WAGO Rail-Mounted Terminal Block Systems

Full Line Catalog, Volume 1 – Edition 2019/2020

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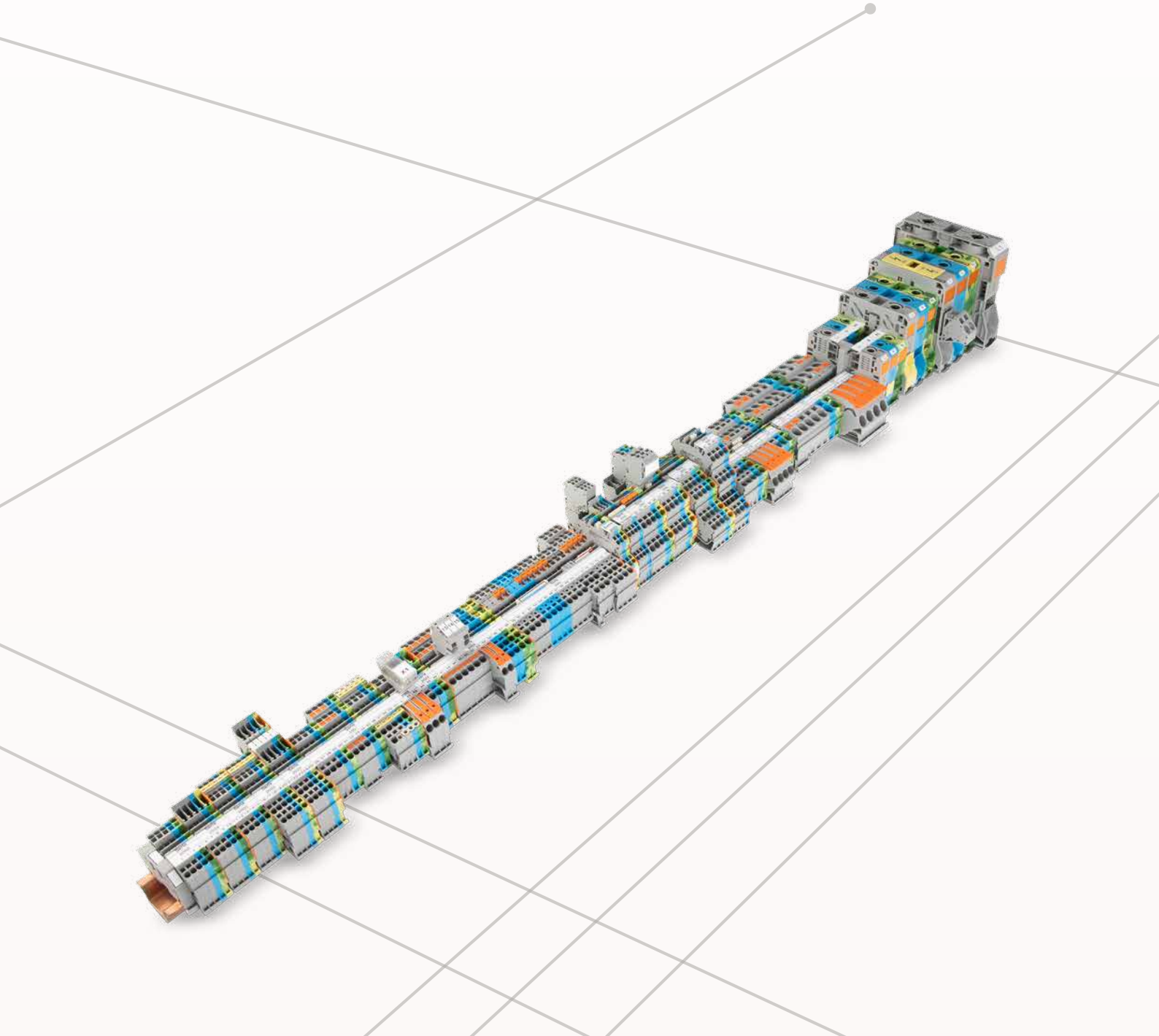

WAGO Full Line Catalogs

Volume 1, WAGO Rail-Mount Terminal Block Systems

- Rail-Mount Terminal Blocks
- Rail-Mount Terminal Blocks with Pluggable Connector (X-COM®-SYSTEM)
- Patchboard Systems
- Terminal Strips
- PUSH WIRE® Connectors for Junction Boxes
- Lighting Connectors
- Shield Connecting System

Volume 2, WAGO PCB Terminal Blocks and WAGO Connectors

- PCB Terminal Blocks
- THR/SMD PCB Terminal Blocks
- *MULTI CONNECTION SYSTEM (MCS)*
- Pluggable PCB Terminal Blocks
- Feedthrough Terminal Blocks
- Specialty Connectors
- Empty Housings

Volume 3, Automation Technology

- Solutions & Software
- Operating & Monitoring
- Controllers
- Modular I/O-SYSTEM, IP20
- Industrial Switches
- Radio Technology
- IP67 Sensor/Actuator Boxes, IP67 Cables and Connectors

Volume 4, WAGO Interface Electronic

- Relay and Optocoupler Modules
- Signal Conditioners and Isolation Amplifiers
- Current and Energy Measurement Technology
- Power Supplies
- Interface Modules and System Wiring
- Overvoltage Protection
- Empty Housings

Volume 5, WAGO Pluggable Connection System *WINSTA*®

- Pluggable Connectors
- Snap-In Device Connectors
- Pluggable PCB Connectors
- Distribution Connectors
- Cable Assemblies
- Flat Cable Systems
- Distribution Boxes

Volume 6, WAGO Marking

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- Terminal Block Marking
- Cable and Conductor Marking
- Device Marking
- Marker Carriers

Volume 1, WAGO Rail-Mount Terminal Block Systems

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	WAGO Rail-Mount Terminal Blocks with a Pluggable Connector X-COM®S-SYSTEM Front-Entry Wiring	Push-in CAGE CLAMP® 1 … 2.5 (4) mm² / 16 … 12 AWG for DIN-35 rail	161	2
	WAGO Installation Rail-Mount Terminal Blocks TOPJOB® S Front-Entry Wiring	Push-in CAGE CLAMP® 1 … 4 (6) mm² / 16 … 10 AWG for DIN-35 rail	199	3
	WAGO High-Current Rail-Mount Terminal Blocks Side-Entry Wiring	POWER CAGE CLAMP 35 … 185 mm² / 2 AWG … 350 kcmil, 1500 V nominal voltage, for DIN-35 rail	217	4
	WAGO Rail-Mount Terminal Blocks "Classic" **WAGO Installation Rail-Mount Terminal Blocks TOPJOB® "Classic"** Front-Entry Wiring	CAGE CLAMP® 1.5 … 35 mm² / 16 … 2 AWG for DIN-35 rail	231	5
	WAGO Rail-Mount Terminal Blocks with a Pluggable Connector **X-COM®-SYSTEM** Front-Entry Wiring	CAGE CLAMP® 2.5 (4) mm² / 12 AWG for DIN-35 rail	351	6
	WAGO Rail-Mount Terminal Blocks "Mini" **WAGO Rail-Mount Terminal Blocks "Compact"** Front-Entry Wiring	CAGE CLAMP® 2.5 mm² (4 mm²) / 12 AWG for DIN-35 and DIN-15 rails	423	7
	WAGO Modular Terminal Blocks and **WAGO Terminal Strips** Side-/Front-Entry Wiring	CAGE CLAMP® 1.5 … 4 mm² / 16 … 12 AWG for panel mounting	447	8
	WAGO Chassis-Mount Terminal Strips **WAGO Field-Wiring Terminal Blocks** Side-Entry Wiring	Push-in CAGE CLAMP® 2.5 mm² / 22 AWG, 4 mm² / 12 AWG for panel mounting	477	9
	WAGO Rail-Mount Terminal Blocks "Classic" Side-Entry Wiring	CAGE CLAMP® 1.5 … 16 mm² / 16 … 6 AWG for DIN-35 rail	499	10
	WAGO Patchboard Systems **WAGO Busbar Terminal Blocks**	CAGE CLAMP® 1.5 … 16 mm² / 16 … 6 AWG	511	11
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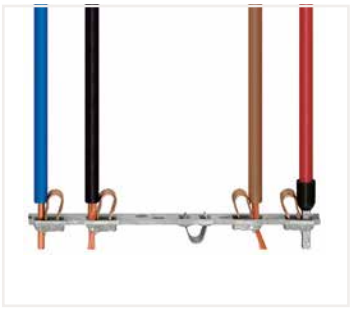
Operating WAGO Connection Technologies

Please follow the applicable product-specific termination instructions.

PUSH-IN CAGE CLAMP®



The universal connection with an additional advantage: Push-in connection
Terminate solid and stranded (Class B 7 strands or less), as well as ferruled conductors, by simply pushing them in – no tools required.

Termination for all conductor types:
- Open clamping unit.
- Insert the conductor.
- Release clamp – done!

Push-in CAGE CLAMP® terminates the following copper conductors:
solid

stranded

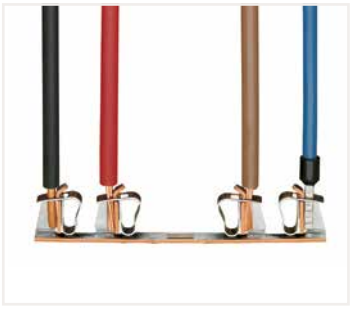
fine-stranded, also with tinned single strands

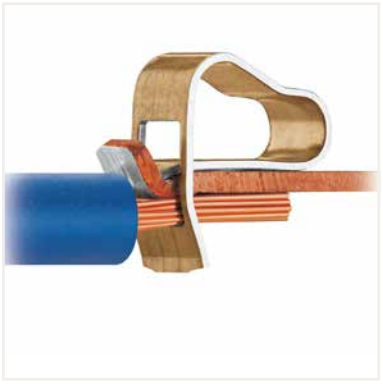
fine-stranded, tip-bonded

fine-stranded, with ferrule (gastight crimped)

fine-stranded, with pin terminal (gastight crimped)

CAGE CLAMP®





The universal connection for solid, stranded and fine-stranded conductors

Termination:
- Open clamping unit.
- Insert the conductor.
- Release clamp – done!

CAGE CLAMP® terminates the following copper conductors:
solid

stranded

fine-stranded, also with tinned single strands

fine-stranded, tip-bonded

fine-stranded, with ferrule (gastight crimped)

fine-stranded, with pin terminal (gastight crimped)

Operating WAGO Connection Technologies

Please follow the applicable product-specific termination instructions.

POWER CAGE CLAMP®

POWER CAGE CLAMP terminates the following copper conductors: solid

stranded

fine-stranded, also with tinned single strands

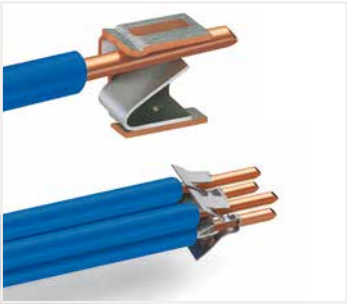
fine-stranded, with ferrule (gastight crimped)

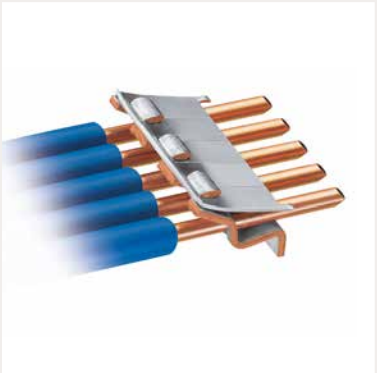
The universal connection for conductors larger than 35 mm² (2 AWG)

Termination:

- Open clamp by turning a T-wrench counter-clockwise.
- Press the integrated latch to open clamping unit for hands-free wiring.
- Insert the conductor.
- A small counter-clockwise rotation closes the clamp, securing conductor.

PUSH WIRE®





PUSH WIRE® terminates the following copper conductors: solid

PUSH WIRE® connection for solid and stranded conductors (depending on the model used)

Termination:
Tool-free, twist-free terminations for solid and rigid stranded conductors – simply push into the unit.

Product Overview

WAGO Rail-Mount Terminal Blocks TOPJOB® S; with Push-in CAGE CLAMP® Connection

Through terminal blocks; with lever and Push-in CAGE CLAMP®

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Ground conductor terminal blocks; with lever and Push-in CAGE CLAMP®

Page 26

Through terminal blocks; with lever and push-button

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WAGO Rail-Mount Terminal Blocks TOPJOB® S; with Push-in CAGE CLAMP® Connection

Ground conductor terminal blocks; with lever and push-button

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Through terminal blocks; with push-button

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Ground conductor terminal blocks; with push-button

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WAGO Rail-Mount Terminal Blocks TOPJOB® S; with Push-in CAGE CLAMP® Connection

Through terminal blocks

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Ground conductor terminal blocks

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Shield terminal blocks

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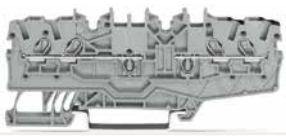
WAGO Rail-Mount Terminal Blocks TOPJOB® S; with Push-in CAGE CLAMP® Connection

Double-potential terminal blocks



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Double-deck terminal blocks

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Double-deck disconnect terminal blocks

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Product Overview

WAGO Rail-Mount Terminal Blocks TOPJOB® S; with Push-in CAGE CLAMP® Connection

Double-deck carrier terminal blocks

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Double-deck fuse terminal blocks

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Triple-deck terminal blocks

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WAGO Rail-Mount Terminal Blocks TOPJOB® S; with Push-in CAGE CLAMP® Connection

Quadruple-deck rail-mount terminal blocks as rail-mount terminal blocks for electric motor wiring

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Disconnect and test terminal blocks

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Disconnect/test terminal blocks; for current and voltage transformer circuits

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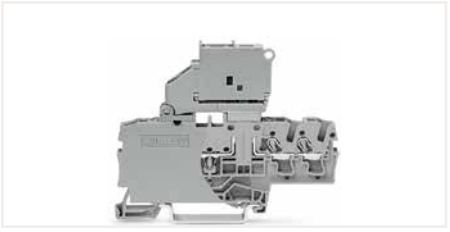
WAGO Rail-Mount Terminal Blocks TOPJOB® S; with Push-in CAGE CLAMP® Connection

Fuse terminal blocks for mini-automotive blade-style fuses

Page 88

Fused disconnect terminal blocks with a pivoting fuse holder for glass cartridge fuses



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Fuse plugs and carrier terminal blocks

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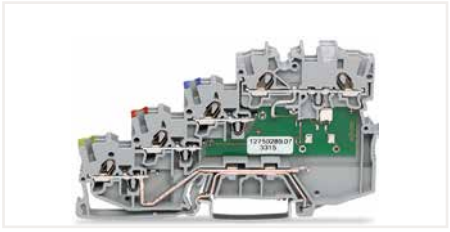
WAGO Rail-Mount Terminal Blocks TOPJOB® S; with Push-in CAGE CLAMP® Connection

Sensor terminal blocks



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Actuator terminal blocks

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Sensor and actuator supply terminal blocks

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Product Overview

WAGO Rail-Mount Terminal Blocks TOPJOB® S; with Push-in CAGE CLAMP® Connection

Sensor terminal blocks; with a pluggable signal level

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Actuator terminal blocks; with a pluggable signal level

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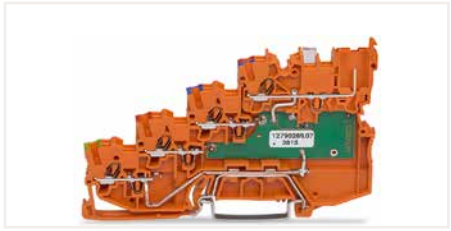
Sensor and actuator supply terminal blocks; with a pluggable signal level



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WAGO Rail-Mount Terminal Blocks TOPJOB® S; with Push-in CAGE CLAMP® Connection

Diode terminal blocks

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LED terminal blocks

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Multilevel diode and LED terminal blocks

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WAGO Rail-Mount Terminal Blocks TOPJOB® S; with Push-in CAGE CLAMP® Connection

Diode modules

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LED modules

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Empty component plug housings

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WAGO Rail-Mount Terminal Blocks TOPJOB® S; with Push-in CAGE CLAMP® Connection

Component plugs

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WAGO Rail-Mount Terminal Blocks with a Pluggable Connector, X-COM®S-SYSTEM-MINI

Carrier terminal blocks

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Ground carrier terminal blocks

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Double-deck carrier terminal blocks

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WAGO Rail-Mount Terminal Blocks with a Pluggable Connector, X-COM®S-SYSTEM-MINI

1-conductor female plugs

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2-conductor female plugs

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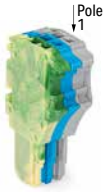
Pre-assembled female plugs



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WAGO Rail-Mount Terminal Blocks with a Pluggable Connector, X-COM®S-SYSTEM-MINI

Female plugs for self-assembly

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1-conductor female plugs; with locking levers and strain relief plates

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2-conductor female plugs; with locking levers and strain relief plates

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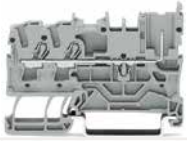
WAGO Rail-Mount Terminal Blocks with a Pluggable Connector, X-COM®S-SYSTEM

Carrier terminal blocks



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Ground carrier terminal blocks

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Double-deck carrier terminal blocks

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Product Overview

WAGO Rail-Mount Terminal Blocks with a Pluggable Connector, X-COM®S-SYSTEM

Female plugs

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Pre-assembled female plugs

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Female plugs for self-assembly

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WAGO Rail-Mount Terminal Blocks with a Pluggable Connector, X-COM®S-SYSTEM

Female plugs; with locking levers and strain relief plates

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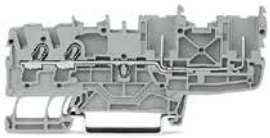
WAGO Rail-Mount Terminal Blocks with a Pluggable Connector, X-COM®S-SYSTEM; for Ex applications

Carrier terminal blocks; for Ex nA applications



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Ground carrier terminal blocks; for Ex nA applications

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WAGO Rail-Mount Terminal Blocks with a Pluggable Connector, X-COM®S-SYSTEM; for Ex applications

Double-deck carrier terminal blocks; for Ex nA applications

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Female plugs; for Ex nA applications

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Pre-assembled female plugs; for Ex nA applications

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WAGO Installation Rail-Mount Terminal Blocks TOPJOB® S; with Push-in CAGE CLAMP® Connection

Multilevel installation terminal blocks; with an N-disconnect slide link; 2.5 (4) mm²

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Multilevel installation terminal blocks; with an internal N-disconnection

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Double-fuse plugs

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Product Overview

WAGO Installation Rail-Mount Terminal Blocks TOPJOB® S; with Push-in CAGE CLAMP® Connection

Multilevel installation terminal blocks; with an N-disconnect slide link; 4 (6) mm² (10 AWG)

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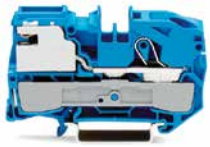
N-conductor disconnect terminal blocks and power distribution disconnect terminal blocks



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Supply terminal blocks for distribution boxes

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WAGO High-Current Rail-Mount Terminal Blocks

Through terminal blocks; 35 mm² (2 AWG)

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Ground conductor terminal blocks; 35 mm² (2 AWG)

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Power taps; for high-current terminal blocks 35 mm² (2 AWG)

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WAGO High-Current Rail-Mount Terminal Blocks

Through terminal blocks; 50 mm² (1/0 AWG)

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Ground conductor terminal blocks; 50 mm² (1/0 AWG)

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Power taps; for high-current terminal blocks 50 mm² (1/0 AWG)

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WAGO High-Current Rail-Mount Terminal Blocks

Through terminal blocks with mounting flanges; 50 mm² (1/0 AWG)

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Through terminal blocks with mounting flanges; 50 mm² (1/0 AWG)

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WAGO High-Current Rail-Mount Terminal Blocks

Through terminal blocks; 95 mm² (4/0 AWG)

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Ground conductor terminal blocks; 95 mm² (4/0 AWG)

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Power taps; for high-current terminal blocks 95 mm² (4/0 AWG)

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WAGO High-Current Rail-Mount Terminal Blocks

Through terminal blocks with mounting flanges; 95 mm² (4/0 AWG)

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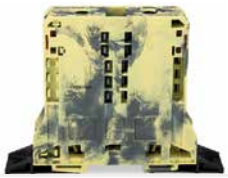
Through terminal blocks with mounting flanges; 95 mm² (4/0 AWG)



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WAGO High-Current Rail-Mount Terminal Blocks

Through terminal blocks; 185 mm² (350 kcmil)

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Ground conductor terminal blocks; 185 mm² (350 kcmil)

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Power taps; for high-current terminal blocks 185 mm² (350 kcmil)

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WAGO High-Current Rail-Mount Terminal Blocks

Through terminal blocks with mounting flanges; 185 mm² (350 kcmil)

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Through terminal blocks with mounting flanges; 185 mm² (350 kcmil)

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WAGO Rail-Mount Terminal Blocks, Classic; with CAGE CLAMP® Connection
Front-Entry Wiring

Through terminal blocks

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Ground conductor terminal blocks

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Shield terminal blocks

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WAGO Rail-Mount Terminal Blocks, Classic; with CAGE CLAMP® Connection
Front-Entry Wiring

Double-potential terminal blocks

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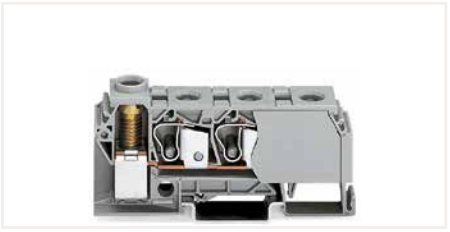
Distribution terminal blocks



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Double-deck terminal blocks

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WAGO Rail-Mount Terminal Blocks, Classic; with CAGE CLAMP® Connection
Front-Entry Wiring

Triple-deck terminal blocks

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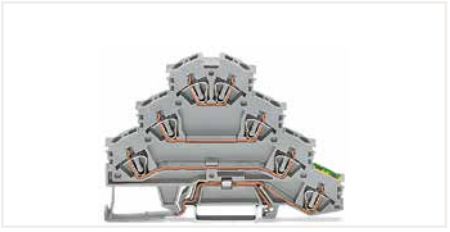
Quadruple-deck rail-mount terminal blocks as rail-mount terminal blocks for electric motor wiring



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Disconnect and test terminal blocks

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WAGO Rail-Mount Terminal Blocks, Classic; with CAGE CLAMP® Connection
Front-Entry Wiring

Disconnect and test terminal blocks

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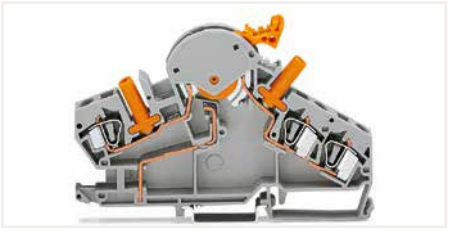
Disconnect/test terminal blocks; for current and voltage transformer circuits



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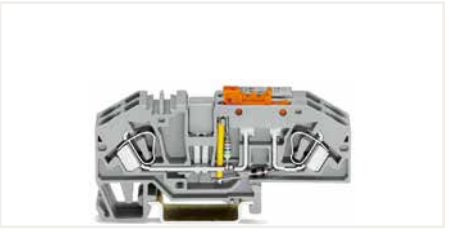
Ground conductor disconnect terminal blocks



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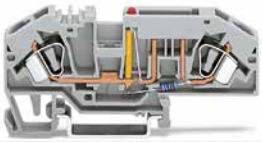
Product Overview

WAGO Rail-Mount Terminal Blocks, Classic; with CAGE CLAMP® Connection
Front-Entry Wiring

Fuse terminal blocks for mini-automotive blade-style fuses



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Fused disconnect terminal blocks with a pivoting fuse holder for glass cartridge fuses

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Fuse terminal blocks; for Class CC fuses and 10 x 38 mm (13⁄32" x 1½") cylindrical fuses

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WAGO Rail-Mount Terminal Blocks, Classic; with CAGE CLAMP® Connection
Front-Entry Wiring

Fuse plugs and carrier terminal blocks

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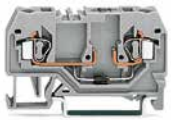
Diode terminal blocks



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LED terminal blocks

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WAGO Rail-Mount Terminal Blocks, Classic; with CAGE CLAMP® Connection
Front-Entry Wiring

Diode modules

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LED modules

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Sensor and actuator terminal blocks

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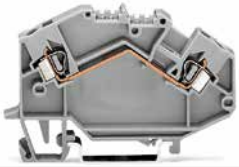
WAGO Rail-Mount Terminal Blocks, TOPJOB® Classic; with CAGE CLAMP® Connection

Through terminal blocks



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Ground conductor terminal blocks

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N-conductor disconnect terminal blocks and power distribution disconnect terminal blocks

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Product Overview

WAGO Rail-Mount Terminal Blocks with a Pluggable Connector, X-COM®-SYSTEM

Carrier terminal blocks

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Ground carrier terminal blocks

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Disconnect carrier terminal blocks

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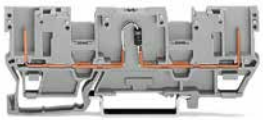
WAGO Rail-Mount Terminal Blocks with a Pluggable Connector, X-COM®-SYSTEM

Diode carrier terminal blocks



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LED carrier terminal blocks

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Carrier terminal blocks; for pluggable modules

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WAGO Rail-Mount Terminal Blocks with a Pluggable Connector, X-COM®-SYSTEM

Double-deck carrier terminal blocks

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Male connectors; with CAGE CLAMP® connection

Page 398

Male headers; with solder pins

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WAGO Rail-Mount Terminal Blocks with a Pluggable Connector, X-COM®-SYSTEM

Female plugs; with/without lateral locking lever

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Female plugs for self-assembly

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Pre-assembled female plugs

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Product Overview

WAGO Rail-Mount Terminal Blocks, Mini; with CAGE CLAMP® Connection

Through terminal blocks; for DIN-35 rail

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Ground conductor terminal blocks; for DIN-35 rail

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Through terminal blocks Ex e II; for DIN-15 rail

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WAGO Rail-Mount Terminal Blocks, Mini; with CAGE CLAMP® Connection

Through terminal blocks; for DIN-15 rail

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Ground conductor terminal blocks; for DIN-15 rail

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Through terminal blocks Ex e II; for DIN-15 rail

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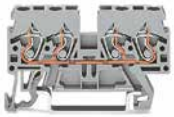
WAGO Rail-Mount Terminal Blocks, Compact; with CAGE CLAMP COMPACT Connection

Through terminal blocks; for DIN-35 rail



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Ground conductor terminal blocks; for DIN-35 rail

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Through terminal blocks Ex e II; for DIN-15 rail

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WAGO Rail-Mount Terminal Blocks, Compact; with CAGE CLAMP COMPACT Connection

Through terminal blocks; for DIN-15 rail

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Ground conductor terminal blocks; for DIN-15 rail

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Through terminal blocks Ex e II; for DIN-15 rail

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Product Overview

WAGO Rail-Mount Terminal Blocks, Compact; with CAGE CLAMP COMPACT Connection

Double-potential terminal blocks

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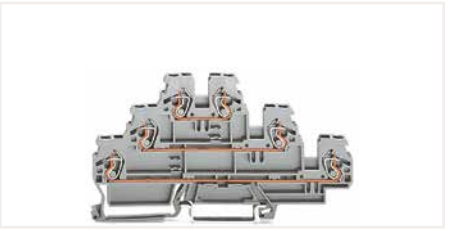
Double-deck terminal blocks

Page 432

Triple-deck terminal blocks



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WAGO Rail-Mount Terminal Blocks, Compact; with CAGE CLAMP COMPACT Connection

Multilevel diode and LED terminal blocks

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Pluggable tap-off modules

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Sensor and actuator terminal blocks

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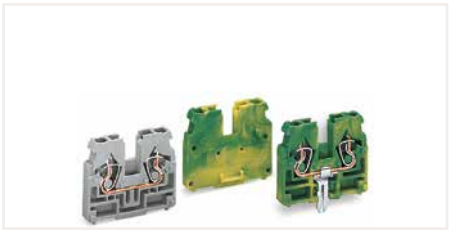
WAGO Modular Terminal Blocks and WAGO Terminal Strips

Modular terminal blocks



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Terminal strips; with mounting flanges

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Terminal strips; with snap-in mounting feet

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WAGO Modular Terminal Blocks and WAGO Terminal Strips

Modular terminal blocks

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Terminal strips; with mounting flanges

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Terminal strips; with snap-in mounting feet

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Product Overview

WAGO Modular Terminal Blocks and WAGO Terminal Strips

Modular terminal blocks

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Terminal strips; with mounting flanges

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Terminal strips; with snap-in mounting feet

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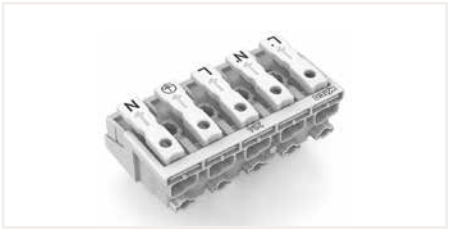
WAGO Chassis-Mount Terminal Strips
WAGO Field-Wiring Terminal Blocks

4-conductor chassis-mount terminal strips

Page 480

Field-wiring terminal blocks



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WAGO Rail-Mount Terminal Blocks, Classic; with CAGE CLAMP® Connection
Side-Entry Wiring

Through terminal blocks

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Ground conductor terminal blocks

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Disconnect and test terminal blocks

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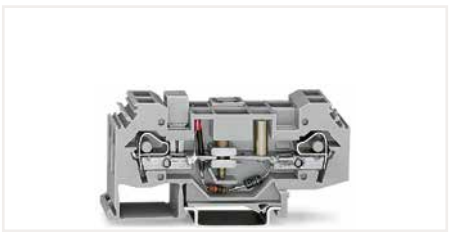
WAGO Rail-Mount Terminal Blocks, Classic; with CAGE CLAMP® Connection
Side-Entry Wiring

Ground conductor disconnect terminal blocks



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Fused disconnect terminal blocks; for glass cartridge fuses

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Product Overview

WAGO Patchboard Systems

Matrix patchboards

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Matrix patchboards; with push-buttons

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Additional modules

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WAGO Patchboard Systems

Terminal blocks for matrix patching

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Common potential terminal blocks

Page 527

3-conductor, double-potential terminal blocks or terminal blocks for matrix patching

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WAGO Busbar Terminal Blocks

Busbar terminal blocks

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Ground busbar terminal blocks

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Insulated busbar carriers

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WAGO PUSH WIRE® Connectors for Junction Boxes

COMPACT PUSH WIRE® connector for junction boxes

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COMPACT PUSH WIRE® connector for junction boxes

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Mounting carriers

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Product Overview

WAGO PUSH WIRE® Connectors for Junction Boxes

PUSH WIRE® connectors for junction boxes

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Ex PUSH WIRE® connectors for junction boxes

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Mounting carriers

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WAGO PUSH WIRE® Connectors for Junction Boxes

MICRO PUSH WIRE® connectors for junction boxes

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MICRO PUSH WIRE® connectors for junction boxes

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Mounting carriers

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WAGO Splicing Connectors for All Conductor Types

COMPACT splicing connectors for all conductor types; 4 mm²/12 AWG

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Mounting carriers

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Mounting carrier; for 4 mm²/12 AWG single connectors

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WAGO Splicing Connectors for All Conductor Types

COMPACT splicing connectors for all conductor types; 6 mm²/10 AWG

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Mounting carriers

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Product Overview

WAGO Splicing Connectors for All Conductor Types

CLASSIC splicing connectors for all conductor types

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Mounting carriers

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WAGO Lighting Connectors

Lighting connectors

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Lighting connectors

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“Service” connectors

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WAGO Splicing Connector Set

Vario-T-BOXX

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L-BOXX® 102

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Splicing connector sets

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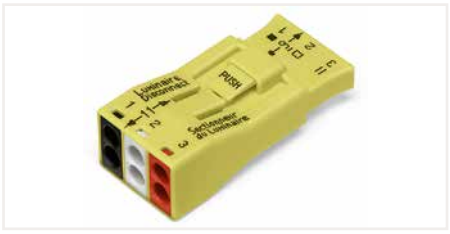
WAGO Lighting Connectors

Luminaire disconnect connectors



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Product Overview

WAGO Shield Connection System

Shield clamping saddles

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Shield clamping saddles

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Busbar carriers

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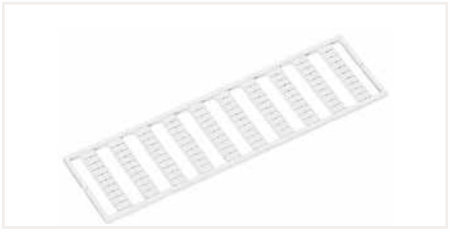
WAGO Marking Systems

Marker cards



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WMB Inline markers

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Marking strips

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WAGO Marking Systems

Marker carriers

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Marker carriers

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Marking cards; self-adhesive marking strips; with marking

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WAGO Mounting Accessories

Screwless end stops

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DIN-35 rails

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Collective jumper carriers

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Product Overview

WAGO Mounting Accessories

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Screwless end stops

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DIN-15 rails

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WAGO Tools

Operating tools

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Operating tools

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Operating tools

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WAGO Tools

Cable cutter

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Cable stripper

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Wire strippers

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WAGO Tools

Crimping tools

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Ferrules

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Measurement devices

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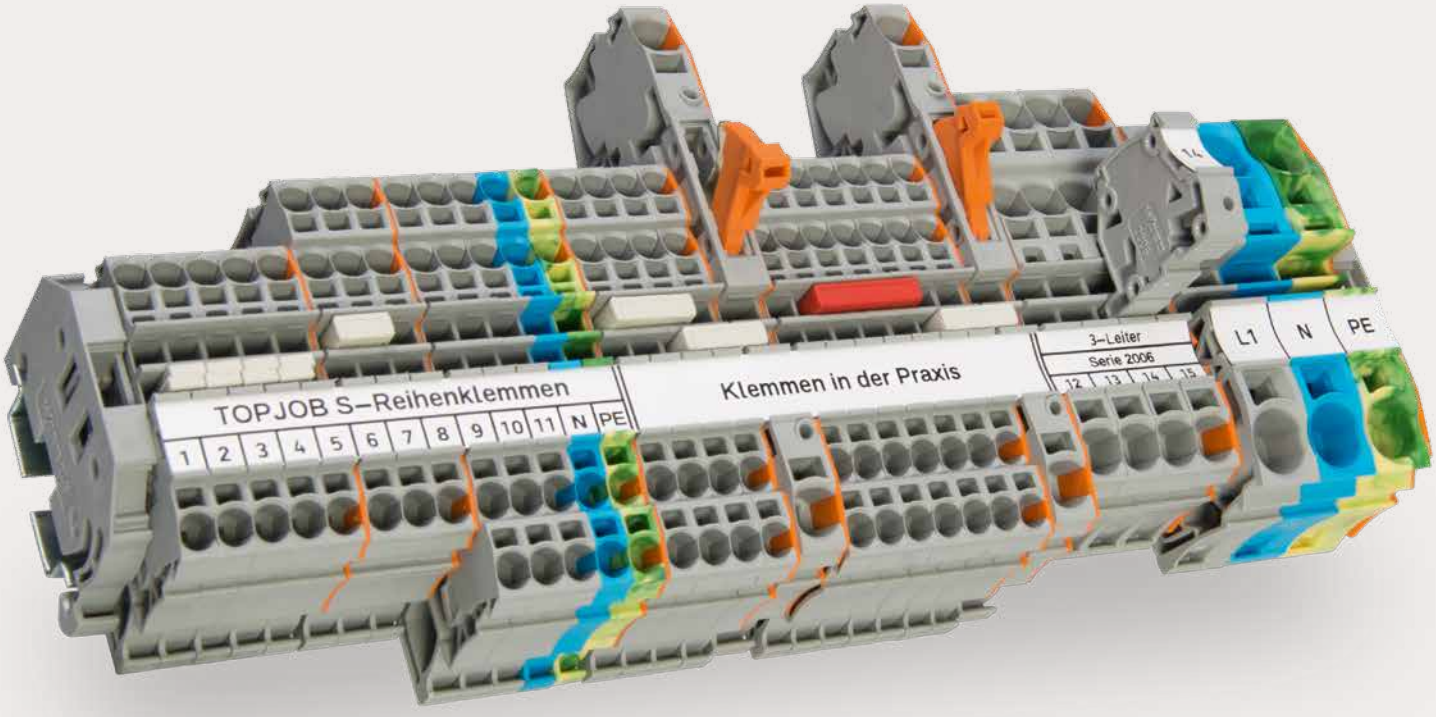
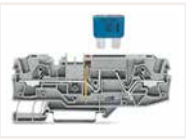


WAGO Rail-Mount Terminal Blocks TOPJOB® S

PUSH-IN CAGE CLAMP®

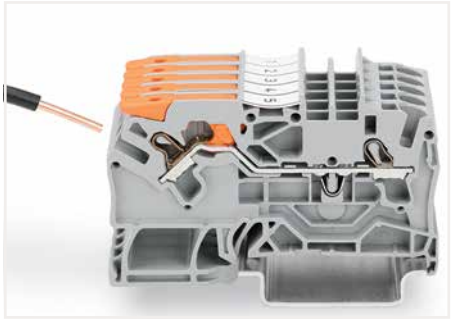
WAGO Rail-Mount Terminal Blocks TOPJOB® S
Front-Entry Wiring

			Page
	Through and Ground Conductor Terminal Blocks; with Levers and Push-in CAGE CLAMP®	2102/2106/2116 Series	26
	Through and Ground Conductor Terminal Blocks; with Levers and Push-Buttons 0.25 … 16 (25 “f-st”) mm² (22 … 4 AWG)	2102/2106/2116 Series	29
	Through and Ground Conductor Terminal Blocks; with Push-Buttons 0.14 … 16 (25 “f-st”) mm² (24 … 4 AWG)	2200 … 2216 Series	32
	Through, Ground Conductor, Shield Conductor and Ex Terminal Blocks 0.14 … 16 (25 “f-st”) mm² (24 … 4 AWG)	2000 … 2016 Series	46
	Multilevel Rail-Mount Terminal Blocks 1 (1.5) mm² (16 AWG) and 2.5 (4) mm² (12 AWG)	2000/2002 Series	60
	Disconnect/Test, Fuse and Through Terminal Blocks of Same Profile 0.25 … 2.5 (4) mm² (22 … 12 AWG)	2002 Series	80
	Fused Disconnect Terminal Blocks with a Pivoting Fuse Holder 0.25 … 2.5 (4) mm² (22 … 12 AWG)	2002 Series	90
	**Disconnect, Ground Conductor Disconnect and Fuse Terminal Blocks** 0.5 … 6 (10) mm² (20 … 8 AWG)	2006 Series	100
	Disconnect/Test Terminal Blocks; for Current and Voltage Transformer Circuits 0.5 … 6 (10) mm² (20 … 8 AWG)	2007 Series	110
	Fuse Plugs on Carrier Terminal Blocks	2004/2006 Series	114
	Sensor and Actuator Terminal Blocks 0.14 … 1 (1.5) mm² (24 … 16 AWG)	2000/2020 Series	120
	Diode and LED Terminal Blocks 0.25 … 4 (6) mm² (22 … 10 AWG)	2001/2002/2004 Series	128
	Multilevel Diode and LED Terminal Blocks 0.25 … 2.5 (4) mm² (22 … 12 AWG)	2002 Series	134
	Diode, LED Modules and Empty Component Plugs Housing	2002 Series	138
	Accessories for Rail-Mount Terminal Blocks TOPJOB® S		146

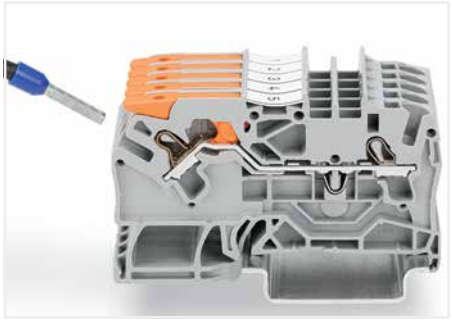
1

Rail-Mount Terminal Blocks TOPJOB® S; with Levers and Push-in CAGE CLAMP® 2102, 2106 and 2116 Series

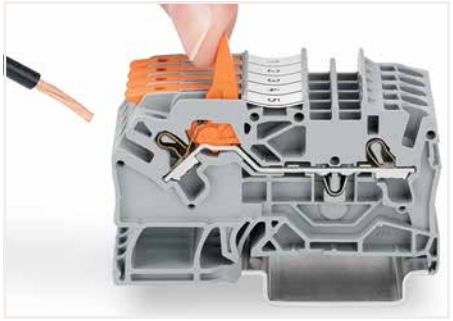
Description and Installation



Push-in termination of solid conductors



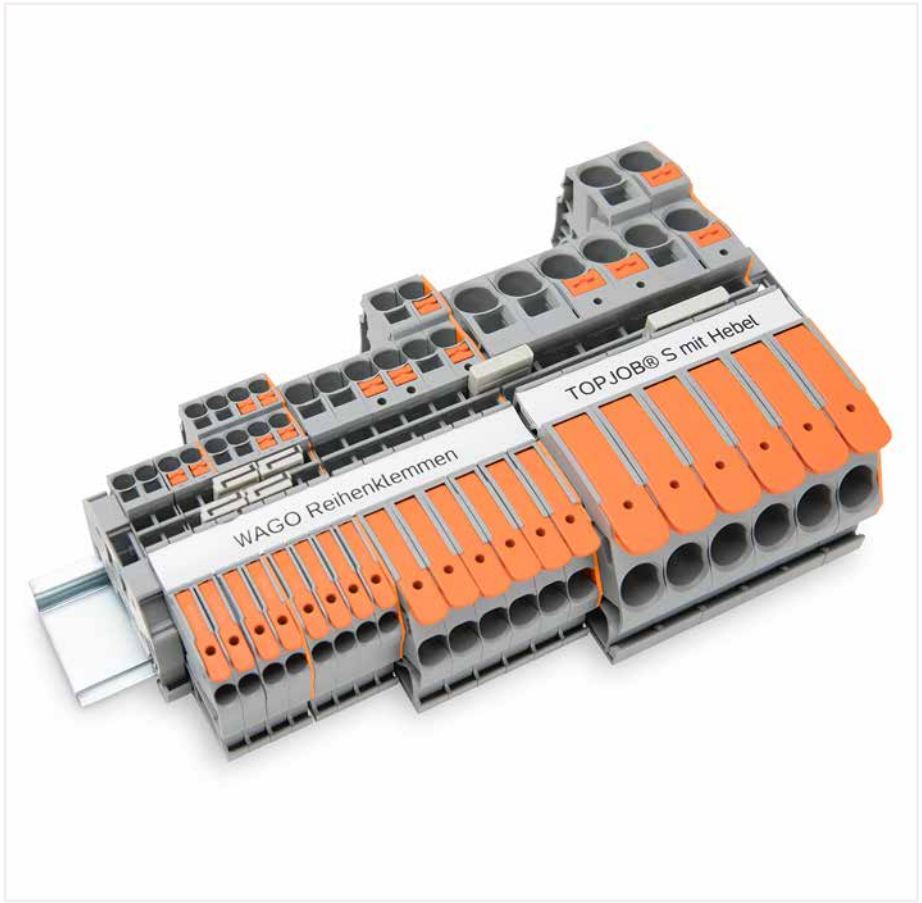
Push-in termination of fine-stranded conductors with ferrules

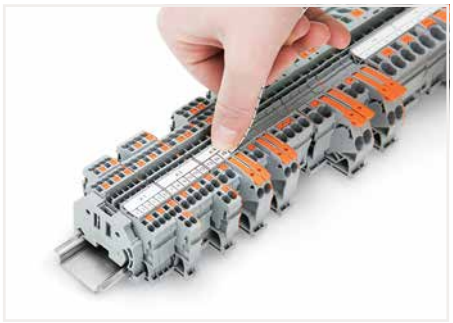


Pull the lever up until it stops, then connect the fine-stranded conductor.

Push the lever back down – done!

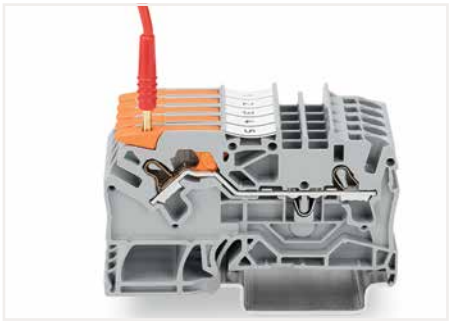
Insert push-in type jumper bar and push down until it hits backstop.





Snapping a marking strip into the marker slot.

Snapping a marking strip into the marker slot.



Testing with a 2 mm Ø test plug (max. 42 V).

Push-in CAGE CLAMP® terminates the following copper conductors:
solid

stranded

fine-stranded, also with tinned single strands

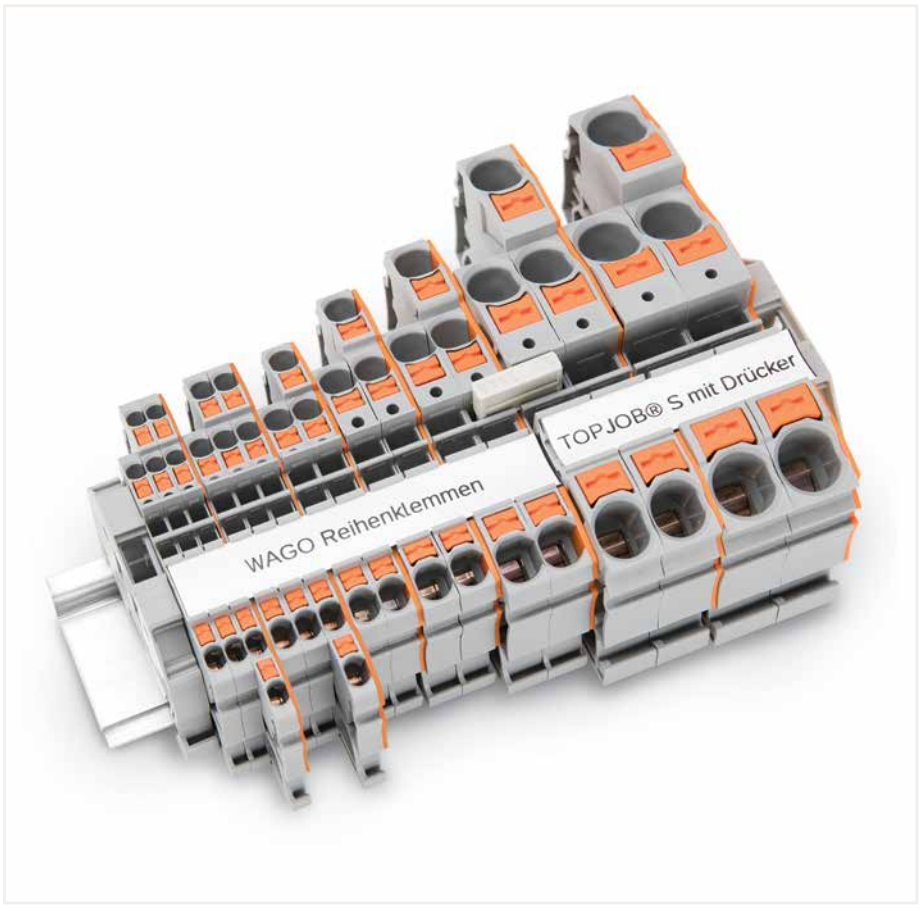
PUSH-IN CAGE CLAMP®

Rail-Mount Terminal Blocks TOPJOB® S; with Push-Buttons and Push-in CAGE CLAMP®
2200 to 2216 Series
Description and Installation

Push-in termination of solid and ferruled conductors

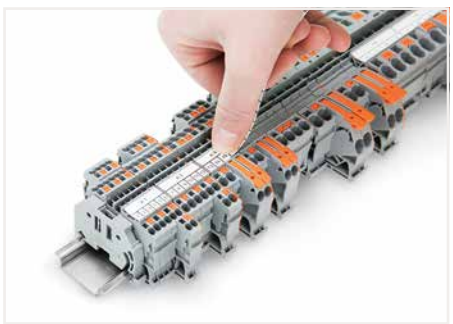
Insert fine-stranded conductors via operating tool.

Removing all conductors via operating tool.



Insert push-in type jumper bar and push down until it hits backstop.

Commoning with step-down jumpers.


Snapping a marking strip into the marker slot.

Snapping a marking strip into the marker slot.

Testing with a 2 mm Ø test plug (max. 42 V).

fine-stranded, tip-bonded

fine-stranded, with ferrule (gastight crimped)

fine-stranded, with pin terminal (gastight crimped)

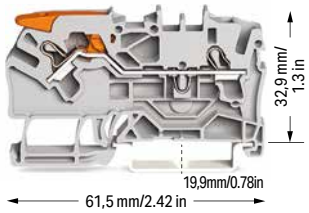
PUSH-IN CAGE CLAMP®

Through and Ground Conductor Terminal Block TOPJOB® S; with Lever and Push-in CAGE CLAMP®

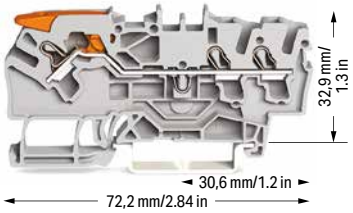
2.5 (4) mm²; 2102 Series

1

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
800 V/8 kV/3 ❷	
I_N 24 A (32 A)	
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
800 V/8 kV/3 ❷	
I_N 24 A (30 A)	
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



❶ Conductor range: 0.25 … 4 mm² "s+f-st"; Push-in termination: 1 … 4 mm² "s" and 1 … 2.5 mm² "insulated ferrules, 12 mm" Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 800 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

❸ Terminal blocks with a blue insulated housing are suitable for Ex i applications.

Please observe the application notes:
Jumpers, from page 152
Testing accessories, from page 146
Marking, from page 588

Approvals and corresponding ratings, visit www.wago.com

2-conductor through terminal block; with lever and Push-in CAGE CLAMP®

Color	Item No.	Pack. Unit
gray	2102-1201	50
blue	2102-1204 ❸	50

3-conductor through terminal block; with lever and Push-in CAGE CLAMP®

Color	Item No.	Pack. Unit
gray	2102-1301	50
blue	2102-1304 ❸	50

2-conductor ground terminal block; with lever and Push-in CAGE CLAMP®

green-yellow	2102-1207	50

3-conductor ground terminal block; with lever and Push-in CAGE CLAMP®

green-yellow	2102-1307	50

Accessories; item-specific

End and intermediate plate; 0.8 mm thick

orange	2102-1292	100 (25)
gray	2102-1291	100 (25)

Accessories; item-specific

End and intermediate plate; 0.8 mm thick

orange	2102-1392	100 (25)
gray	2102-1391	100 (25)

Accessories; 2102 Series

Appropriate marking systems: WMB/WMB Inline/Marking strips

Insulation stop; 5 pcs/strip; 0.25 … 0.5 mm²

light gray	2002-171	200 (25)

Insulation stop; 5 pcs/strip; 0.75 … 1 mm²

dark gray	2002-172	200 (25)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks

yellow	2002-115	100 (25)

Push-in type jumper bar; insulated; I_N 25 A; light gray

2-way	2002-402	25
3-way	2002-403	25
4-way	2002-404	25
5-way	2002-405	25
6-way	2002-406	25
7-way	2002-407	25
8-way	2002-408	25
9-way	2002-409	25
10-way	2002-410	25

Delta jumper; insulated; I_N = I_N terminal block; light gray

1-2 3-4 5-6	2002-406/020-000	25

Star point jumper; insulated; I_N = I_N terminal block; light gray

1-3-5	2002-405/011-000	25

Push-in type jumper bar; insulated; I_N 25 A; light gray

1 to 3	2002-433	25
1 to 4	2002-434	25
1 to 5	2002-435	25
1 to 6	2002-436	25
1 to 7	2002-437	25
1 to 8	2002-438	25
1 to 9	2002-439	25
1 to 10	2002-440	25

Adjacent jumper for continuous commoning; insulated; I_N 25 A, light gray

2-way	2002-400	25

Adjacent jumper for continuous commoning; insulated; I_N 25 A; 1 to 3

light gray	2002-423	25
red	2002-423/000-005	25
blue	2002-423/000-006	25

Adjacent jumper for continuous commoning; insulated; I_N 25 A, light gray

5-way	2002-415	25

Push-in type wire jumper; insulated; 1.5 mm² conductor cross-section; I_N 18 A

L = 60 mm	2009-412	100 (10)
L = 110 mm	2009-414	100 (10)
L = 250 mm	2009-416	100 (10)

Accessories; 2102 Series

Appropriate marking systems: WMB/WMB Inline/Marking strips

Staggered jumper; insulated; I_N 25 A; light gray

2-way	2002-472	25
3-way	2002-473	25
4-way	2002-474	25
5-way	2002-475	25
6-way	2002-476	25
7-way	2002-477	25
8-way	2002-478	25
9-way	2002-479	25
10-way	2002-480	25
11-way	2002-481	25
12-way	2002-482	25

Customized staggered jumper; insulated; with contact lugs broken off at the factory and circuit printing; I_N 25 A; light gray

1-3	2002-473/011-000	25
1-3-5	2002-475/011-000	25
1-3-5-7	2002-477/011-000	25
1-3-5-7-9	2002-479/011-000	25
1-3-5-7-9-11	2002-481/011-000	25

Modular connector; snaps together; for jumper contact slot

gray	2002-511	100 (25)

L-type test plug module; snaps together

gray	2002-611	100 (25)

WMB Inline, plain; 1,500 WMB markers (5 mm)/reel; 5 … 5.2 mm stretchable

white	2009-115	1

Marking strip; plain; 11 mm wide; 50 m reel

white	2009-110	1

WMB marking card; white; 10 strips with 10 markers/card; 5 … 5.2 mm stretchable

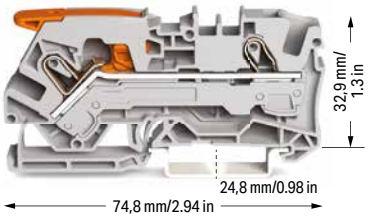
plain	793-5501	5

PUSH-IN CAGE CLAMP®

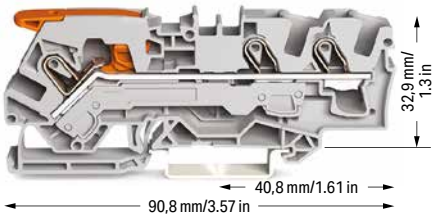
Through and Ground Conductor Terminal Block TOPJOB® S; with Lever and Push-in CAGE CLAMP®

6 (10) mm²; 2106 Series

Technical Data	
0.5 … 6 (10) mm² ❶	20 … 8 AWG
800 V/8 kV/3 ❷	
I_N 41 A (55 A)	
Terminal block width: 7.5 mm / 0.295 inch	
13 … 15 mm / 0.51 … 0.59 inch	



Technical Data	
0.5 … 6 (10) mm² ❶	20 … 8 AWG
800 V/8 kV/3 ❷	
I_N 41 A (55 A)	
Terminal block width: 7.5 mm / 0.295 inch	
13 … 15 mm / 0.51 … 0.59 inch	



❶ Conductor range: 0.5 … 10 mm² “s+f-st”; Push-in termination: 2.5 … 10 mm² “s” and 2.5 … 6 mm² “insulated ferrules; 12 mm” Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 800 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

❸ Terminal blocks with a blue insulated housing are suitable for Ex i applications.

Please observe the application notes:
Jumpers, from page 155
Testing accessories, from page 148
Marking, from page 588

Approvals and corresponding ratings, visit www.wago.com

2-conductor through terminal block; with lever and Push-in CAGE CLAMP®

Color	Item No.	Pack. Unit
gray	2106-1201	25
blue	2106-1204 ❸	25

3-conductor through terminal block; with lever and Push-in CAGE CLAMP®

Color	Item No.	Pack. Unit
gray	2106-1301	25
blue	2106-1304 ❸	25

2-conductor ground terminal block; with lever and Push-in CAGE CLAMP®

green-yellow	2106-1207	25

3-conductor ground terminal block; with lever and Push-in CAGE CLAMP®

green-yellow	2106-1307	25

Accessories; item-specific

End and intermediate plate; 1 mm thick

orange	2106-1292	100 (25)
gray	2106-1291	100 (25)

Accessories; item-specific

End and intermediate plate; 1 mm thick

orange	2106-1392	100 (25)
gray	2106-1391	100 (25)

Accessories; 2106 Series

Appropriate marking systems: WMB/WMB Inline/Marking strips

Push-in type jumper bar; insulated; I_N 41 A; light gray

2-way	2006-402	25
3-way	2006-403	25
4-way	2006-404	25
5-way	2006-405	25

Push-in type jumper bar; insulated; I_N 41 A; light gray

1 to 3	2006-433	25
1 to 4	2006-434	25
1 to 5	2006-435	25

Star point jumper; insulated; I_N = I_N terminal block; light gray

1-3-5	2006-405/011-000	25

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks

yellow	2006-115	100 (25)

Lockout cap; for conductor entry and operating slot

gray	2006-191	25

Modular connector; snaps together; for jumper contact slot

gray	2006-511	50 (25)

Test plug adapter; for 4 mm Ø test plug

gray	2009-174	100 (25)

Marking strip; plain; 11 mm wide; 50 m reel

white	2009-110	1

WMB marking card; white; 10 strips with 10 markers/card; 5 … 5.2 mm stretchable

plain	793-5501	5

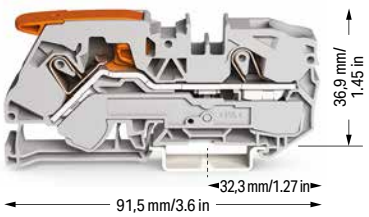
PUSH-IN CAGE CLAMP®

Through and Ground Conductor Terminal Block TOPJOB® S; with Lever and Push-in CAGE CLAMP®

16 (25 “f-st”) mm²; 2102 Series

1

Technical Data	
0.5 … 16 (25 “f-st”) mm² ❶	20 … 4 AWG
800 V/8 kV/3 ❷	
I_N 76 A (90 A)	
Terminal block width: 12 mm / 0.472 inch	
18 … 20 mm / 0.71 … 0.79 inch	

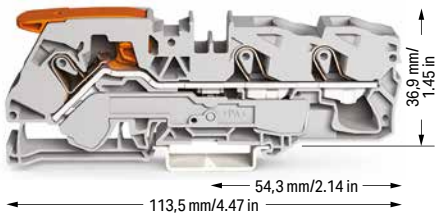


2-conductor through terminal block; with lever and Push-in CAGE CLAMP®		
Color	Item No.	Pack. Unit
gray	2116-1201	20
blue	2116-1204 ❸	20

2-conductor ground terminal block; with lever and Push-in CAGE CLAMP® 15 mm high DIN-35 rails shall be used for a current load higher than 76 A!		
green-yellow	2116-1207	20

Accessories; item-specific			
End and intermediate plate; 1 mm thick			
	orange	2116-1292	100 (25)
	gray	2116-1291	100 (25)

Technical Data	
0.5 … 16 (25 “f-st”) mm² ❶	20 … 4 AWG
800 V/8 kV/3 ❷	
I_N 76 A (90 A)	
Terminal block width: 12 mm / 0.472 inch	
18 … 20 mm / 0.71 … 0.79 inch	



3-conductor through terminal block; with lever and Push-in CAGE CLAMP®		
Color	Item No.	Pack. Unit
gray	2116-1301	20
blue	2116-1304 ❸	20

3-conductor ground terminal block; with lever and Push-in CAGE CLAMP® 15 mm high DIN-35 rails shall be used for a current load higher than 76 A!		
green-yellow	2116-1307	20

Accessories; item-specific			
End and intermediate plate; 1 mm thick			
	orange	2116-1392	100 (25)
	gray	2116-1391	100 (25)

❶ Conductor range: 0.5 … 16 mm² “s+f-st”, 25 mm² “f-st”; Push-in termination: 6 … 16 mm² “s” and 6 … 16 mm² “insulated ferrules; 18 mm” Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 800 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

❸ Terminal blocks with a blue insulated housing are suitable for Ex i applications.

Please observe the application notes:
Jumpers, from page 155
Testing accessories, from page 149
Marking, from page 588

Approvals and corresponding ratings, visit www.wago.com

Accessories; 2116 Series

Appropriate marking systems: WMB/WMB Inline/Marking strips

Push-in type jumper bar; insulated; I_N 41 A; light gray			
	2-way	2016-402	25
	3-way	2016-403	25
	4-way	2016-404	25
	5-way	2016-405	25

Push-in type jumper bar; insulated; I_N 41 A; light gray			
	1 to 3	2016-433	25
	1 to 4	2016-434	25
	1 to 5	2016-435	25

Star point jumper; insulated; I_N = I_N terminal block; light gray			
	1-3-5	2016-405/011-000	25

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks			
	yellow	2016-115	100 (25)

Finger guard; touch-proof cover protects unused conductor entries			
	yellow	2016-100	100 (25)

Modular connector; snaps together; for jumper contact slot			
	gray	2016-511	50 (25)

Test plug adapter; for 4 mm Ø test plug			
	gray	2009-174	100 (25)

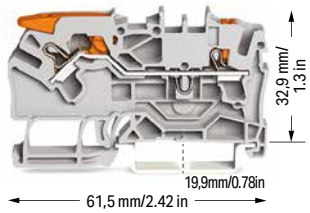
Marking strip; plain; 11 mm wide; 50 m reel			
	white	2009-110	1

WMB marking card; white; 10 strips with 10 markers/card; 5 … 5.2 mm stretchable			
	plain	793-5501	5

PUSH-IN CAGE CLAMP®

Through and Ground Conductor Terminal Block TOPJOB® S; with Lever and Push-Button
2.5 (4) mm²; 2102 Series

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
800 V/8 kV/3 ❷	
I_N 24 A (32 A)	
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	

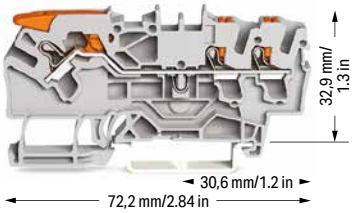


2-conductor through terminal block; with lever and push-button		
Color	Item No.	Pack. Unit
gray	2102-5201	50
blue	2102-5204 ❸	50

2-conductor ground terminal block; with lever and push-button		
green-yellow	2102-5207	50

Accessories; item-specific			
End and intermediate plate; 0.8 mm thick			
	orange	2102-1292	100 (25)
	gray	2102-1291	100 (25)

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
800 V/8 kV/3 ❷	
I_N 24 A (30 A)	
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



3-conductor through terminal block; with lever and push-button		
Color	Item No.	Pack. Unit
gray	2102-5301	50
blue	2102-5304 ❸	50

3-conductor ground terminal block; with lever and push-button		
green-yellow	2102-5307	50

Accessories; item-specific			
End and intermediate plate; 0.8 mm thick			
	orange	2102-1392	100 (25)
	gray	2102-1391	100 (25)

Accessories; 2102 Series

Appropriate marking systems: WMB/WMB Inline/Marking strips

Insulation stop; 5 pcs/strip; 0.25 … 0.5 mm²			
	light gray	2002-171	200 (25)

Insulation stop; 5 pcs/strip; 0.75 … 1 mm²			
	dark gray	2002-172	200 (25)

Push-in type jumper bar; insulated; I_N 25 A; light gray		
2-way	2002-402	25
3-way	2002-403	25
4-way	2002-404	25
5-way	2002-405	25
6-way	2002-406	25
7-way	2002-407	25
8-way	2002-408	25
9-way	2002-409	25
10-way	2002-410	25

Push-in type jumper bar; insulated; I_N 25 A; light gray		
1 to 3	2002-433	25
1 to 4	2002-434	25
1 to 5	2002-435	25
1 to 6	2002-436	25
1 to 7	2002-437	25
1 to 8	2002-438	25
1 to 9	2002-439	25
1 to 10	2002-440	25

Delta jumper; insulated; I_N = I_N terminal block; light gray		
1-2 3-4 5-6	2002-406/020-000	25

Adjacent jumper for continuous commoning; insulated; I_N 25 A, light gray		
2-way	2002-400	25

Adjacent jumper for continuous commoning; insulated; I_N 25 A; 1 to 3		
light gray	2002-423	25
red	2002-423/000-005	25
blue	2002-423/000-006	25

Adjacent jumper for continuous commoning; insulated; I_N 25 A, light gray		
5-way	2002-415	25

Push-in type wire jumper; insulated; 1.5 mm² conductor cross-section; I_N 18 A		
L = 60 mm	2009-412	100 (10)
L = 110 mm	2009-414	100 (10)
L = 250 mm	2009-416	100 (10)

Staggered jumper; insulated; I_N 25 A; light gray		
2-way	2002-472	25
3-way	2002-473	25
4-way	2002-474	25
5-way	2002-475	25
6-way	2002-476	25
7-way	2002-477	25
8-way	2002-478	25
9-way	2002-479	25
10-way	2002-480	25
11-way	2002-481	25
12-way	2002-482	25

❶ Conductor range: 0.25 … 4 mm² "s+f-st"; Push-in termination: 1 … 4 mm² "s" and 1 … 2.5 mm² "insulated ferrules, 12 mm" Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 800 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

❸ Terminal blocks with a blue insulated housing are suitable for Ex i applications.

Please observe the application notes:
Jumpers, from page 152
Testing accessories, from page 146
Marking, from page 588

Approvals and corresponding ratings, visit www.wago.com

Accessories; 2102 Series

Appropriate marking systems: WMB/WMB Inline/Marking strips

Customized staggered jumper; insulated; with contact lugs broken off at the factory and circuit printing; I_N 25 A; light gray			
1-3	2002-473/011-000	25
1-3-5	2002-475/011-000	25
1-3-5-7	2002-477/011-000	25
1-3-5-7-9	2002-479/011-000	25
1-3-5-7-9-11	2002-481/011-000	25

Star point jumper; insulated; I_N = I_N terminal block; light gray			
1-3-5	2002-405/011-000	25

Modular connector; snaps together; for jumper contact slot			
	gray	2002-511	100 (25)

Spacer module; snaps together; bridges commoned terminal blocks			
	gray	2002-549	100 (25)

End plate; for modular connector; 1.5 mm thick			
	gray	2002-541	100 (25)

WMB Inline, plain; 1,500 WMB markers (5 mm)/reel; 5 … 5.2 mm stretchable			
	white	2009-115	1

Marking strip; plain; 11 mm wide; 50 m reel			
	white	2009-110	1

Through and Ground Conductor Terminal Block TOPJOB® S; with Lever and Push-Button
6 (10) mm²; 2106 Series

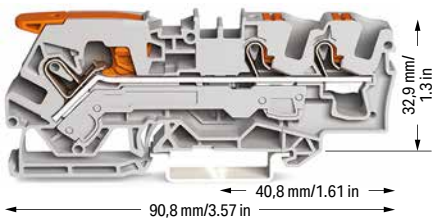
1

Technical Data	
0.5 … 6 (10) mm² ❶	20 … 8 AWG
800 V/8 kV/3 ❷	
I_N 41 A (55 A)	
Terminal block width: 7.5 mm / 0.295 inch	
13 … 15 mm / 0.51 … 0.59 inch	

2-conductor through terminal block; with lever and push-button		
Color	Item No.	Pack. Unit
gray	2106-5201	25
blue	2106-5204 ❸	25

2-conductor ground terminal block; with lever and push-button		
green-yellow	2106-5207	25

Technical Data	
0.5 … 6 (10) mm² ❶	20 … 8 AWG
800 V/8 kV/3 ❷	
I_N 41 A (55 A)	
Terminal block width: 7.5 mm / 0.295 inch	
13 … 15 mm / 0.51 … 0.59 inch	



3-conductor through terminal block; with lever and push-button		
Color	Item No.	Pack. Unit
gray	2106-5301	25
blue	2106-5304 ❸	25

3-conductor ground terminal block; with lever and push-button		
green-yellow	2106-5307	25

❶ Conductor range: 0.5 … 10 mm² "s+f-st"; Push-in termination: 2.5 … 10 mm² "s" and 2.5 … 6 mm² "insulated ferrules; 12 mm" Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 800 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

❸ Terminal blocks with a blue insulated housing are suitable for Ex i applications.

Please observe the application notes:
Jumpers, from page 155
Testing accessories, from page 148
Marking, from page 588

Approvals and corresponding ratings, visit www.wago.com

Accessories; item-specific

End and intermediate plate; 1 mm thick			
	orange	2106-1292	100 (25)
	gray	2106-1291	100 (25)

Accessories; item-specific

End and intermediate plate; 1 mm thick			
	orange	2106-1392	100 (25)
	gray	2106-1391	100 (25)

Accessories; 2106 Series

Appropriate marking systems: WMB/WMB Inline/Marking strips

Push-in type jumper bar; insulated; I_N 41 A; light gray			
	2-way	2006-402	25
	3-way	2006-403	25
	4-way	2006-404	25
	5-way	2006-405	25

Push-in type jumper bar; insulated; I_N 41 A; light gray			
	1 to 3	2006-433	25
	1 to 4	2006-434	25
	1 to 5	2006-435	25

Star point jumper; insulated; I_N = I_N terminal block; light gray			
	1-3-5	2006-405/011-000	25

Lockout cap; for conductor entry and operating slot			
	gray	2006-191	25

Modular connector; snaps together; for jumper contact slot			
	gray	2006-511	50 (25)

Test plug adapter; for 4 mm Ø test plug			
	gray	2009-174	100 (25)

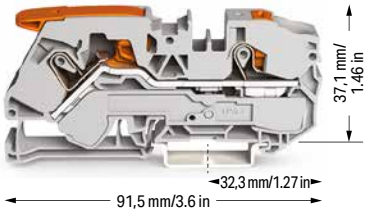
Marking strip; plain; 11 mm wide; 50 m reel			
	white	2009-110	1

WMB marking card; white; 10 strips with 10 markers/card; 5 … 5.2 mm stretchable			
	plain	793-5501	5

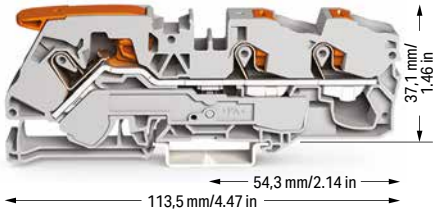
PUSH-IN CAGE CLAMP®

Through and Ground Conductor Terminal Block TOPJOB® S; with Lever and Push-Button
16 (25 “f-st”) mm²; 2102 Series

Technical Data	
0.5 … 16 (25 “f-st”) mm² ❶	20 … 4 AWG
800 V/8 kV/3 ❷	
I_N 76 A (90 A)	
Terminal block width: 12 mm / 0.472 inch	
18 … 20 mm / 0.71 … 0.79 inch	



Technical Data	
0.5 … 16 (25 “f-st”) mm² ❶	20 … 4 AWG
800 V/8 kV/3 ❷	
I_N 76 A (90 A)	
Terminal block width: 12 mm / 0.472 inch	
18 … 20 mm / 0.71 … 0.79 inch	



❶ Conductor range: 0.5 … 16 mm² “s+f-st”, 25 mm² “f-st”; Push-in termination: 6 … 16 mm² “s” and 6 … 16 mm² “insulated ferrules; 18 mm”
Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 800 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

❸ Terminal blocks with a blue insulated housing are suitable for Ex i applications.

Please observe the application notes:
Jumpers, from page 155
Testing accessories, from page 149
Marking, from page 588

Approvals and corresponding ratings, visit www.wago.com

2-conductor through terminal block; with lever and push-button

Color	Item No.	Pack. Unit
gray	2116-5201	20
blue	2116-5204 ❸	20

3-conductor through terminal block; with lever and push-button

Color	Item No.	Pack. Unit
gray	2116-5301	20
blue	2116-5304 ❸	20

2-conductor ground terminal block; with lever and push-button
15 mm high DIN-35 rails shall be used for a current load higher than 76 A!

green-yellow		2116-5207	20

3-conductor ground terminal block; with lever and push-button
15 mm high DIN-35 rails shall be used for a current load higher than 76 A!

green-yellow		2116-5307	20

Accessories; item-specific

End and intermediate plate; 1 mm thick

orange	2116-1292	100 (25)
gray	2116-1291	100 (25)

Accessories; item-specific

End and intermediate plate; 1 mm thick

orange	2116-1392	100 (25)
gray	2116-1391	100 (25)

Accessories; 2116 Series

Appropriate marking systems: WMB/WMB Inline/Marking strips

Push-in type jumper bar; insulated; I_N 41 A; light gray

2-way	2016-402	25
3-way	2016-403	25
4-way	2016-404	25
5-way	2016-405	25

Push-in type jumper bar; insulated; I_N 41 A; light gray

1 to 3	2016-433	25
1 to 4	2016-434	25
1 to 5	2016-435	25

Star point jumper; insulated; I_N = I_N terminal block; light gray

1-3-5	2016-405/011-000	25

Finger guard; touch-proof cover protects unused conductor entries

yellow	2016-100	100 (25)

Modular connector; snaps together; for jumper contact slot

gray	2011-511	50 (25)

Test plug adapter; for 4 mm Ø test plug

gray	2009-174	100 (25)

Marking strip; plain; 11 mm wide; 50 m reel

white	2009-110	1

WMB marking card; white; 10 strips with 10 markers/card; 5 … 5.2 mm stretchable

plain	793-5501	5

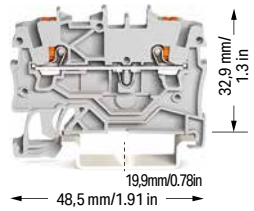
Through and Ground Conductor Terminal Block TOPJOB® S; with Push-Button
1 (1.5) mm²; 2200 Series

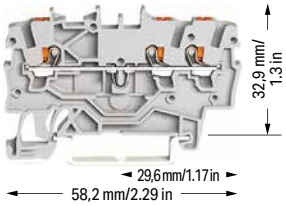
1

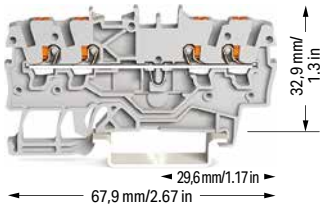
Technical Data	
0.14 … 1 (1.5) mm² ❶	24 … 16 AWG
800 V/8 kV/3 ❷	
I_N 13.5 A (18 A)	
Terminal block width: 3.5 mm / 0.138 inch	
9 … 11 mm / 0.35 … 0.43 inch	

Technical Data	
0.14 … 1 (1.5) mm² ❶	24 … 16 AWG
800 V/8 kV/3 ❷	
I_N 13.5 A (18 A)	
Terminal block width: 3.5 mm / 0.138 inch	
9 … 11 mm / 0.35 … 0.43 inch	

Technical Data	
0.14 … 1 (1.5) mm² ❶	24 … 16 AWG
800 V/8 kV/3 ❷	
I_N 13.5 A (18 A)	
Terminal block width: 3.5 mm / 0.138 inch	
9 … 11 mm / 0.35 … 0.43 inch	







2-conductor through terminal block; with push-button		
Color	Item No.	Pack. Unit
gray	2200-1201	100
blue	2200-1204 ❸	100

3-conductor through terminal block; with push-button		
Color	Item No.	Pack. Unit
gray	2200-1301	100
blue	2200-1304 ❸	100

4-conductor through terminal block; with push-button		
Color	Item No.	Pack. Unit
gray	2200-1401	100
blue	2200-1404 ❸	100

2-conductor ground terminal block; with push-button		
green-yellow	2200-1207	100

3-conductor ground terminal block; with push-button		
green-yellow	2200-1307	100

4-conductor ground terminal block; with push-button		
green-yellow	2200-1407	100

Accessories; item-specific

End and intermediate plate; 0.7 mm thick

orange	2000-1292	100 (25)
gray	2000-1291	100 (25)

Accessories; item-specific

End and intermediate plate; 0.7 mm thick

orange	2000-1392	100 (25)
gray	2000-1391	100 (25)

Accessories; item-specific

End and intermediate plate; 0.7 mm thick

orange	2000-1492	100 (25)
gray	2000-1491	100 (25)

Accessories; 2200 Series

Appropriate marking systems: WMB/WMB Inline/Marking strips

Push-in type jumper bar; insulated; I_N 14 A; light gray

2-way	2000-402	25
3-way	2000-403	25
4-way	2000-404	25
5-way	2000-405	25
6-way	2000-406	25
7-way	2000-407	25
8-way	2000-408	25
9-way	2000-409	25
10-way	2000-410	25

Push-in type jumper bar; insulated; I_N 14 A; light gray

1 to 3	2000-433	25
1 to 4	2000-434	25
1 to 5	2000-435	25
1 to 6	2000-436	25
1 to 7	2000-437	25
1 to 8	2000-438	25
1 to 9	2000-439	25
1 to 10	2000-440	25

Delta jumper; insulated; $I_N = I_N$ terminal block; light gray

1-2 3-4 5-6	2000-406/020-000	25

Star point jumper; insulated; $I_N = I_N$ terminal block; light gray

1-3-5	2000-405/011-000	25

Push-in type wire jumper; insulated; 0.75 mm² conductor cross-section; I_N 9 A

L = 60 mm	2009-402	100 (10)
L = 110 mm	2009-404	100 (10)
L = 250 mm	2009-406	100 (10)

Modular connector; snaps together; for jumper contact slot
Terminal block width: 5 mm / 0.197 inch

gray	2000-511	100 (25)

Modular connector; snaps together; for jumper contact slot

gray	2000-510	100 (25)

Spacer module; snaps together; bridges commoned terminal blocks

gray	2000-549	100 (25)

End plate; for modular connector; 1.5 mm thick

gray	2002-541	100 (25)

Test plug; with 500 mm cable; 2 mm Ø; max. 42 V

red	210-136	50

Test plug; with 500 mm cable; 2.3 mm Ø; max. 42 V

yellow	210-137	50

WMB Inline; plain; 2,300 WMB markers (3.5 mm)/reel

white	2009-113	1

Marking strip; plain; 11 mm wide; 50 m reel

white	2009-110	1

WMB marking card; white; 10 strips with 10 markers/card; for 3.5 mm terminal block width

plain	793-3501	5

1

❶ Conductor range: 0.14 … 1.5 mm² “s+f-st”;
Push-in termination: 0.5 … 1.5 mm² “s” and
0.5 … 0.75 mm² “insulated ferrules; 12 mm”
Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 800 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

❸ Terminal blocks with a blue insulated housing are suitable for Ex i applications.

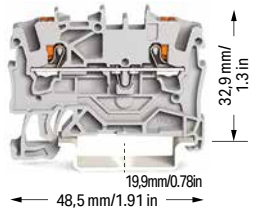
Please observe the application notes:
Jumpers, from page 152
Testing accessories, from page 146
Marking, from page 588

Approvals and corresponding ratings,
visit www.wago.com

Through and Ground Conductor Terminal Block TOPJOB® S; with Push-Button
1.5 (2.5) mm²; 2201 Series

1

Technical Data	
0.25 … 1.5 (2.5) mm² ❶	22 … 14 AWG
800 V/8 kV/3 ❷	
I_N 18 A (24 A)	
Terminal block width: 4.2 mm / 0.165 inch	
9 … 11 mm / 0.35 … 0.43 inch	

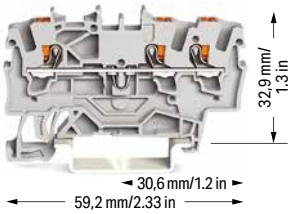


2-conductor through terminal block; with push-button		
Color	Item No.	Pack. Unit
gray	2201-1201	100
blue	2201-1204 ❸	100

2-conductor ground terminal block; with push-button		
green-yellow	2201-1207	100

Accessories; item-specific			
End and intermediate plate; 0.8 mm thick			
	orange	2002-1292	100 (25)
	gray	2002-1291	100 (25)
Separator; oversized; 2 mm thick			
	orange	2002-1294	100 (25)
	gray	2002-1293	100 (25)

Technical Data	
0.25 … 1.5 (2.5) mm² ❶	22 … 14 AWG
800 V/8 kV/3 ❷	
I_N 18 A (24 A)	
Terminal block width: 4.2 mm / 0.165 inch	
9 … 11 mm / 0.35 … 0.43 inch	

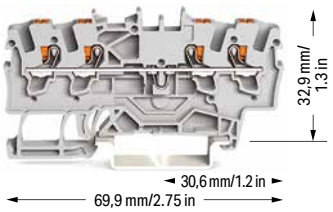


3-conductor through terminal block; with push-button		
Color	Item No.	Pack. Unit
gray	2201-1301	100
blue	2201-1304 ❸	100

3-conductor ground terminal block; with push-button		
green-yellow	2201-1307	100

Accessories; item-specific			
End and intermediate plate; 0.8 mm thick			
	orange	2002-1392	100 (25)
	gray	2002-1391	100 (25)
Separator; oversized; 2 mm thick			
	orange	2002-1394	100 (25)
	gray	2002-1393	100 (25)

Technical Data	
0.25 … 1.5 (2.5) mm² ❶	22 … 14 AWG
800 V/8 kV/3 ❷	
I_N 18 A (24 A)	
Terminal block width: 4.2 mm / 0.165 inch	
9 … 11 mm / 0.35 … 0.43 inch	



4-conductor through terminal block; with push-button		
Color	Item No.	Pack. Unit
gray	2201-1401	100
blue	2201-1404 ❸	100

4-conductor ground terminal block; with push-button		
green-yellow	2201-1407	100

Accessories; item-specific			
End and intermediate plate; 0.8 mm thick			
	orange	2002-1492	100 (25)
	gray	2002-1491	100 (25)
Separator; oversized; 2 mm thick			
	orange	2002-1494	100 (25)
	gray	2002-1493	100 (25)

Accessories; 2201 Series

Appropriate marking systems: WMB/WMB Inline/Marking strips

Insulation stop; 5 pcs/strip; 0.25 … 0.5 mm²			
	light gray	2001-171	200 (25)

Push-in type jumper bar; insulated; I_N 18 A; light gray			
	2-way	2001-402	25
	3-way	2001-403	25
	4-way	2001-404	25
	5-way	2001-405	25
	6-way	2001-406	25
	7-way	2001-407	25
	8-way	2001-408	25
	9-way	2001-409	25
	10-way	2001-410	25

Push-in type jumper bar; insulated; I_N 18 A; light gray			
	1 to 3	2001-433	25
	1 to 4	2001-434	25
	1 to 5	2001-435	25
	1 to 6	2001-436	25
	1 to 7	2001-437	25
	1 to 8	2001-438	25
	1 to 9	2001-439	25
	1 to 10	2001-440	25

Delta jumper; insulated; I_N = I_N terminal block; light gray			
	1-2 3-4 5-6	2001-406/020-000	25

Star point jumper; insulated; I_N = I_N terminal block; light gray			
	1-3-5	2001-405/011-000	25

Push-in type wire jumper; insulated; 1.5 mm² conductor cross-section; I_N 18 A			
	L = 60 mm	2009-412	100 (10)
	L = 110 mm	2009-414	100 (10)
	L = 250 mm	2009-416	100 (10)

Modular connector; snaps together; for jumper contact slot			
	gray	2001-511	100 (25)

Spacer module; snaps together; bridges commoned terminal blocks			
	gray	2001-549	100 (25)

End plate; for modular connector; 1.5 mm thick			
	gray	2002-541	100 (25)

Test plug adapter; for 4 mm Ø test plug			
	gray	2009-174	100 (25)

Banana plug; for 4 mm socket diameter; color mixed; 10 x orange, white, black, blue, yellow; max. 42 V			
		215-111	50

Testing tap; for max. 2.5 mm²			
	gray	2009-182	100 (25)

Test plug; with 500 mm cable; 2 mm Ø; max. 42 V			
	red	210-136	50

Test plug; with 500 mm cable; 2.3 mm Ø; max. 42 V			
	yellow	210-137	50

WMB Inline; plain; 2,000 WMB markers (4 mm)/reel; 4 … 4.2 mm stretchable			
	white	2009-114	1

❶ Conductor range: 0.25 … 2.5 mm² “s+f-st”;
Push-in termination: 0.75 … 2.5 mm² “s” and
0.75 … 1.5 mm² “insulated ferrules; 12 mm”
Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 800 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

❸ Terminal blocks with a blue insulated housing are suitable for Ex i applications.

Please observe the application notes:
Jumpers, from page 155
Testing accessories, from page 146
Marking, from page 588

Approvals and corresponding ratings,
visit www.wago.com

Accessories; 2201 Series

Appropriate marking systems:
WMB/WMB Inline/Marking strips

Marking strip; plain; 11 mm wide; 50 m reel

white	**2009-110**	1

WMB marking card; white; 10 strips with 10 markers/card; 4 … 4.2 mm stretchable

plain	**793-4501**	5

WMB marking card; plain; 10 strips with 10 markers/card; 4 … 4.2 mm stretchable

yellow	**793-4501/000-002**	5
red	**793-4501/000-005**	5
blue	**793-4501/000-006**	5
gray	**793-4501/000-007**	5
orange	**793-4501/000-012**	5
light green	**793-4501/000-017**	5
green	**793-4501/000-023**	5
violet	**793-4501/000-024**	5

Screwless end stop; for DIN-35 rail; 6 mm wide

gray	**249-116**	100 (25)

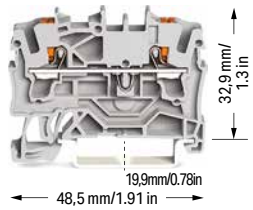
Screwless end stop; for DIN-35 rail; 10 mm wide

gray	**249-117**	50 (25)

Through and Ground Conductor Terminal Block TOPJOB® S; with Push-Button
2.5 (4) mm²; 2202 Series

1

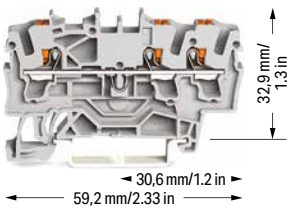
Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
800 V/8 kV/3 ❷	
I_N 24 A (32 A)	
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



2-conductor through terminal block; with push-button		
Color	Item No.	Pack. Unit
gray	2202-1201	100
blue	2202-1204 ❸	100
red	2202-1203	100
black	2202-1205	100

2-conductor ground terminal block; with push-button		
green-yellow	2202-1207	100

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
800 V/8 kV/3 ❷	
I_N 24 A (32 A)	
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



3-conductor through terminal block; with push-button		
Color	Item No.	Pack. Unit
gray	2202-1301	100
blue	2202-1304 ❸	100

3-conductor ground terminal block; with push-button		
green-yellow	2202-1307	100

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
800 V/8 kV/3 ❷	
I_N 24 A (32 A)	
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	

4-conductor through terminal block; with push-button		
Color	Item No.	Pack. Unit
gray	2202-1401	100
blue	2202-1404 ❸	100

4-conductor ground terminal block; with push-button		
green-yellow	2202-1407	100

Accessories; item-specific

End and intermediate plate; 0.8 mm thick			
	orange	2002-1292	100 (25)
	gray	2002-1291	100 (25)

Separator; oversized; 2 mm thick			
	orange	2002-1294	100 (25)
	gray	2002-1293	100 (25)

Accessories; item-specific

End and intermediate plate; 0.8 mm thick			
	orange	2002-1392	100 (25)
	gray	2002-1391	100 (25)

Separator; oversized; 2 mm thick			
	orange	2002-1394	100 (25)
	gray	2002-1393	100 (25)

Accessories; item-specific

End and intermediate plate; 0.8 mm thick			
	orange	2002-1492	100 (25)
	gray	2002-1491	100 (25)

Separator; oversized; 2 mm thick			
	orange	2002-1494	100 (25)
	gray	2002-1493	100 (25)

Accessories; 2202 Series

Appropriate marking systems: WMB/WMB Inline/Marking strips

Insulation stop; 5 pcs/strip; 0.25 … 0.5 mm²			
	light gray	2002-171	200 (25)

Insulation stop; 5 pcs/strip; 0.75 … 1 mm²			
	dark gray	2002-172	200 (25)

Push-in type jumper bar; insulated; I_N 25 A; light gray			
	2-way	2002-402	25
	3-way	2002-403	25
	4-way	2002-404	25
	5-way	2002-405	25
	6-way	2002-406	25
	7-way	2002-407	25
	8-way	2002-408	25
	9-way	2002-409	25
	10-way	2002-410	25

Push-in type jumper bar; insulated; I_N 25 A; light gray			
	1 to 3	2002-433	25
	1 to 4	2002-434	25
	1 to 5	2002-435	25
	1 to 6	2002-436	25
	1 to 7	2002-437	25
	1 to 8	2002-438	25
	1 to 9	2002-439	25
	1 to 10	2002-440	25

Delta jumper; insulated; I_N = I_N terminal block; light gray			
	1-2 3-4 5-6	2002-406/020-000	25

Star point jumper; insulated; I_N = I_N terminal block; light gray			
	1-3-5	2002-405/011-000	25

Adjacent jumper for continuous commoning; insulated; I_N 25 A, light gray			
	2-way	2002-400	25

Adjacent jumper for continuous commoning; insulated; I_N 25 A; 1 to 3			
	light gray	2002-423	25
	red	2002-423/000-005	25
	blue	2002-423/000-006	25

Adjacent jumper for continuous commoning; insulated; I_N 25 A, light gray			
	5-way	2002-415	25

Staggered jumper; insulated; I_N 25 A; light gray			
	2-way	2002-472	25
	3-way	2002-473	25
	4-way	2002-474	25
	5-way	2002-475	25
	6-way	2002-476	25
	7-way	2002-477	25
	8-way	2002-478	25
	9-way	2002-479	25
	10-way	2002-480	25
	11-way	2002-481	25
	12-way	2002-482	25

Customized staggered jumper; insulated; with contact lugs broken off at the factory and circuit printing; I_N 25 A; light gray			
	1-3	2002-473/011-000	25
	1-3-5	2002-475/011-000	25
	1-3-5-7	2002-477/011-000	25
	1-3-5-7-9	2002-479/011-000	25
	1-3-5-7-9-11	2002-481/011-000	25

Push-in type wire jumper; insulated; 1.5 mm² conductor cross-section; I_N 18 A			
	L = 60 mm	2009-412	100 (10)
	L = 110 mm	2009-414	100 (10)
	L = 250 mm	2009-416	100 (10)

❶ Conductor range: 0.25 … 4 mm² “s+f-st”;
Push-in termination: 1 … 4 mm² “s” and 1 … 2.5 mm² “insulated ferrules, 12 mm”
Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 800 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

❸ Terminal blocks with a blue insulated housing are suitable for Ex i applications.

Please observe the application notes:
Jumpers, from page 152
Testing accessories, from page 146
Marking, from page 588

Approvals and corresponding ratings, visit www.wago.com

Accessories; 2202 Series

Appropriate marking systems:
WMB/WMB Inline/Marking strips

Modular connector; snaps together; for jumper contact slot

gray **2002-511** 100 (25)

Spacer module; snaps together; bridges commoned terminal blocks

gray **2002-549** 100 (25)

End plate; for modular connector; 1.5 mm thick

gray **2002-541** 100 (25)

WMB Inline, plain; 1,500 WMB markers (5 mm)/reel; 5 … 5.2 mm stretchable

white **2009-115** 1

Marking strip; plain; 11 mm wide; 50 m reel

white **2009-110** 1

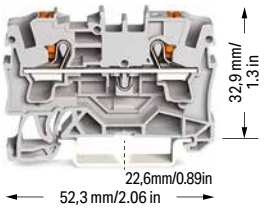
WMB marking card; white; 10 strips with 10 markers/card; 5 … 5.2 mm stretchable

plain **793-5501** 5

Through and Ground Conductor Terminal Block TOPJOB® S; with Push-Button
4 (6) mm²; 2204 Series

1

Technical Data	
0.5 … 4 (6) mm² ❶	20 … 10 AWG
800 V/8 kV/3 ❷	
I_N 32 A (41 A)	
Terminal block width: 6.2 mm / 0.244 inch	
11 … 13 mm / 0.43 … 0.51 inch	

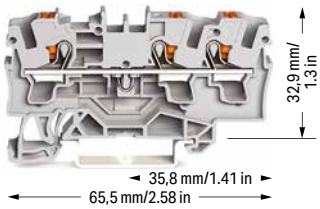


2-conductor through terminal block; with push-button		
Color	Item No.	Pack. Unit
gray	2204-1201	50
blue	2204-1204 ❸	50

2-conductor ground terminal block; with push-button		
green-yellow	2204-1207	50

Accessories; item-specific			
End and intermediate plate; 1 mm thick			
	orange	2004-1292	100 (25)
	gray	2004-1291	100 (25)
Separator; oversized; 2 mm thick			
	orange	2004-1294	100 (25)
	gray	2004-1293	100 (25)

Technical Data	
0.5 … 4 (6) mm² ❶	20 … 10 AWG
800 V/8 kV/3 ❷	
I_N 32 A (41 A)	
Terminal block width: 6.2 mm / 0.244 inch	
11 … 13 mm / 0.43 … 0.51 inch	

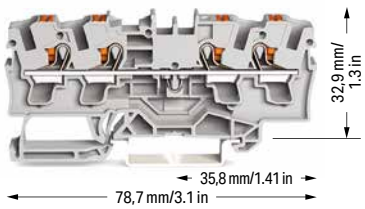


3-conductor through terminal block; with push-button		
Color	Item No.	Pack. Unit
gray	2204-1301	50
blue	2204-1304 ❸	50

3-conductor ground terminal block; with push-button		
green-yellow	2204-1307	50

Accessories; item-specific			
End and intermediate plate; 1 mm thick			
	orange	2004-1392	100 (25)
	gray	2004-1391	100 (25)
Separator; oversized; 2 mm thick			
	orange	2004-1394	100 (25)
	gray	2004-1393	100 (25)

Technical Data	
0.5 … 4 (6) mm² ❶	20 … 10 AWG
800 V/8 kV/3 ❷	
I_N 32 A (41 A)	
Terminal block width: 6.2 mm / 0.244 inch	
11 … 13 mm / 0.43 … 0.51 inch	



4-conductor through terminal block; with push-button		
Color	Item No.	Pack. Unit
gray	2204-1401	50
blue	2204-1404 ❸	50

4-conductor ground terminal block; with push-button		
green-yellow	2204-1407	50

Accessories; item-specific			
End and intermediate plate; 1 mm thick			
	orange	2004-1492	100 (25)
	gray	2004-1491	100 (25)
Separator; oversized; 2 mm thick			
	orange	2004-1494	100 (25)
	gray	2004-1493	100 (25)

Accessories; 2204 Series

Appropriate marking systems: WMB/WMB Inline/Marking strips

Insulation stop; 5 pcs/strip; 0.25 … 0.5 mm²			
	light gray	2004-171	200 (25)

Insulation stop; 5 pcs/strip; 0.75 … 1 mm²			
	dark gray	2004-172	200 (25)

Push-in type jumper bar; insulated; I_N 32 A; light gray		
2-way	2004-402	25
3-way	2004-403	25
4-way	2004-404	25
5-way	2004-405	25
6-way	2004-406	25
7-way	2004-407	25
8-way	2004-408	25
9-way	2004-409	25
10-way	2004-410	25

Push-in type jumper bar; insulated; I_N 32 A; light gray		
1 to 3	2004-433	25
1 to 4	2004-434	25
1 to 5	2004-435	25
1 to 6	2004-436	25
1 to 7	2004-437	25
1 to 8	2004-438	25
1 to 9	2004-439	25
1 to 10	2004-440	25

Star point jumper; insulated; I_N = I_N terminal block; light gray			
	1-3-5	2004-405/011-000	25

Delta jumper; insulated; I_N = I_N terminal block; light gray			
	1-2 3-4 5-6	2004-406/020-000	

Modular connector; snaps together; for jumper contact slot			
	gray	2004-511	100 (25)

Spacer module; snaps together; bridges commoned terminal blocks			
	gray	2004-549	100 (25)

End plate; for modular connector; 1.5 mm thick			
	gray	2004-541	100 (25)

Test plug adapter; for 4 mm Ø test plug			
	gray	2009-174	100 (25)

Banana plug; for 4 mm socket diameter; color mixed; 10 x orange, white, black, blue, yellow; max. 42 V		
	215-111	50

Testing tap; for max. 2.5 mm²			
	gray	2009-182	100 (25)

Marking strip; plain; 11 mm wide; 50 m reel			
	white	2009-110	1

WMB marking card; white; 10 strips with 10 markers/card; 5 … 5.2 mm stretchable			
	plain	793-5501	5

Group marker carrier; snap-on type for jumper slot; 5 mm wide			
	gray	2009-191	50 (25)

❶ Conductor range: 0.5 … 6 mm² “s+f-st”;
Push-in termination: 1.5 … 6 mm² “s” and 1.5 … 4 mm² “insulated ferrules; 12 mm”
Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 800 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

❸ Terminal blocks with a blue insulated housing are suitable for Ex i applications.

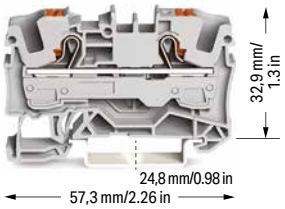
Please observe the application notes:
Jumpers, from page 155
Testing accessories, from page 148
Marking, from page 588

Approvals and corresponding ratings,
visit www.wago.com

Through and Ground Conductor Terminal Block TOPJOB® S; with Push-Button
6 (10) mm²; 2206 Series

1

Technical Data	
0.5 … 6 (10) mm² ❶	20 … 8 AWG
800 V/8 kV/3 ❷	
I_N 41 A (57 A)	
Terminal block width: 7.5 mm / 0.295 inch	
13 … 15 mm / 0.51 … 0.59 inch	

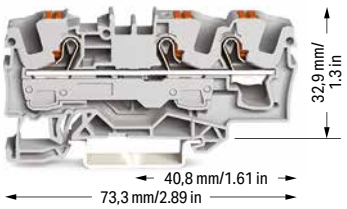


2-conductor through terminal block; with push-button		
Color	Item No.	Pack. Unit
gray	2206-1201	50
blue	2206-1204 ❸	50

2-conductor ground terminal block; with push-button		
green-yellow	2206-1207	50

Accessories; item-specific			
End and intermediate plate; 1 mm thick			
	orange	2006-1292	100 (25)
	gray	2006-1291	100 (25)
Separator; oversized; 2 mm thick			
	orange	2006-1294	100 (25)
	gray	2006-1293	100 (25)

Technical Data	
0.5 … 6 (10) mm² ❶	20 … 8 AWG
800 V/8 kV/3 ❷	
I_N 41 A (57 A)	
Terminal block width: 7.5 mm / 0.295 inch	
13 … 15 mm / 0.51 … 0.59 inch	



3-conductor through terminal block; with push-button		
Color	Item No.	Pack. Unit
gray	2206-1301	25
blue	2206-1304 ❸	25

3-conductor ground terminal block; with push-button		
green-yellow	2206-1307	25

Accessories; item-specific			
End and intermediate plate; 1 mm thick			
	orange	2006-1392	100 (25)
	gray	2006-1391	100 (25)
Separator; oversized; 2 mm thick			
	orange	2006-1394	100 (25)
	gray	2006-1393	100 (25)

Accessories; 2206 Series

Appropriate marking systems: WMB/WMB Inline/Marking strips

Push-in type jumper bar; insulated; I_N 41 A; light gray		
2-way	2006-402	25
3-way	2006-403	25
4-way	2006-404	25
5-way	2006-405	25

Push-in type jumper bar; insulated; I_N 41 A; light gray		
1 to 3	2006-433	25
1 to 4	2006-434	25
1 to 5	2006-435	25

Star point jumper; insulated; I_N = I_N terminal block; light gray		
1-3-5	2006-405/011-000	25

Modular connector; snaps together; for jumper contact slot		
gray	2006-511	50 (25)

Test plug adapter; for 4 mm Ø test plug		
gray	2009-174	100 (25)

Marking strip; plain; 11 mm wide; 50 m reel		
white	2009-110	1

WMB marking card; white; 10 strips with 10 markers/card; 5 … 5.2 mm stretchable		
plain	793-5501	5

❶ Conductor range: 0.5 … 10 mm² "s+f-st"; Push-in termination: 2.5 … 10 mm² "s" and 2.5 … 6 mm² "insulated ferrules; 12 mm" Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 800 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

❸ Terminal blocks with a blue insulated housing are suitable for Ex i applications.

Please observe the application notes:
Jumpers, from page 155
Testing accessories, from page 148
Marking, from page 588

Approvals and corresponding ratings, visit www.wago.com

PUSH-IN CAGE CLAMP®

Through and Ground Conductor Terminal Block TOPJOB® S; with Push-Button
10 (16) mm²; 2210 Series

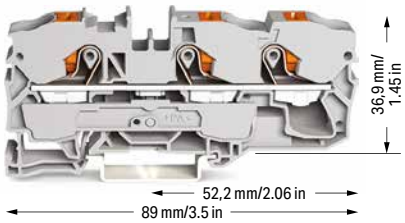
Technical Data	
0,5 … 10 (16) mm² ❶	20 … 6 AWG
800 V/8 kV/3 ❷	
I_N 57 A (76 A)	
Terminal block width: 10 mm / 0.394 inch	
17 … 19 mm / 0.67 … 0.91 inch	

2-conductor through terminal block; with push-button		
Color	Item No.	Pack. Unit
gray	2210-1201	25
blue	2210-1204 ❸	25

2-conductor ground terminal block; with push-button		
green-yellow	2210-1207	25

Accessories; item-specific			
End and intermediate plate; 1 mm thick			
	orange	2010-1292	100 (25)
	gray	2010-1291	100 (25)

Technical Data	
0,5 … 10 (16) mm² ❶	20 … 6 AWG
800 V/8 kV/3 ❷	
I_N 57 A (76 A)	
Terminal block width: 10 mm / 0.394 inch	
17 … 19 mm / 0.67 … 0.91 inch	



3-conductor through terminal block; with push-button		
Color	Item No.	Pack. Unit
gray	2210-1301	25
blue	2210-1304 ❸	25

3-conductor ground terminal block; with push-button		
green-yellow	2210-1307	25

Accessories; item-specific			
End and intermediate plate; 1 mm thick			
	orange	2010-1392	100 (25)
	gray	2010-1391	100 (25)

Accessories; 2210 Series			
Appropriate marking systems: WMB/WMB Inline/Marking strips			
Push-in type jumper bar; insulated; I_N 57 A; light gray			
	2-way	2010-402	25
	3-way	2010-403	25
	4-way	2010-404	25
	5-way	2010-405	25
Push-in type jumper bar; insulated; I_N 57 A; light gray			
	1 to 3	2010-433	25
	1 to 4	2010-434	25
	1 to 5	2010-435	25
Star point jumper; insulated; I_N = I_N terminal block; light gray			
	1-3-5	2010-405/011-000	25
Finger guard; touch-proof cover protects unused conductor entries			
	yellow	2010-100	100 (25)
Modular connector; snaps together; for jumper contact slot			
	gray	2010-511	50 (25)
Test plug adapter; for 4 mm Ø test plug			
	gray	2009-174	100 (25)
Marking strip; plain; 11 mm wide; 50 m reel			
	white	2009-110	1
WMB marking card; white; 10 strips with 10 markers/card; 5 … 5.2 mm stretchable			
	plain	793-5501	5

❶ Conductor range: 0.5 … 16 mm² “s+f-st”; Push-in termination: 4 … 16 mm² “s” and 4 … 10 mm² “insulated ferrules; 18 mm” Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 800 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

❸ Terminal blocks with a blue insulated housing are suitable for Ex i applications.

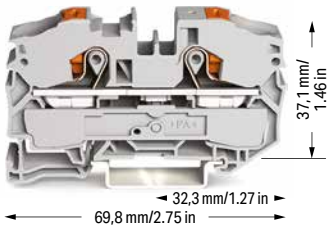
Please observe the application notes:
Jumpers, from page 155
Testing accessories, from page 148
Marking, from page 588

Approvals and corresponding ratings, visit www.wago.com

Through and Ground Conductor Terminal Block TOPJOB® S; with Push-Button
16 (25 “f-st”) mm²; 2216 Series

1

Technical Data	
0.5 … 16 (25 “f-st”) mm² ❶	20 … 4 AWG
800 V/8 kV/3 ❷	
I_N 76 A (90 A)	
Terminal block width: 12 mm / 0.472 inch	
18 … 20 mm / 0.71 … 0.79 inch	

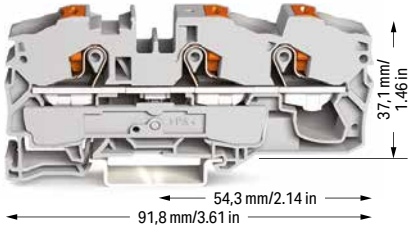


2-conductor through terminal block; with push-button		
Color	Item No.	Pack. Unit
gray	2216-1201	20
blue	2216-1204 ❸	20

2-conductor ground terminal block; with push-button 15 mm high DIN-35 rails shall be used for a current load higher than 76 A!		
green-yellow	2216-1207	50

Accessories; item-specific			
End and intermediate plate; 1 mm thick			
	orange	2016-1292	100 (25)
	gray	2016-1291	100 (25)

Technical Data	
0.5 … 16 (25 “f-st”) mm² ❶	20 … 4 AWG
800 V/8 kV/3 ❷	
I_N 76 A (90 A)	
Terminal block width: 12 mm / 0.472 inch	
18 … 20 mm / 0.71 … 0.79 inch	



3-conductor through terminal block; with push-button		
Color	Item No.	Pack. Unit
gray	2216-1301	20
blue	2216-1304 ❸	20

3-conductor ground terminal block; with push-button 15 mm high DIN-35 rails shall be used for a current load higher than 76 A!		
green-yellow	2216-1307	20

Accessories; item-specific			
End and intermediate plate; 1 mm thick			
	orange	2016-1392	100 (25)
	gray	2016-1391	100 (25)

❶ Conductor range: 0.5 … 16 mm² “s+f-st”, 25 mm² “f-st”; Push-in termination: 6 … 16 mm² “s” and 6 … 16 mm² “insulated ferrules; 18 mm”
Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 800 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

❸ Terminal blocks with a blue insulated housing are suitable for Ex i applications.

Please observe the application notes:
Jumpers, from page 155
Testing accessories, from page 149
Marking, from page 588

Approvals and corresponding ratings, visit www.wago.com

Accessories; 2216 Series

Appropriate marking systems: WMB/WMB Inline/Marking strips

Push-in type jumper bar; insulated; I_N 41 A; light gray			
	2-way	2016-402	25
	3-way	2016-403	25
	4-way	2016-404	25
	5-way	2016-405	25

Push-in type jumper bar; insulated; I_N 41 A; light gray			
	1 to 3	2016-433	25
	1 to 4	2016-434	25
	1 to 5	2016-435	25

Star point jumper; insulated; I_N = I_N terminal block; light gray			
	1-3-5	2016-405/011-000	25

Finger guard; touch-proof cover protects unused conductor entries			
	yellow	2016-100	100 (25)

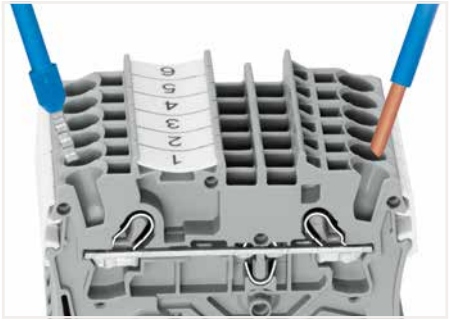
Modular connector; snaps together; for jumper contact slot			
	gray	2016-511	50 (25)

Test plug adapter; for 4 mm Ø test plug			
	gray	2009-174	100 (25)

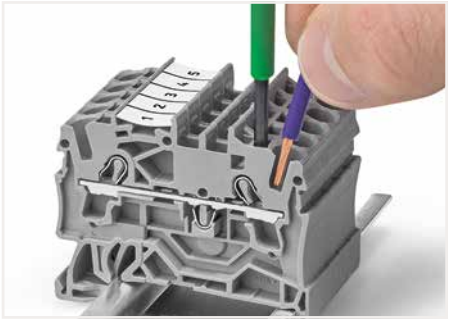
Marking strip; plain; 11 mm wide; 50 m reel			
	white	2009-110	1

WMB marking card; white; 10 strips with 10 markers/card; 5 … 5.2 mm stretchable			
	plain	793-5501	5

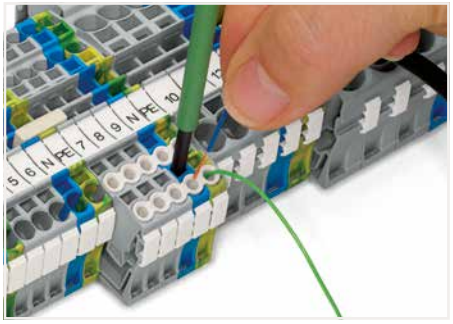
Rail-Mount Terminal Blocks TOPJOB® S; with Push-in CAGE CLAMP®
2000 to 2016 Series
Description and Installation



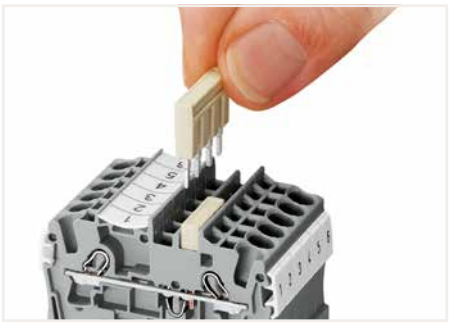
Push-in termination of solid and ferruled conductors



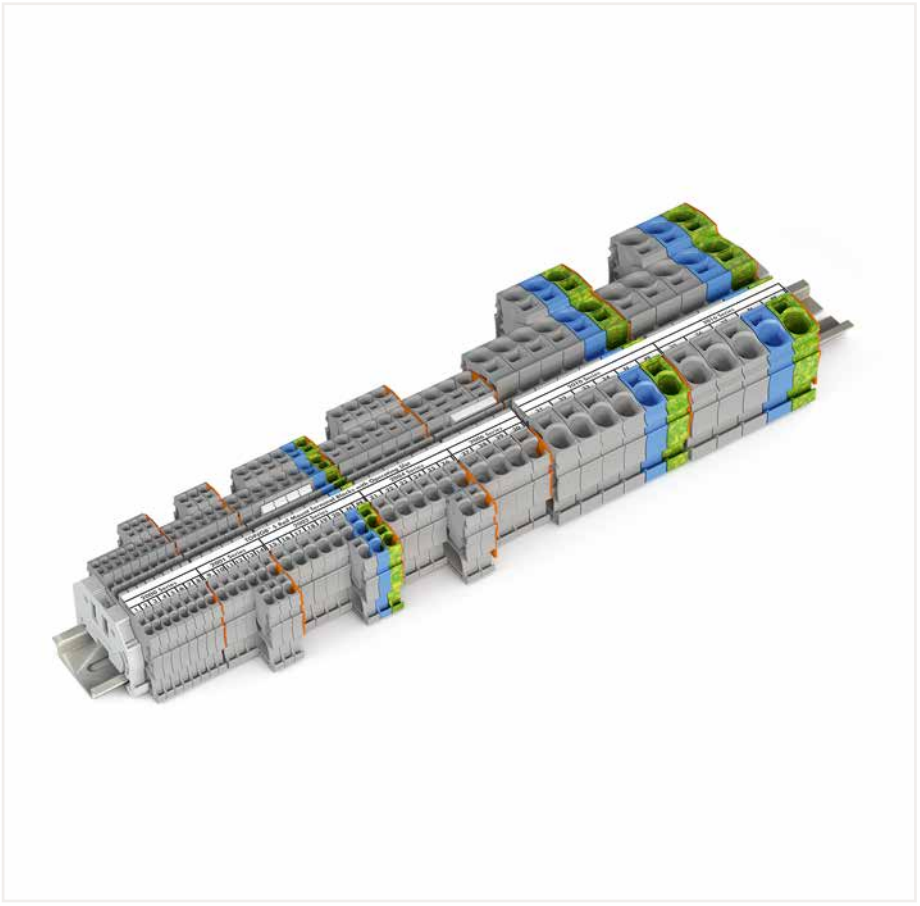
Insert fine-stranded conductors via operating tool.



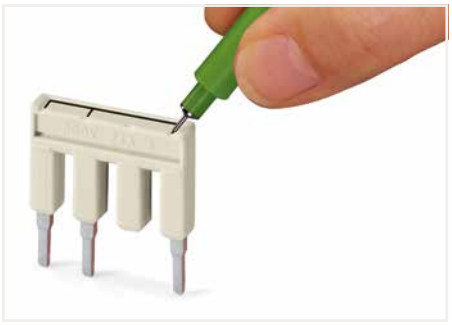
Conductor termination – insulation stop



Insert push-in type jumper bar and push down until it hits backstop.

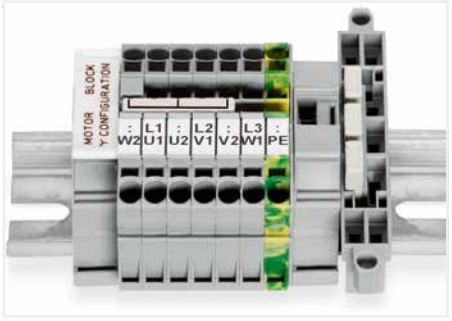


Custom jumpers are created by breaking and removing jumper contacts (2000, 2001, 2002, 2004 Series).



Push-in type jumper bar:
Marking with a felt-tip pen.

Commoning with step-down jumpers.



This star point jumper was specifically developed to create a "star point" and is used on motor terminal boards equipped with Rail-Mount Terminal Blocks TOPJOB® S.

Push-in CAGE CLAMP® terminates the following copper conductors:
solid

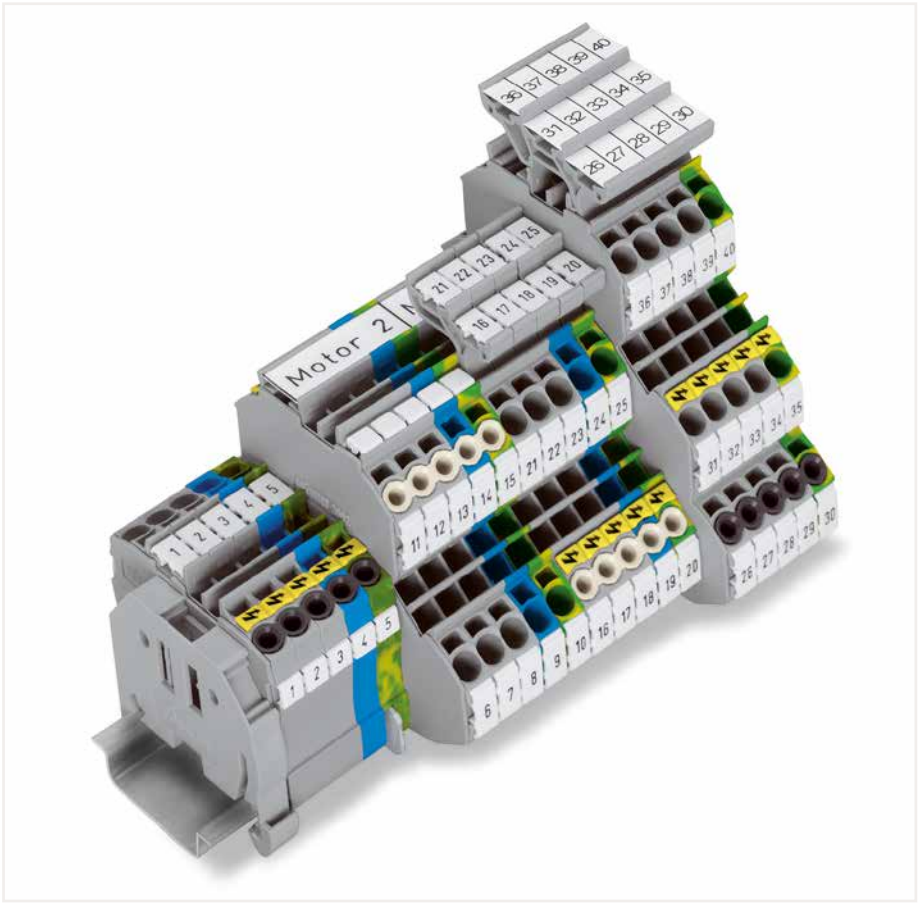
stranded

fine-stranded, also with tinned single strands

Rail-mount terminal block assembly for electric motor wiring

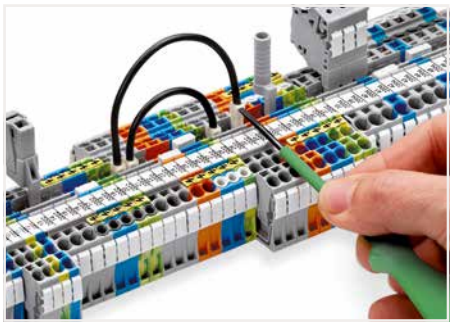
L-type test plug modules fitted in a triple-deck terminal block

Testing tap (2009-182) for tool-free connection of test cables up to 2.5 mm² (12 AWG) – compatible with 2000 to 2016 Series

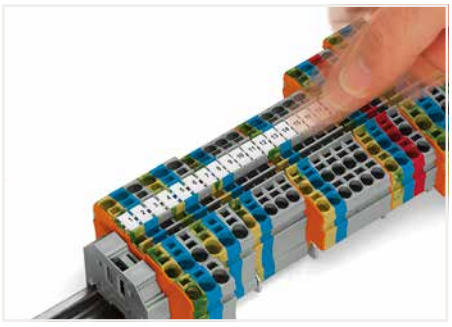


Test plug adapter (2009-174, CAT I) for 4 mm Ø plugs – compatible with 2000 to 2016 Series

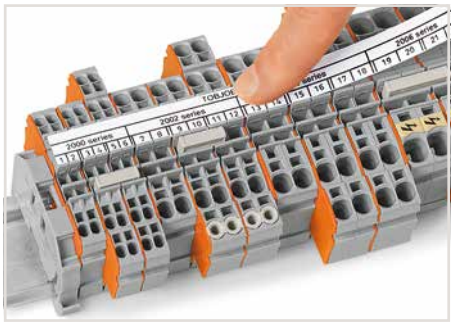
Group marker carrier (2009-163) for marking strips (2009-110)



Push down the wire jumper until fully inserted. Lift the jumper with an operating tool for rewiring.



Snapping a marking strip into the marker slot.



Snapping a marking strip into the marker slot.

fine-stranded, tip-bonded

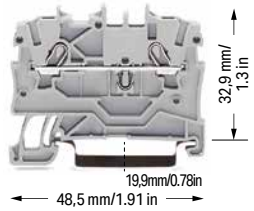
fine-stranded, with ferrule (gastight crimped)

fine-stranded, with pin terminal (gastight crimped)

Through/Ground Conductor/Ex and Double-Potential Terminal Block TOPJOB® S
1 (1.5) mm²; 2000 Series

1

Technical Data	
0.14 … 1 (1.5) mm² ❶	24 … 16 AWG
800 V/8 kV/3 ❷	600 V, 10 A
I_N 13.5 A (18 A)	600 V, 10 A
Terminal block width: 3.5 mm / 0.138 inch	
9 … 11 mm / 0.35 … 0.43 inch	



2-conductor through terminal block

Color	Item No.	Pack. Unit
gray	2000-1201 ❹	100
blue	2000-1204 ❸ ❹	100
orange	2000-1202 ❹	100
red	2000-1203 ❹	100
black	2000-1205 ❹	100
yellow	2000-1206 ❹	100

2-conductor ground terminal block

green-yellow	2000-1207 ❹	100

Accessories; item-specific

End and intermediate plate; 0.7 mm thick

orange	2000-1292	100 (25)
gray	2000-1291	100 (25)

Ex e/Ex i separator; orange; 3 mm thick

90 mm	209-190	50 (25)
120 mm	209-191	50 (25)

Accessories; 2000 Series

Appropriate marking systems: WMB/WMB Inline/Marking strips

Push-in type jumper bar; insulated; I_N 14 A; light gray

2-way	2000-402	25
3-way	2000-403	25
4-way	2000-404	25
5-way	2000-405	25
6-way	2000-406	25
7-way	2000-407	25
8-way	2000-408	25
9-way	2000-409	25
10-way	2000-410	25

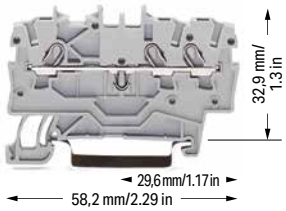
Push-in type jumper bar; insulated; I_N 14 A; light gray

1 to 3	2000-433	25
1 to 4	2000-434	25
1 to 5	2000-435	25
1 to 6	2000-436	25
1 to 7	2000-437	25
1 to 8	2000-438	25
1 to 9	2000-439	25
1 to 10	2000-440	25

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks

yellow	2000-115	100 (25)

Technical Data	
0.14 … 1 (1.5) mm² ❶	24 … 16 AWG
800 V/8 kV/3 ❷	600 V, 10 A
I_N 13.5 A (18 A)	600 V, 10 A
Terminal block width: 3.5 mm / 0.138 inch	
9 … 11 mm / 0.35 … 0.43 inch	



3-conductor through terminal block

Color	Item No.	Pack. Unit
gray	2000-1301 ❹	100
blue	2000-1304 ❸ ❹	100
orange	2000-1302 ❹	100
red	2000-1303 ❹	100
black	2000-1305 ❹	100
yellow	2000-1306 ❹	100

3-conductor ground terminal block

green-yellow	2000-1307 ❹	100

Accessories; item-specific

End and intermediate plate; 0.7 mm thick

orange	2000-1392	100 (25)
gray	2000-1391	100 (25)

Ex e/Ex i separator; orange; 3 mm thick

120 mm	209-191	50 (25)

Delta jumper; insulated; I_N = I_N terminal block; light gray

1-2 3-4 5-6	2000-406/020-000	25

Star point jumper; insulated; I_N = I_N terminal block; light gray

1-3-5	2000-405/011-000	25

Push-in type wire jumper; insulated; 0.75 mm² conductor cross-section; I_N 9 A

L = 60 mm	2009-402	100 (10)
L = 110 mm	2009-404	100 (10)
L = 250 mm	2009-406	100 (10)

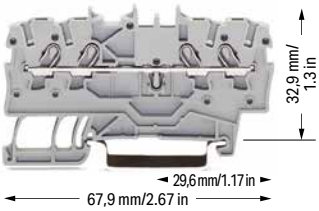
Modular connector; snaps together; for jumper contact slot
Terminal block width: 5 mm / 0.197 inch

gray	2000-511	100 (25)

Modular connector; snaps together; for jumper contact slot

gray	2000-510	100 (25)

Technical Data	
0.14 … 1 (1.5) mm² ❶	24 … 16 AWG
800 V/8 kV/3 ❷	600 V, 10 A
I_N 13.5 A (18 A)	600 V, 10 A
Terminal block width: 3.5 mm / 0.138 inch	
9 … 11 mm / 0.35 … 0.43 inch	



4-conductor through terminal block

Color	Item No.	Pack. Unit
gray	2000-1401 ❹	100
blue	2000-1404 ❸ ❹	100
orange	2000-1402 ❹	100
red	2000-1403 ❹	100
black	2000-1405 ❹	100
yellow	2000-1406 ❹	100

4-conductor ground terminal block

green-yellow	2000-1407 ❹	100

Accessories; item-specific

End and intermediate plate; 0.7 mm thick

orange	2000-1492	100 (25)
gray	2000-1491	100 (25)

Ex e/Ex i separator; orange; 3 mm thick

120 mm	209-191	50 (25)

Spacer module; snaps together; bridges commoned terminal blocks

gray	2000-549	100 (25)

End plate; for modular connector; 1.5 mm thick

gray	2002-541	100 (25)

Test plug adapter; for 4 mm Ø test plug

gray	2009-174	100 (25)

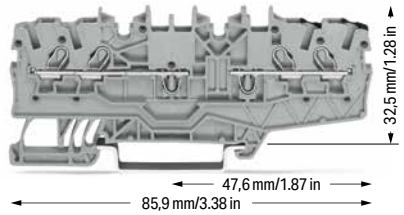
Banana plug; for 4 mm socket diameter; color mixed; 10 x orange, white, black, blue, yellow; max. 42 V

	215-111	50

Testing tap; for max. 2.5 mm²

gray	2009-182	100 (25)

Technical Data	
0.14 … 1 (1.5) mm² ❶	24 … 16 AWG
800 V/8 kV/3 ❷	600 V, 10 A
I_N 13.5 A (18 A)	600 V, 10 A
Terminal block width: 3.5 mm / 0.138 inch	
9 … 11 mm / 0.35 … 0.43 inch	



Double-potential terminal block; both potentials can be commoned		
Color	Item No.	Pack. Unit
gray	2000-2141	100

❶ Conductor range: 0.14 … 1.5 mm² “s+f-st”; Push-in termination: 0.5 … 1.5 mm² “s” and 0.5 … 0.75 mm² “insulated ferrules; 12 mm” Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

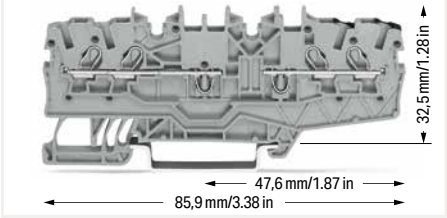
❷ 800 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

❸ Terminal blocks with a blue insulated housing are suitable for Ex i applications.

❹ Terminal blocks with an Ex mark are suitable for Ex e II applications.
550 V; 13 A
12 A jumper
(see Section 14)

Please observe the application notes:
Separator for Ex e/Ex i applications, see page 55
Step-down jumpers, see page 59
Jumpers, from page 152
Testing accessories, from page 146
Marking, from page 588

Approvals and corresponding ratings, visit www.wago.com



Front-entry double-potential terminal blocks are space savers. Two independent feedthrough circuits are placed in one insulated housing on one level in just 3.5 mm. This achieves a width of just 1.75 mm versus standard through terminal blocks. Input and output of a circuit are placed on the same side of the terminal block. Both circuits can be individually marked according to input and output.

Standard and quick marking options:
Three marker slots are available for both individual markers and marking strips.

Accessories; item-specific			
End and intermediate plate; 0.7 mm thick			
	orange	2000-2196	100 (25)
	gray	2000-2195	100 (25)
Test plug; with 500 mm cable; 2 mm Ø; max. 42 V			
	red	210-136	50
Test plug; with 500 mm cable; 2.3 mm Ø; max. 42 V			
	yellow	210-137	50
WMB Inline; plain; 2,300 WMB markers (3.5 mm)/reel			
	white	2009-113	1
Marking strip; plain; 11 mm wide; 50 m reel			
	white	2009-110	1
WMB marking card; white; 10 strips with 10 markers/card; for 3.5 mm terminal block width			
	plain	793-3501	5

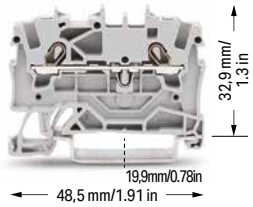
2009-193 Group Marker Carrier (equipped with marking strips) for all 2001 to 2016 Series Rail-Mount Terminal Blocks TOPJOB® S
Do not use on an end plate!

Through/Ground Conductor/Shield Conductor/Ex and Double-Potential Terminal Block TOPJOB® S

1.5 (2.5) mm²; 2001 Series

1

Technical Data	
0.25 … 1.5 (2.5) mm² ❶	22 … 14 AWG
800 V/8 kV/3 ❷	600 V, 15 A
I_N 18 A (24 A)	600 V, 15 A
Terminal block width: 4.2 mm / 0.165 inch	
9 … 11 mm / 0.35 … 0.43 inch	



2-conductor through terminal block

Color	Item No.	Pack. Unit
gray	2001-1201 ❹	100
blue	2001-1204 ❸ ❹	100
orange	2001-1202 ❹	100
red	2001-1203 ❹	100
black	2001-1205 ❹	100
yellow	2001-1206 ❹	100

2-conductor ground terminal block

green-yellow	2001-1207 ❹	100

2-conductor shield terminal block

white	2001-1208	100

Other terminal blocks with the same profile:

Diode	2001-1211/1000-411	Page 128

Accessories; item-specific

End and intermediate plate; 0.8 mm thick

orange	2002-1292	100 (25)
gray	2002-1291	100 (25)

Separator; oversized; 2 mm thick

orange	2002-1294	100 (25)
gray	2002-1293	100 (25)

Ex e/Ex i separator; orange; 3 mm thick

90 mm	209-190	50 (25)
120 mm	209-191	50 (25)

Technical Data	
0.25 … 1.5 (2.5) mm² ❶	22 … 14 AWG
800 V/8 kV/3 ❷	600 V, 15 A
I_N 18 A (24 A)	600 V, 15 A
Terminal block width: 4.2 mm / 0.165 inch	
9 … 11 mm / 0.35 … 0.43 inch	

3-conductor through terminal block

Color	Item No.	Pack. Unit
gray	2001-1301 ❹	100
blue	2001-1304 ❸ ❹	100
orange	2001-1302 ❹	100
red	2001-1303 ❹	100
black	2001-1305 ❹	100
yellow	2001-1306 ❹	100

3-conductor ground terminal block

green-yellow	2001-1307 ❹	100

3-conductor shield terminal block

white	2001-1308	100

Other terminal blocks with the same profile:

Diode	2001-1311/1000-411	Page 128
LED	2001-1321/1000-434	Page 128

Accessories; item-specific

End and intermediate plate; 0.8 mm thick

orange	2002-1392	100 (25)
gray	2002-1391	100 (25)

Separator; oversized; 2 mm thick

orange	2002-1394	100 (25)
gray	2002-1393	100 (25)

Ex e/Ex i separator; orange; 3 mm thick

120 mm	209-191	50 (25)

Technical Data	
0.25 … 1.5 (2.5) mm² ❶	22 … 14 AWG
800 V/8 kV/3 ❷	600 V, 15 A
I_N 18 A (24 A)	600 V, 15 A
Terminal block width: 4.2 mm / 0.165 inch	
9 … 11 mm / 0.35 … 0.43 inch	

4-conductor through terminal block

Color	Item No.	Pack. Unit
gray	2001-1401 ❹	100
blue	2001-1404 ❸ ❹	100
orange	2001-1402 ❹	100
red	2001-1403 ❹	100
black	2001-1405 ❹	100
yellow	2001-1406 ❹	100

4-conductor ground terminal block

green-yellow	2001-1407 ❹	100

4-conductor shield terminal block

white	2001-1408	100

Other terminal blocks with the same profile:

Diode	2001-1411/1000-411	Page 128
LED	2001-1421/1000-434	Page 128

Accessories; item-specific

End and intermediate plate; 0.8 mm thick

orange	2002-1492	100 (25)
gray	2002-1491	100 (25)

Separator; oversized; 2 mm thick

orange	2002-1494	100 (25)
gray	2002-1493	100 (25)

Ex e/Ex i separator; orange; 3 mm thick

120 mm	209-191	50 (25)

Accessories; 2001 Series

Appropriate marking systems: WMB/WMB Inline/Marking strips

Insulation stop; 5 pcs/strip; 0.25 … 0.5 mm²

light gray	2001-171	200 (25)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks

yellow	2001-115	100 (25)

Step-down jumper; insulated; commons 6/4 mm² (10/12 AWG) to 4/2.5/1.5 mm² (12/14/16 AWG); I_N 32 A

light gray	2006-499	25

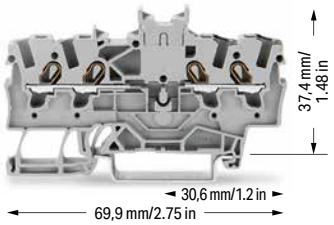
Push-in type jumper bar; insulated; I_N 18 A; light gray

2-way	2001-402	25
3-way	2001-403	25
4-way	2001-404	25
5-way	2001-405	25
6-way	2001-406	25
7-way	2001-407	25
8-way	2001-408	25
9-way	2001-409	25
10-way	2001-410	25

Push-in type jumper bar; insulated; I_N 18 A; light gray

1 to 3	2001-433	25
1 to 4	2001-434	25
1 to 5	2001-435	25
1 to 6	2001-436	25
1 to 7	2001-437	25
1 to 8	2001-438	25
1 to 9	2001-439	25
1 to 10	2001-440	25

Technical Data	
0.25 … 1.5 (2.5) mm² ❶	22 … 14 AWG
800 V/8 kV/3 ❷	600 V, 15 A
I_N 18 A (24 A)	600 V, 15 A
Terminal block width: 4.2 mm / 0.165 inch	
9 … 11 mm / 0.35 … 0.43 inch	



Double-potential terminal block; with double, center marking level

Color	Item No.	Pack. Unit
gray	2001-1441	100

❶ Conductor range: 0.25 … 2.5 mm² "s+f-st"; Push-in termination: 0.75 … 2.5 mm² "s" and 0.75 … 1.5 mm² "insulated ferrules; 12 mm" Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 800 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

❸ Terminal blocks with a blue insulated housing are suitable for Ex i applications.

❹ Terminal blocks with an Ex mark are suitable for Ex e II applications.
550 V; 17 A
16 A jumper
(see Section 14)

Please observe the application notes:
Separator for Ex e/Ex i applications, see page 55
Step-down jumpers, see page 59
Jumpers, from page 155
Testing accessories, from page 146
Marking, from page 588

Approvals and corresponding ratings, visit www.wago.com

Accessories; item-specific

End and intermediate plate; 0.9 mm thick

orange	2002-1492	100 (25)
gray	2002-1491	100 (25)

Separator; oversized; 2 mm thick

orange	2002-1494	100 (25)
gray	2002-1493	100 (25)

Delta jumper; insulated; I_N = I_N terminal block; light gray

1-2 3-4 5-6	2001-406/020-000	25

Star point jumper; insulated; I_N = I_N terminal block; light gray

1-3-5	2001-405/011-000	25

Push-in type wire jumper; insulated; 1.5 mm² conductor cross-section; I_N 18 A

L = 60 mm	2009-412	100 (10)
L = 110 mm	2009-414	100 (10)
L = 250 mm	2009-416	100 (10)

Accessories; 2001 Series

Appropriate marking systems:
WMB/WMB Inline/Marking strips

Modular connector; snaps together; for jumper contact slot

gray	2001-511	100 (25)

Spacer module; snaps together; bridges commoned terminal blocks

gray	2001-549	100 (25)

End plate; for modular connector; 1.5 mm thick

gray	2002-541	100 (25)

Test plug adapter; for 4 mm Ø test plug

gray	2009-174	100 (25)

Banana plug; for 4 mm socket diameter; color mixed; 10 x orange, white, black, blue, yellow; max. 42 V

	215-111	50

Testing tap; for max. 2.5 mm²

gray	2009-182	100 (25)

Test plug; with 500 mm cable; 2 mm Ø; max. 42 V

red	210-136	50

Test plug; with 500 mm cable; 2.3 mm Ø; max. 42 V

yellow	210-137	50

WMB Inline; plain; 2,000 WMB markers (4 mm)/reel; 4 … 4.2 mm stretchable

white	2009-114	1

Accessories; 2001 Series

Appropriate marking systems:
WMB/WMB Inline/Marking strips

Marking strip; plain; 11 mm wide; 50 m reel

white	2009-110	1

WMB marking card; white; 10 strips with 10 markers/card; 4 … 4.2 mm stretchable

plain	793-4501	5

WMB marking card; plain; 10 strips with 10 markers/card; 4 … 4.2 mm stretchable

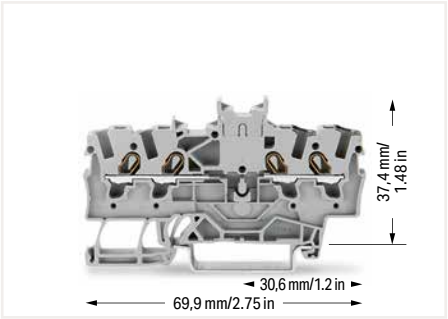
yellow	793-4501/000-002	5
red	793-4501/000-005	5
blue	793-4501/000-006	5
gray	793-4501/000-007	5
orange	793-4501/000-012	5
light green	793-4501/000-017	5
green	793-4501/000-023	5
violet	793-4501/000-024	5

Screwless end stop; for DIN-35 rail; 6 mm wide

gray	249-116	100 (25)

Screwless end stop; for DIN-35 rail; 10 mm wide

gray	249-117	50 (25)



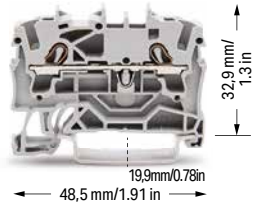
Notice: These double-potential terminal blocks cannot be commoned with push-in type jumper bars!
Front-entry double-potential terminal blocks are space savers. Two independent feedthrough circuits are placed in one insulated housing on one level in just 4.2 mm. This achieves a width of just 2.1 mm versus standard through terminal blocks. Input and output of a circuit are placed on the same side of the terminal block. Both circuits can be individually marked according to input and output.

Through/Ground Conductor/Shield Conductor/Ex and Double-Potential Terminal Block TOPJOB® S

2.5 (4) mm²; 2002 Series

1

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
800 V/8 kV/3 ❷	600 V, 20 A
I_N 24 A (32 A)	600 V, 20 A
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



2-conductor through terminal block

Color	Item No.	Pack. Unit
gray	2002-1201 ❹	100
blue	2002-1204 ❸ ❹	100
orange	2002-1202 ❹	100
red	2002-1203 ❹	100
black	2002-1205 ❹	100
yellow	2002-1206 ❹	100

2-conductor ground terminal block

green-yellow	2002-1207 ❹	100

2-conductor shield terminal block

white	2002-1208	100

Other terminal blocks with the same profile:

Diode	2002-1211/1000-411	Page 130

Accessories; item-specific

End and intermediate plate; 0.8 mm thick

orange	2002-1292	100 (25)
gray	2002-1291	100 (25)

Separator; oversized; 2 mm thick

orange	2002-1294	100 (25)
gray	2002-1293	100 (25)

Ex e/Ex i separator; orange; 3 mm thick

90 mm	209-190	50 (25)
120 mm	209-191	50 (25)

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
800 V/8 kV/3 ❷	600 V, 20 A
I_N 24 A (32 A)	600 V, 20 A
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	

3-conductor through terminal block

Color	Item No.	Pack. Unit
gray	2002-1301 ❹	100
blue	2002-1304 ❸ ❹	100
orange	2002-1302 ❹	100
red	2002-1303 ❹	100
black	2002-1305 ❹	100
yellow	2002-1306 ❹	100

3-conductor ground terminal block

green-yellow	2002-1307 ❹	100

3-conductor shield terminal block

white	2002-1308	100

Other terminal blocks with the same profile:

Diode	2002-1311/1000-411	Page 130
LED	2002-1321/1000-434	Page 130

Accessories; item-specific

End and intermediate plate; 0.8 mm thick

orange	2002-1392	100 (25)
gray	2002-1391	100 (25)

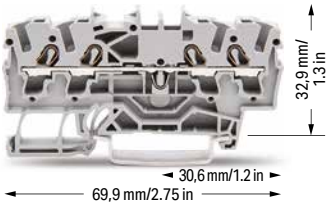
Separator; oversized; 2 mm thick

orange	2002-1394	100 (25)
gray	2002-1393	100 (25)

Ex e/Ex i separator; orange; 3 mm thick

120 mm	209-191	50 (25)

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
800 V/8 kV/3 ❷	600 V, 20 A
I_N 24 A (32 A)	600 V, 20 A
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



4-conductor through terminal block

Color	Item No.	Pack. Unit
gray	2002-1401 ❹	100
blue	2002-1404 ❸ ❹	100
orange	2002-1402 ❹	100
red	2002-1403 ❹	100
black	2002-1405 ❹	100
yellow	2002-1406 ❹	100

4-conductor ground terminal block

green-yellow	2002-1407 ❹	100

4-conductor shield terminal block

white	2002-1408	100

Other terminal blocks with the same profile:

Diode	2002-1411/1000-411	Page 130
LED	2002-1421/1000-434	Page 130

Accessories; item-specific

End and intermediate plate; 0.8 mm thick

orange	2002-1492	100 (25)
gray	2002-1491	100 (25)

Separator; oversized; 2 mm thick

orange	2002-1494	100 (25)
gray	2002-1493	100 (25)

Ex e/Ex i separator; orange; 3 mm thick

120 mm	209-191	50 (25)

Accessories; 2002 Series

Appropriate marking systems: WMB/WMB Inline/Marking strips

Insulation stop; 5 pcs/strip; 0.25 … 0.5 mm²

light gray	2002-171	200 (25)

Insulation stop; 5 pcs/strip; 0.75 … 1 mm²

dark gray	2002-172	200 (25)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks

yellow	2002-115	100 (25)

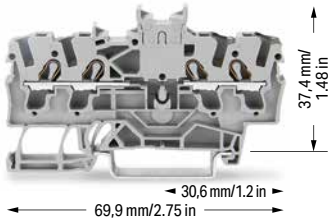
Push-in type jumper bar; insulated; I_N 25 A; light gray

2-way	2002-402	25
3-way	2002-403	25
4-way	2002-404	25
5-way	2002-405	25
6-way	2002-406	25
7-way	2002-407	25
8-way	2002-408	25
9-way	2002-409	25
10-way	2002-410	25

Push-in type jumper bar; insulated; I_N 25 A; light gray

1 to 3	2002-433	25
1 to 4	2002-434	25
1 to 5	2002-435	25
1 to 6	2002-436	25
1 to 7	2002-437	25
1 to 8	2002-438	25
1 to 9	2002-439	25
1 to 10	2002-440	25

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
800 V/8 kV/3 ❷	600 V, 20 A
I_N 24 A (32 A)	600 V, 20 A
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



Double-potential terminal block; with double, center marking level

Color	Item No.	Pack. Unit
gray	2002-1441 ❹	100

❶ Conductor range: 0.25 … 4 mm² "s+f-st";
Push-in termination: 1 … 4 mm² "s" and 1 … 2.5 mm² "insulated ferrules, 12 mm"
Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 800 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

❸ Terminal blocks with a blue insulated housing are suitable for Ex i applications.

❹ Terminal blocks with an Ex mark are suitable for Ex e II applications.
550 V; 22 A
20 A jumper
(see Section 14)

Please observe the application notes:
Separator for Ex e/Ex i applications, see page 55
Step-down jumpers, see page 59
Jumpers, from page 152
Testing accessories, from page 146
Marking, from page 588

Approvals and corresponding ratings, visit www.wago.com

Accessories; item-specific

End and intermediate plate; 0.9 mm thick

orange	2002-1492	100 (25)
gray	2002-1491	100 (25)

Separator; oversized; 2 mm thick

orange	2002-1494	100 (25)
gray	2002-1493	100 (25)

Delta jumper; insulated; I_N = I_N terminal block; light gray

1-2 3-4 5-6	2002-406/020-000	25

Star point jumper; insulated; I_N = I_N terminal block; light gray

1-3-5	2002-405/011-000	25

Push-in type wire jumper; insulated; 1.5 mm² conductor cross-section; I_N 18 A

L = 60 mm	2009-412	100 (10)
L = 110 mm	2009-414	100 (10)
L = 250 mm	2009-416	100 (10)

Accessories; 2002 Series

Appropriate marking systems:
WMB/WMB Inline/Marking strips

Staggered jumper; insulated; I_N 25 A; light gray

2-way	2002-472	25
3-way	2002-473	25
4-way	2002-474	25
5-way	2002-475	25
6-way	2002-476	25
7-way	2002-477	25
8-way	2002-478	25
9-way	2002-479	25
10-way	2002-480	25
11-way	2002-481	25
12-way	2002-482	25

Customized staggered jumper; insulated; with contact lugs broken off at the factory and circuit printing; I_N 25 A; light gray

1-3	2002-473/011-000	25
1-3-5	2002-475/011-000	25
1-3-5-7	2002-477/011-000	25
1-3-5-7-9	2002-479/011-000	25
1-3-5-7-9-11	2002-481/011-000	25

Step-down jumper; insulated; commons 6/4 mm² (10/12 AWG) to 4/2.5/1.5 mm² (12/14/16 AWG); I_N 32 A

light gray	2006-499	25

Adjacent jumper for continuous commoning; insulated; I_N 25 A, light gray

2-way	2002-400	25

Adjacent jumper for continuous commoning; insulated; I_N 25 A; 1 to 3

light gray	2002-423	25
red	2002-423/000-005	25
blue	2002-423/000-006	25

Adjacent jumper for continuous commoning; insulated; I_N 25 A, light gray

5-way	2002-415	25

Accessories; 2002 Series

Appropriate marking systems:
WMB/WMB Inline/Marking strips

Modular connector; snaps together; for jumper contact slot

gray	2002-511	100 (25)

Spacer module; snaps together; bridges commoned terminal blocks

gray	2002-549	100 (25)

End plate; for modular connector; 1.5 mm thick

gray	2002-541	100 (25)

L-type test plug module; snaps together

gray	2002-611	100 (25)

L-type spacer module; snaps together; bridges commoned terminal blocks

gray	2002-649	100 (25)

End plate; for modular test plug module; 1.5 mm thick

gray	2002-641	100 (25)

WMB Inline, plain; 1,500 WMB markers (5 mm)/reel; 5 … 5.2 mm stretchable

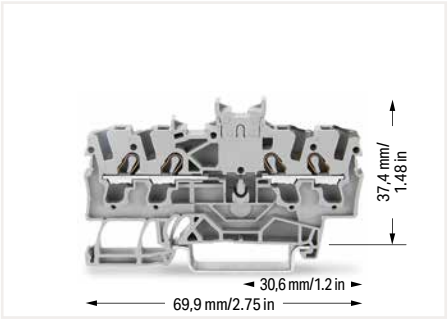
white	2009-115	1

Marking strip; plain; 11 mm wide; 50 m reel

white	2009-110	1

WMB marking card; white; 10 strips with 10 markers/card; 5 … 5.2 mm stretchable

plain	793-5501	5



Notice: These double-potential terminal blocks cannot be commoned with push-in type jumper bars! Front-entry double-potential terminal blocks are space savers. Two independent feedthrough circuits are placed in one insulated housing on one level in just 5.2 mm. This achieves a width of just 2.6 mm versus standard through terminal blocks. Input and output of a circuit are placed on the same side of the terminal block. Both circuits can be individually marked according to input and output.

Through/Ground Conductor/Shield Conductor/Ex Terminal Block TOPJOB® S
2.5 (4) mm²; 2002 Series

1

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
800 V/8 kV/3 ❷	600 V, 20 A
I_N 24 A (32 A)	600 V, 20 A
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	

3-conductor through terminal block

Color	Item No.	Pack. Unit
gray	2002-6301 ❹	100
blue	2002-6304 ❸ ❹	100
orange	2002-6302 ❹	100
red	2002-6303 ❹	100
black	2002-6305 ❹	100
yellow	2002-6306 ❹	100

3-conductor ground terminal block

green-yellow	2002-6307 ❹	100

3-conductor shield terminal block

white	2002-6308	100

Accessories; 2002 Series

Appropriate marking systems:
WMB/WMB Inline/Marking strips

End and intermediate plate; 0.8 mm thick

orange	2002-6392	100 (25)
gray	2002-6391	100 (25)

Ex e/Ex i separator; orange; 3 mm thick

120 mm	209-191	50 (25)

Insulation stop; 5 pcs/strip; 0.25 … 0.5 mm²

light gray	2002-171	200 (25)

Insulation stop; 5 pcs/strip; 0.75 … 1 mm²

dark gray	2002-172	200 (25)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks

yellow	2002-115	100 (25)

Push-in type jumper bar; insulated; I_N 25 A; light gray

2-way	2002-402	25
3-way	2002-403	25
4-way	2002-404	25
5-way	2002-405	25
6-way	2002-406	25
7-way	2002-407	25
8-way	2002-408	25
9-way	2002-409	25
10-way	2002-410	25

❶ Conductor range: 0.25 … 4 mm² "s+f-st";
Push-in termination: 1 … 4 mm² "s" and 1 … 2.5 mm² "insulated ferrules, 12 mm"
Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 800 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

❸ Terminal blocks with a blue insulated housing are suitable for Ex i applications.

❹ Terminal blocks with an Ex mark are suitable for Ex e II applications.
550 V; 22 A
20 A jumper
(see Section 14)

Please observe the application notes:
Separator for Ex e/Ex i applications, see page 55
Step-down jumpers, see page 59
Jumpers, from page 152
Testing accessories, from page 146
Marking, from page 588

Approvals and corresponding ratings, visit www.wago.com

Accessories; 2002 Series

Appropriate marking systems:
WMB/WMB Inline/Marking strips

Push-in type jumper bar; insulated; I_N 25 A; light gray

1 to 3	2002-433	25
1 to 4	2002-434	25
1 to 5	2002-435	25
1 to 6	2002-436	25
1 to 7	2002-437	25
1 to 8	2002-438	25
1 to 9	2002-439	25
1 to 10	2002-440	25

Delta jumper; insulated; I_N = I_N terminal block; light gray

1-2 3-4 5-6	2002-406/020-000	25

Star point jumper; insulated; I_N = I_N terminal block; light gray

1-3-5	2002-405/011-000	25

Staggered jumper; insulated; I_N 25 A; light gray

2-way	2002-472	25
3-way	2002-473	25
4-way	2002-474	25
5-way	2002-475	25
6-way	2002-476	25
7-way	2002-477	25
8-way	2002-478	25
9-way	2002-479	25
10-way	2002-480	25
11-way	2002-481	25
12-way	2002-482	25

Customized staggered jumper; insulated; with contact lugs broken off at the factory and circuit printing; I_N 25 A; light gray

1-3	2002-473/011-000	25
1-3-5	2002-475/011-000	25
1-3-5-7	2002-477/011-000	25
1-3-5-7-9	2002-479/011-000	25
1-3-5-7-9-11	2002-481/011-000	25

Adjacent jumper for continuous commoning; insulated; I_N 25 A, light gray

2-way	2002-400	25

Accessories; 2002 Series

Appropriate marking systems:
WMB/WMB Inline/Marking strips

Adjacent jumper for continuous commoning; insulated; I_N 25 A; 1 to 3

light gray	2002-423	25
red	2002-423/000-005	25
blue	2002-423/000-006	25

Adjacent jumper for continuous commoning; insulated; I_N 25 A, light gray

5-way	2002-415	25

Push-in type wire jumper; insulated; 1.5 mm² conductor cross-section; I_N 18 A

L = 60 mm	2009-412	100 (10)
L = 110 mm	2009-414	100 (10)
L = 250 mm	2009-416	100 (10)

Modular connector; snaps together; for jumper contact slot

gray	2002-511	100 (25)

Spacer module; snaps together; bridges commoned terminal blocks

gray	2002-549	100 (25)

End plate; for modular connector; 1.5 mm thick

gray	2002-541	100 (25)

L-type test plug module; snaps together

gray	2002-611	100 (25)

L-type spacer module; snaps together; bridges commoned terminal blocks

gray	2002-649	100 (25)

End plate; for modular test plug module; 1.5 mm thick

gray	2002-641	100 (25)

WMB Inline, plain; 1,500 WMB markers (5 mm)/reel; 5 … 5.2 mm stretchable

white	2009-115	1

Marking strip; plain; 11 mm wide; 50 m reel

white	2009-110	1

WMB marking card; white; 10 strips with 10 markers/card; 5 … 5.2 mm stretchable

plain	793-5501	5

Through/Ground Conductor/Ex Terminal Block TOPJOB® S
2.5 (4) mm²; 2002 Series

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
800 V/8 kV/3 ❶	600 V, 20 A
I_N 24 A (32 A)	600 V, 20 A
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	

❶ Conductor range: 0.25 … 4 mm² "s+f-st"; Push-in termination: 1 … 4 mm² "s" and 1 … 2.5 mm² "insulated ferrules, 12 mm" Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 800 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

❸ Terminal blocks with a blue insulated housing are suitable for Ex i applications.

❹ Terminal blocks with an Ex mark are suitable for Ex e II applications.
550 V; 22 A
20 A jumper
(see Section 14)

Please observe the application notes:
Separator for Ex e/Ex i applications, see page 55
Marking, from page 588

Approvals and corresponding ratings, visit www.wago.com

4-conductor through terminal block
Notice: This terminal block cannot be commoned with push-in type jumper bars!

Color	Item No.	Pack. Unit
gray	2002-6401 ❹	100
blue	2002-6404 ❸ ❹	100
orange	2002-6402 ❹	100
red	2002-6403 ❹	100
black	2002-6405 ❹	100
yellow	2002-6406 ❹	100

4-conductor ground terminal block

green-yellow	2002-6407 ❹	100

Accessories; 2002 Series

Appropriate marking systems:
WMB/WMB Inline/Marking strips

End and intermediate plate; 0.8 mm thick

orange	2002-6392	100 (25)
gray	2002-6391	100 (25)

Ex e/Ex i separator; orange; 3 mm thick

120 mm	209-191	50 (25)

Insulation stop; 5 pcs/strip; 0.25 … 0.5 mm²

light gray	2002-171	200 (25)

Insulation stop; 5 pcs/strip; 0.75 … 1 mm²

dark gray	2002-172	200 (25)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks

yellow	2002-115	100 (25)

WMB Inline, plain; 1,500 WMB markers (5 mm)/reel; 5 … 5.2 mm stretchable

white	2009-115	1

Marking strip; plain; 11 mm wide; 50 m reel

white	2009-110	1

Accessories; 2002 Series

Appropriate marking systems:
WMB/WMB Inline/Marking strips

WMB marking card; white; 10 strips with 10 markers/card; 5 … 5.2 mm stretchable

plain	793-5501	5

WMB marking card; plain; 10 strips with 10 markers/card; 5 … 5.2 mm stretchable

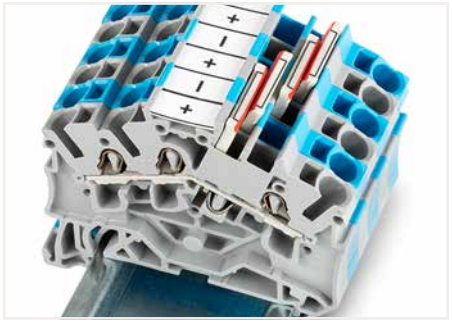
yellow	793-5501/000-002	5
red	793-5501/000-005	5
blue	793-5501/000-006	5
gray	793-5501/000-007	5
orange	793-5501/000-012	5
light green	793-5501/000-017	5
green	793-5501/000-023	5
violet	793-5501/000-024	5

Screwless end stop; for DIN-35 rail; 6 mm wide

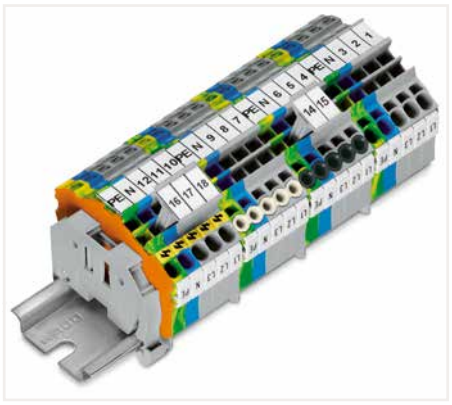
gray	249-116	100 (25)

Screwless end stop; for DIN-35 rail; 10 mm wide

gray	249-117	50 (25)



3- and 4-conductor terminal blocks (angled type):
WAGO's Rail-Mount Terminal Blocks TOPJOB® S have a 35-degree conductor entry angle permitting a very small bend radius and an extremely short wiring distance to the cable duct. These are space- and cost-saving solutions for switchgear and control cabinet applications that use the LSC wiring system from Lütze. The design allows cable duct to be placed very close to the terminal blocks, keeping its height relatively low.



Product features:
- Push-in CAGE CLAMP® connection for all conductor types, with the additional benefit of solid, stranded and fine-stranded conductors with ferrules being simply pushed in
- Vibration-proof, fast, maintenance-free
- 3-conductor through and ground conductor terminal blocks equipped with a dual jumper slot
- 4-conductor terminal blocks permit potential multiplication – no additional jumpers or terminal blocks needed
- 3- and 4-conductor terminal blocks have the same dimensions.
- An end plate must be applied when changing from a 3-conductor terminal block to a 4-conductor terminal block and vice versa.

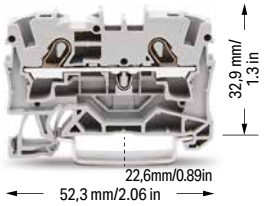
Through/Ground Conductor/Shield Conductor/Ex Terminal Block TOPJOB® S
4 (6) mm²; 2004 Series

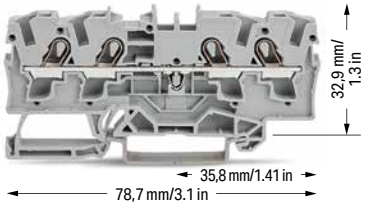
1

Technical Data	
0.5 … 4 (6) mm² ❶	20 … 10 AWG
800 V/8 kV/3 ❷	600 V, 30 A
I_N 32 A (41 A)	600 V, 30 A
Terminal block width: 6.2 mm / 0.244 inch	
11 … 13 mm / 0.43 … 0.51 inch	

Technical Data	
0.5 … 4 (6) mm² ❶	20 … 10 AWG
800 V/8 kV/3 ❷	600 V, 30 A
I_N 32 A (41 A)	600 V, 30 A
Terminal block width: 6.2 mm / 0.244 inch	
11 … 13 mm / 0.43 … 0.51 inch	

Technical Data	
0.5 … 4 (6) mm² ❶	20 … 10 AWG
800 V/8 kV/3 ❷	600 V, 30 A
I_N 32 A (41 A)	600 V, 30 A
Terminal block width: 6.2 mm / 0.244 inch	
11 … 13 mm / 0.43 … 0.51 inch	





2-conductor through terminal block

Color	Item No.	Pack. Unit
gray	2004-1201 ❹	50
blue	2004-1204 ❸ ❹	50
orange	2004-1202 ❹	50
red	2004-1203 ❹	50
black	2004-1205 ❹	50
yellow	2004-1206 ❹	50

2-conductor ground terminal block

green-yellow	2004-1207 ❹	50

3-conductor through terminal block

Color	Item No.	Pack. Unit
gray	2004-1301 ❹	50
blue	2004-1304 ❸ ❹	50
orange	2004-1302 ❹	50
red	2004-1303 ❹	50
black	2004-1305 ❹	50
yellow	2004-1306 ❹	50

3-conductor ground terminal block

green-yellow	2004-1307 ❹	50

4-conductor through terminal block

Color	Item No.	Pack. Unit
gray	2004-1401 ❹	50
blue	2004-1404 ❸ ❹	50
orange	2004-1402 ❹	50
red	2004-1403 ❹	50
black	2004-1405 ❹	50
yellow	2004-1406 ❹	50

4-conductor ground terminal block

green-yellow	2004-1407 ❹	50

4-conductor shield terminal block

white	2004-1408	50

Other terminal blocks with the same profile:

Diode	2004-1211/1000-401	Page 132

Other terminal blocks with the same profile:

Diode	2004-1311/1000-401	Page 132

Other terminal blocks with the same profile:

Diode	2004-1411/1000-401	Page 132

Accessories; item-specific

End and intermediate plate; 1 mm thick

orange	2004-1292	100 (25)
gray	2004-1291	100 (25)

Separator; oversized; 2 mm thick

orange	2004-1294	100 (25)
gray	2004-1293	100 (25)

Ex e/Ex i separator; orange; 3 mm thick

90 mm	209-190	50 (25)
120 mm	209-191	50 (25)

Accessories; item-specific

End and intermediate plate; 1 mm thick

orange	2004-1392	100 (25)
gray	2004-1391	100 (25)

Separator; oversized; 2 mm thick

orange	2004-1394	100 (25)
gray	2004-1393	100 (25)

Ex e/Ex i separator; orange; 3 mm thick

120 mm	209-191	50 (25)

Accessories; item-specific

End and intermediate plate; 1 mm thick

orange	2004-1492	100 (25)
gray	2004-1491	100 (25)

Separator; oversized; 2 mm thick

orange	2004-1494	100 (25)
gray	2004-1493	100 (25)

Ex e/Ex i separator; orange; 3 mm thick

120 mm	209-191	50 (25)

Accessories; 2004 Series

Appropriate marking systems: WMB/WMB Inline/Marking strips

Insulation stop; 5 pcs/strip; 0.25 … 0.5 mm²

light gray	2004-171	200 (25)

Insulation stop; 5 pcs/strip; 0.75 … 1 mm²

dark gray	2004-172	200 (25)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks

yellow	2004-115	100 (25)

Delta jumper; insulated; I_N = I_N terminal block; light gray

1-2 3-4 5-6	2004-406/020-000	25

Push-in type jumper bar; insulated; I_N 32 A; light gray

2-way	2004-402	25
3-way	2004-403	25
4-way	2004-404	25
5-way	2004-405	25
6-way	2004-406	25
7-way	2004-407	25
8-way	2004-408	25
9-way	2004-409	25
10-way	2004-410	25

Star point jumper; insulated; I_N = I_N terminal block; light gray

1-3-5	2004-405/011-000	25

Push-in type jumper bar; insulated; I_N 32 A; light gray

1 to 3	2004-433	25
1 to 4	2004-434	25
1 to 5	2004-435	25
1 to 6	2004-436	25
1 to 7	2004-437	25
1 to 8	2004-438	25
1 to 9	2004-439	25
1 to 10	2004-440	25

Step-down jumper; insulated; commons 6/4 mm² (10/12 AWG) to 4/2.5/1.5 mm² (12/14/16 AWG); I_N 32 A

light gray	2006-499	25

❶ Conductor range: 0.5 … 6 mm² "s+f-st";
Push-in termination: 1.5 … 6 mm² "s" and 1.5 … 4 mm² "insulated ferrules; 12 mm"
Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 800 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

❸ Terminal blocks with a blue insulated housing are suitable for Ex i applications.

❹ Terminal blocks with an Ex mark are suitable for Ex e II applications.
550 V; 30 A
(see Section 14)

Please observe the application notes:
Separator for Ex e/Ex i applications, see page 55
Step-down jumpers, see page 59
Jumpers, from page 155
Testing accessories, from page 148
Marking, from page 588

Approvals and corresponding ratings, visit www.wago.com

Accessories; 2004 Series

Appropriate marking systems:
WMB/WMB Inline/Marking strips

Modular connector; snaps together; for jumper contact slot

gray	**2004-511**	100 (25)

Spacer module; snaps together; bridges commoned terminal blocks

gray	**2004-549**	100 (25)

End plate; for modular connector; 1.5 mm thick

gray	**2004-541**	100 (25)

Test plug adapter; for 4 mm Ø test plug

gray	**2009-174**	100 (25)

Banana plug; for 4 mm socket diameter; color mixed; 10 x orange, white, black, blue, yellow; max. 42 V

	215-111	50

Testing tap; for max. 2.5 mm²

gray	**2009-182**	100 (25)

Marking strip; plain; 11 mm wide; 50 m reel

white	**2009-110**	1

WMB marking card; white; 10 strips with 10 markers/card; 5 … 5.2 mm stretchable

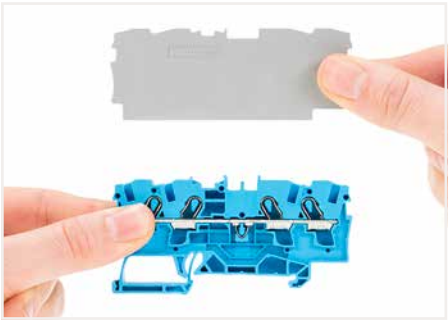
plain	**793-5501**	5

Group marker carrier; snap-on type for jumper slot; 5 mm wide

gray	**2009-191**	50 (25)

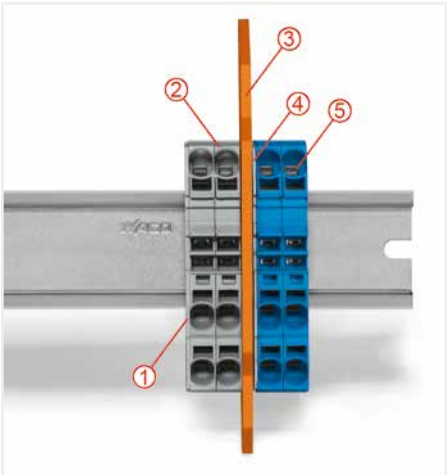
Through terminal blocks with a blue insulated housing are suitable for Ex i applications.

All through and ground conductor terminal blocks are suitable for Ex e II applications.



Separator for Ex e/Ex i applications:
An end plate must be applied to the terminal block located directly behind an Ex e/Ex i separator plate.

Ex e II/Ex i terminal strip
Notice:
The movable feet of terminal blocks and separator plates must face the same direction.



Separator located between Ex e II and Ex i terminal strip
① **End plate**
② **Ex e II terminal blocks**
③ **Separator for Ex e/Ex i applications**
④ **End plate**
⑤ **Ex i terminal blocks**

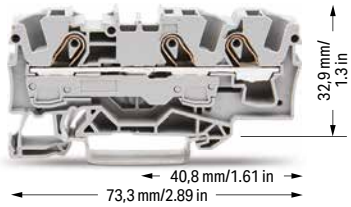
Example of marking (rear):
The embossed details on the terminal blocks show the manufacturer's name, the series no., the type of protection Ex e II, the approval no., the approval data and the name of the testing authority.

Through/Ground Conductor/Shield Conductor/Ex Terminal Block TOPJOB® S
6 (10) mm²; 2006 Series

1

Technical Data	
0.5 … 6 (10) mm² ❶	20 … 8 AWG
800 V/8 kV/3 ❷	600 V, 50 A
I_N 41 A (57 A)	600 V, 50 A
Terminal block width: 7.5 mm / 0.295 inch	
13 … 15 mm / 0.51 … 0.59 inch	

Technical Data	
0.5 … 6 (10) mm² ❶	20 … 8 AWG
800 V/8 kV/3 ❷	600 V, 50 A
I_N 41 A (57 A)	600 V, 50 A
Terminal block width: 7.5 mm / 0.295 inch	
13 … 15 mm / 0.51 … 0.59 inch	



❶ Conductor range: 0.5 … 10 mm² "s+f-st"; Push-in termination: 2.5 … 10 mm² "s" and 2.5 … 6 mm² "insulated ferrules; 12 mm" Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 800 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

❸ Terminal blocks with a blue insulated housing are suitable for Ex i applications.

❹ Terminal blocks with an Ex mark are suitable for Ex e II applications.
550 V; 38 A; for 2-conductor terminal blocks
550 V; 36 A; for 3-conductor terminal blocks
33 A jumper
(see Section 14)

Please observe the application notes:
Separator for Ex e/Ex i applications, see page 55
Step-down jumpers, see page 59
Jumpers, from page 155
Testing accessories, from page 148
Marking, from page 588

Approvals and corresponding ratings, visit www.wago.com

2-conductor through terminal block

Color	Item No.	Pack. Unit
gray	2006-1201 ❹	50
blue	2006-1204 ❸ ❹	50
orange	2006-1202 ❹	50

3-conductor through terminal block

Color	Item No.	Pack. Unit
gray	2006-1301 ❹	25
blue	2006-1304 ❸ ❹	25
orange	2006-1302 ❹	25
black	2006-1305 ❹	25

2-conductor ground terminal block

green-yellow	2006-1207 ❹	50

3-conductor ground terminal block

green-yellow	2006-1307 ❹	25

2-conductor shield terminal block

white	2006-1208	50

Cover (2006-191) seals unused conductor entry.

Accessories; item-specific

End and intermediate plate; 1 mm thick

orange	2006-1292	100 (25)
gray	2006-1291	100 (25)

orange	2006-1392	100 (25)
gray	2006-1391	100 (25)

Separator; oversized; 2 mm thick

orange	2006-1294	100 (25)
gray	2006-1293	100 (25)

orange	2006-1394	100 (25)
gray	2006-1393	100 (25)

Accessories; 2006 Series

Appropriate marking systems: WMB/WMB Inline/Marking strips

Ex e/Ex i separator; orange; 3 mm thick

120 mm	209-191	50 (25)

Push-in type jumper bar; insulated; I_N 41 A; light gray

2-way	2006-402	25
3-way	2006-403	25
4-way	2006-404	25
5-way	2006-405	25

Push-in type jumper bar; insulated; I_N 41 A; light gray

1 to 3	2006-433	25
1 to 4	2006-434	25
1 to 5	2006-435	25

Star point jumper; insulated; I_N = I_N terminal block; light gray

1-3-5	2006-405/011-000	25

Step-down jumper; insulated; commons 6/4 mm² (10/12 AWG) to 4/2.5/1.5 mm² (12/14/16 AWG); I_N 32 A

light gray	2006-499	25

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks

yellow	2006-115	100 (25)

Lockout cap; for conductor entry and operating slot

gray	2006-191	25

Modular connector; snaps together; for jumper contact slot

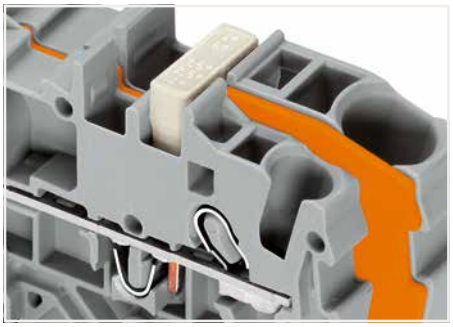
gray	2006-511	50 (25)

Test plug adapter; for 4 mm Ø test plug

gray	2009-174	100 (25)

Marking strip; plain; 11 mm wide; 50 m reel

white	2009-110	1

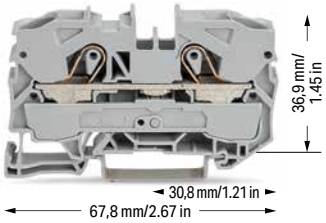


Commoning with step-down jumpers.

PUSH-IN CAGE CLAMP®

Through/Ground Conductor/Shield Conductor/Ex Terminal Block TOPJOB® S
10 (16) mm²; 2010 Series

Technical Data	
0.5 … 10 (16) mm² ❶	20 … 6 AWG
800 V/8 kV/3 ❷	600 V, 65 A
I_N 57 A (76 A)	600 V, 65 A
Terminal block width: 10 mm / 0.394 inch	
17 … 19 mm / 0.67 … 0.91 inch	



2-conductor through terminal block		
Color	Item No.	Pack. Unit
gray	2010-1201 ❹	25
blue	2010-1204 ❸ ❹	25
orange	2010-1202 ❹	25
black	2010-1205 ❹	25

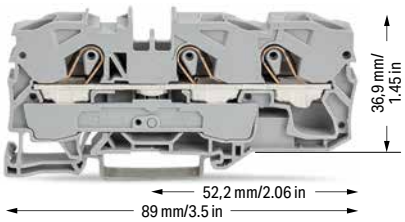
2-conductor ground terminal block		
green-yellow	2010-1207 ❹	25

2-conductor shield terminal block		
white	2010-1208	25

Accessories; item-specific			
End and intermediate plate; 1 mm thick			
	orange	2010-1292	100 (25)
	gray	2010-1291	100 (25)

Ex e/Ex i separator; orange; 3 mm thick			
	120 mm	209-191	50 (25)

Technical Data	
0.5 … 10 (16) mm² ❶	20 … 6 AWG
800 V/8 kV/3 ❷	600 V, 65 A
I_N 57 A (76 A)	600 V, 65 A
Terminal block width: 10 mm / 0.394 inch	
17 … 19 mm / 0.67 … 0.91 inch	



3-conductor through terminal block		
Color	Item No.	Pack. Unit
gray	2010-1301 ❹	25
blue	2010-1304 ❸ ❹	25
orange	2010-1302 ❹	25
black	2010-1305 ❹	25

3-conductor ground terminal block		
green-yellow	2010-1307 ❹	25

Accessories; item-specific			
End and intermediate plate; 1 mm thick			
	orange	2010-1392	100 (25)
	gray	2010-1391	100 (25)

❶ Conductor range: 0.5 … 16 mm² “s+f-st”; Push-in termination: 4 … 16 mm² “s” and 4 … 10 mm² “insulated ferrules; 18 mm” Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

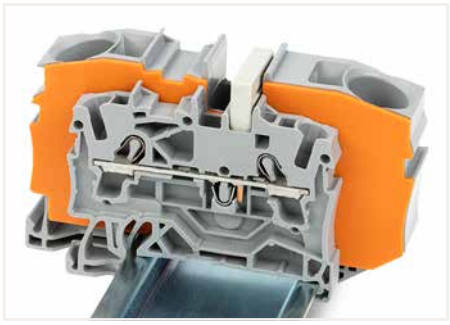
❷ 800 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

❸ Terminal blocks with a blue insulated housing are suitable for Ex i applications.

❹ Terminal blocks with an Ex mark are suitable for Ex e II applications.
550 V; 51 A; for 2-conductor terminal blocks
550 V; 50 A; for 3-conductor terminal blocks
(see Section 14)

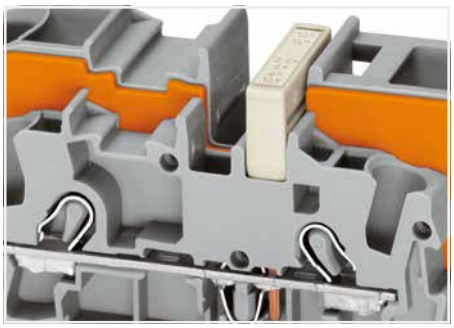
Please observe the application notes:
Separator for Ex e/Ex i applications, see page 55
Step-down jumpers, see page 59
Jumpers, from page 155
Testing accessories, from page 148
Marking, from page 588

Approvals and corresponding ratings, visit www.wago.com



Commoning with step-down jumpers:
An end plate must be inserted between the terminal blocks to be commoned. Step-down jumpers (2016-499) common 16/10 mm² (16/8 AWG) terminal blocks (2016/2010 Series) with 10/6/4/2.5 mm² (8/10/12/14 AWG) terminal blocks (2010/2006/2004/2002 Series).
Step-down jumpers are simply pushed down for full insertion, similar to other push-in type jumper bars.
Note:
The total current of the outgoing circuits must not exceed the nominal current of the step-down jumper/push-in type jumper bar.

Accessories; 2010 Series			
Appropriate marking systems: WMB/WMB Inline/Marking strips			
Push-in type jumper bar; insulated; I_N 57 A; light gray			
	2-way	2010-402	25
	3-way	2010-403	25
	4-way	2010-404	25
	5-way	2010-405	25
Push-in type jumper bar; insulated; I_N 57 A; light gray			
	1 to 3	2010-433	25
	1 to 4	2010-434	25
	1 to 5	2010-435	25
Star point jumper; insulated; I_N = I_N terminal block; light gray			
	1-3-5	2010-405/011-000	25
Step-down jumper; insulated; commons 16/10 mm² (8/10 AWG) to 10/6/4/2.5 mm² (8/10/12/14 AWG); I_N 57 A			
	light gray	2016-499	25
Protective warning marker; with black high-voltage symbol; for 5 terminal blocks			
	yellow	2010-115	100 (25)
Finger guard; touch-proof cover protects unused conductor entries			
	yellow	2010-100	100 (25)
Modular connector; snaps together; for jumper contact slot			
	gray	2010-511	50 (25)
Test plug adapter; for 4 mm Ø test plug			
	gray	2009-174	100 (25)
Marking strip; plain; 11 mm wide; 50 m reel			
	white	2009-110	1
WMB marking card; white; 10 strips with 10 markers/card; 5 … 5.2 mm stretchable			
	plain	793-5501	5

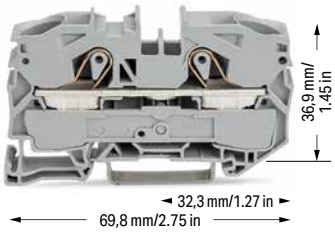


Commoning with step-down jumpers.

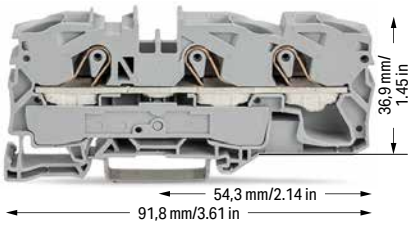
Through/Ground Conductor/Shield Conductor/Ex Terminal Block TOPJOB® S
16 (25 “f-st”) mm²; 2016 Series

1

Technical Data	
0.5 … 16 (25 “f-st”) mm² ❶	20 … 4 AWG
800 V/8 kV/3 ❷	600 V, 85 A
I_N 76 A (90 A)	600 V, 80 A
Terminal block width: 12 mm / 0.472 inch	
18 … 20 mm / 0.71 … 0.79 inch	



Technical Data	
0.5 … 16 (25 “f-st”) mm² ❶	20 … 4 AWG
800 V/8 kV/3 ❷	600 V, 85 A
I_N 76 A (90 A)	600 V, 80 A
Terminal block width: 12 mm / 0.472 inch	
18 … 20 mm / 0.71 … 0.79 inch	



2-conductor through terminal block

Color	Item No.	Pack. Unit
gray	2016-1201 ❹	20
blue	2016-1204 ❸ ❹	20
orange	2016-1202 ❹	20
red	2016-1203 ❹	20

3-conductor through terminal block

Color	Item No.	Pack. Unit
gray	2016-1301 ❹	20
blue	2016-1304 ❸ ❹	20
orange	2016-1302 ❹	20
red	2016-1303 ❹	20
black	2016-1305 ❹	20
yellow	2016-1306 ❹	20

2-conductor ground terminal block
15 mm high DIN-35 rails shall be used for a current load higher than 76 A!

green-yellow	2016-1207 ❹	20

3-conductor ground terminal block
15 mm high DIN-35 rails shall be used for a current load higher than 76 A!

green-yellow	2016-1307 ❹	20

2-conductor shield terminal block
15 mm high DIN-35 rails shall be used for a current load higher than 76 A!

white	2016-1208	20

Accessories; item-specific

End and intermediate plate; 1 mm thick

orange	2016-1292	100 (25)
gray	2016-1291	100 (25)

Ex e/Ex i separator; orange; 3 mm thick

120 mm	209-191	50 (25)

Accessories; item-specific

End and intermediate plate; 1 mm thick

orange	2016-1392	100 (25)
gray	2016-1391	100 (25)

Accessories; 2016 Series

Appropriate marking systems: WMB/WMB Inline/Marking strips

Push-in type jumper bar; insulated; I_N 41 A; light gray

2-way	2016-402	25
3-way	2016-403	25
4-way	2016-404	25
5-way	2016-405	25

Push-in type jumper bar; insulated; I_N 41 A; light gray

1 to 3	2016-433	25
1 to 4	2016-434	25
1 to 5	2016-435	25

Star point jumper; insulated; I_N = I_N terminal block; light gray

1-3-5	2016-405/011-000	25

Step-down jumper; insulated; commons 16/10 mm² (8/10 AWG) to 10/6/4/2.5 mm² (8/10/12/14 AWG); I_N 57 A

light gray	2016-499	25

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks

yellow	2016-115	100 (25)

Finger guard; touch-proof cover protects unused conductor entries

yellow	2016-100	100 (25)

Modular connector; snaps together; for jumper contact slot

gray	2016-511	50 (25)

Test plug adapter; for 4 mm Ø test plug

gray	2009-174	100 (25)

❶ Conductor range: 0.5 … 16 mm² “s+f-st”, 25 mm² “f-st”;
Push-in termination: 6 … 16 mm² “s” and 6 … 16 mm² “insulated ferrules; 18 mm”
Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

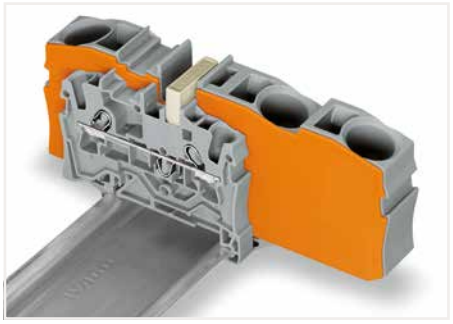
❷ 800 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

❸ Terminal blocks with a blue insulated housing are suitable for Ex i applications.

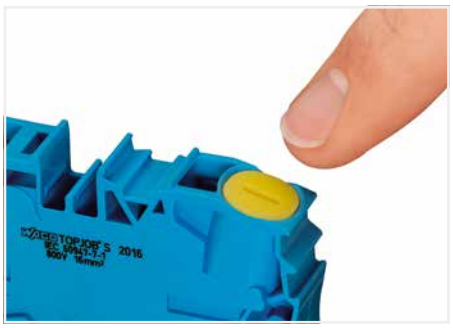
❹ Terminal blocks with an Ex mark are suitable for Ex e II applications.
550 V; 70 A; for 2-conductor terminal blocks
550 V; 67 A; for 3-conductor terminal blocks
65 A jumper
(see Section 14)

Please observe the application notes:
Separator for Ex e/Ex i applications, see page 55
Step-down jumpers, see page 59
Jumpers, from page 155
Testing accessories, from page 149
Marking, from page 588

Approvals and corresponding ratings, visit www.wago.com



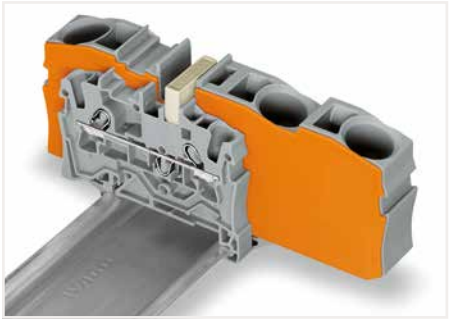
Step-down jumpers common terminal blocks of different sizes, without losing a conductor clamping point. This can be beneficial on long conductor runs where voltage drop can be a problem. A large conductor can be easily connected to smaller conductors at the distribution point. Commoning may be made in either direction using the special thin end plate to cover the open side. Additional through terminal blocks having a smaller cross-section may be commoned using push-in type jumper bars.



Finger guard seals an unused conductor entry.

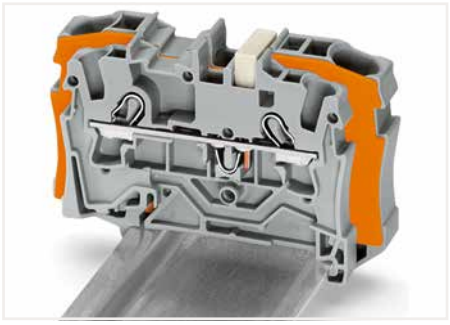
Step-Down Jumpers TOPJOB® S
Installation

Step-down jumpers (2006-499 and 2016-499)

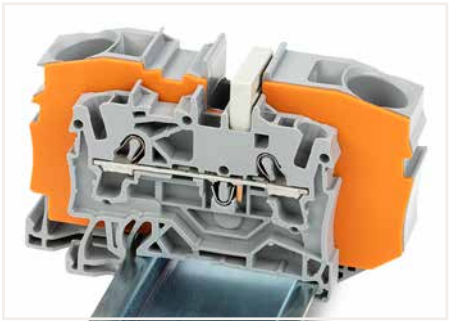


Step-down jumpers common terminal blocks of different sizes, without losing a conductor clamping point. This can be beneficial on long conductor runs where voltage drop can be a problem. A large conductor can be easily connected to smaller conductors at the distribution point. Commoning may be made in either direction using the special thin end plate to cover the open side. Additional through terminal blocks having a smaller cross-section may be commoned using push-in type jumper bars.

Using step-down jumpers, an end plate must be inserted between the terminal blocks to be commoned.

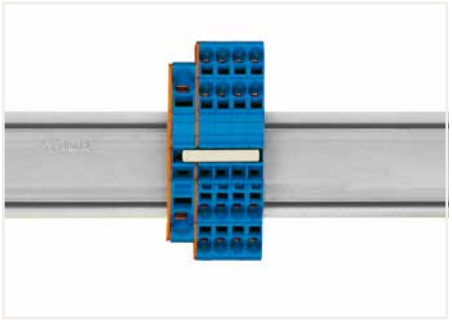


Step-down jumper (2006-499) commons 6/4 mm² (10/12 AWG) terminal blocks (2006/2004 Series) with 4/2.5/1.5 mm² (AWG 12/14/16) terminal blocks (2004/2002/2001 Series).



Step-down jumper (2016-499) commons 16/10 mm² (16/8 AWG) terminal blocks (2016/2010 Series) with 10/6/4/2.5 mm² (8/10/12/14 AWG) terminal blocks (2010/2006/2004/2002 Series).

Stepping down via push-in type jumper bar:
Commoning via open terminal side with end plate allows jumpering over two cross-section sizes for 16 mm² (6 AWG) and 10 mm² (8 AWG) and one cross-section size for 6/4/2.5 mm² (10/12/14 AWG). An example: from 16 mm² (6 AWG) to 6 mm² (10 AWG) (see illustration above) or from 10 mm² (8 AWG) to 4 mm² (12 AWG).



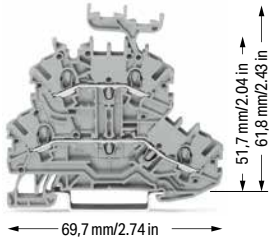
Stepping down via push-in type jumper bar:
Commoning via closed terminal side with end plate allows jumpering over two cross-section sizes, e.g., from 16 mm² (6 AWG) to 6 mm² (10 AWG) or from 6 mm² (10 AWG) to 2.5 mm² (14 AWG) (see illustration above).

Note:
The total current of the outgoing circuits must not exceed the nominal current of the step-down jumper/push-in type jumper bar.

Double-Deck Terminal Block TOPJOB® S
1 (1.5) mm²; 2000 Series

1

Technical Data	
0.14 … 1 (1.5) mm² ❶	24 … 16 AWG
500 V/6 kV/3 ❷	600 V, 10 A
I_N 13.5 A (16 A)	
Terminal block width: 3.5 mm / 0.138 inch	
9 … 11 mm / 0.35 … 0.43 inch	

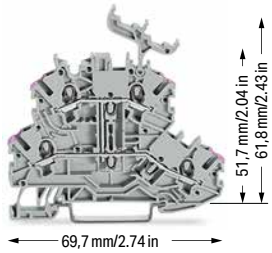


Double-deck terminal block; through/through terminal block; with marker carrier; gray housing

	Item No.	Pack. Unit
L/L	2000-2231	50
N/L	2000-2232	50
L/N	2000-2233	50

Double-deck terminal block; through/through terminal block; without marker carrier; gray housing

	Item No.	Pack. Unit
L/L	2000-2201	50
N/L	2000-2202	50
L/N	2000-2203	50



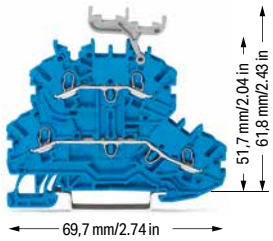
Double-deck terminal block; 4-conductor through terminal block; with marker carrier; internally commoned; violet conductor entry; gray housing

	Item No.	Pack. Unit
L	2000-2238	50

Double-deck terminal block; 4-conductor through terminal block; without marker carrier; internally commoned; violet conductor entry; gray housing

	Item No.	Pack. Unit
L	2000-2208	50

Technical Data	
0.14 … 1 (1.5) mm² ❶	24 … 16 AWG
500 V/6 kV/3 ❷	600 V, 10 A
I_N 13.5 A (16 A)	
Terminal block width: 3.5 mm / 0.138 inch	
9 … 11 mm / 0.35 … 0.43 inch	

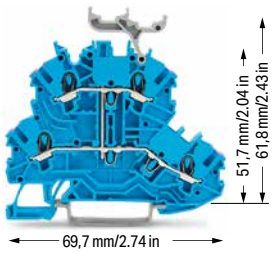


Double-deck terminal block; through/through terminal block; with marker carrier; blue housing

	Item No.	Pack. Unit
N/N	2000-2234	50

Double-deck terminal block; through/through terminal block; without marker carrier; blue housing

	Item No.	Pack. Unit
N/N	2000-2204	50



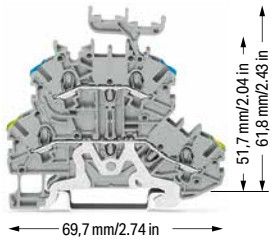
Double-deck terminal block; 4-conductor through terminal block; with marker carrier; internally commoned; violet conductor entry; blue housing

	Item No.	Pack. Unit
N	2000-2239	50

Double-deck terminal block; 4-conductor through terminal block; without marker carrier; internally commoned; violet conductor entry; blue housing

	Item No.	Pack. Unit
N	2000-2209	50

Technical Data	
0.14 … 1 (1.5) mm² ❶	24 … 16 AWG
500 V/6 kV/3 ❷	600 V, 10 A
I_N 13.5 A (16 A)	
Terminal block width: 3.5 mm / 0.138 inch	
9 … 11 mm / 0.35 … 0.43 inch	

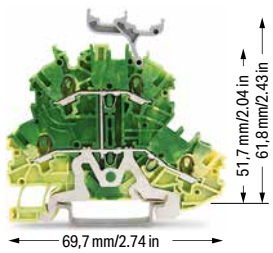


Double-deck terminal block; ground conductor/through terminal block; with marker carrier; blue housing

	Item No.	Pack. Unit
PE/N	2000-2247	50
PE/L	2000-2257	50

Double-deck terminal block; ground conductor/through terminal block; without marker carrier; gray housing

	Item No.	Pack. Unit
PE/N	2000-2217	50
PE/L	2000-2227	50



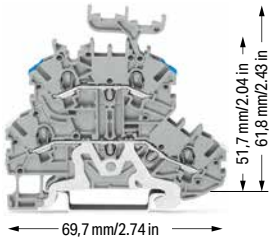
Double-deck terminal block; 4-conductor ground terminal block; with marker carrier; internally commoned; green-yellow housing

	Item No.	Pack. Unit
PE	2000-2237	50

Double-deck terminal block; 4-conductor ground terminal block; without marker carrier; internally commoned; green-yellow housing

	Item No.	Pack. Unit
PE	2000-2207	50

Technical Data	
0.14 … 1 (1.5) mm² ❶	24 … 16 AWG
500 V/6 kV/3 ❷	600 V, 10 A
I_N 13.5 A (16 A)	
Terminal block width: 3.5 mm / 0.138 inch	
9 … 11 mm / 0.35 … 0.43 inch	



❶ Conductor range: 0.14 … 1.5 mm² “s+f-st”; Push-in termination: 0.5 … 1.5 mm² “s” and 0.5 … 0.75 mm² “insulated ferrules; 12 mm” Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 800 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

Please observe the application notes:
Jumpers, from page 157
Testing accessories, from page 151
Marking, from page 588

Approvals and corresponding ratings, visit www.wago.com

Double-deck terminal block; shield/through terminal block; with marker carrier; gray housing

	Item No.	Pack. Unit
◯ Shield/N	2000-2248	50
◯ Shield/L	2000-2258	50

Double-deck terminal block; shield/through terminal block; without marker carrier; gray housing

◯ Shield/N	2000-2218	50
◯ Shield/L	2000-2228	50

Accessories; 2000 Series

Appropriate marking systems:
WMB/WMB Inline/Marking strips

End and intermediate plate; 0.7 mm thick

orange	2000-2292	25
gray	2000-2291	25

Push-in type jumper bar; insulated; I_N 14 A; light gray

2-way	2000-402	25
3-way	2000-403	25
4-way	2000-404	25
5-way	2000-405	25
6-way	2000-406	25
7-way	2000-407	25
8-way	2000-408	25
9-way	2000-409	25
10-way	2000-410	25

Push-in type jumper bar; insulated; I_N 14 A; light gray

1 to 3	2000-433	25
1 to 4	2000-434	25
1 to 5	2000-435	25
1 to 6	2000-436	25
1 to 7	2000-437	25
1 to 8	2000-438	25
1 to 9	2000-439	25
1 to 10	2000-440	25

Double-deck vertical jumper; insulated; I_N 13.5 A

light gray	2000-492	100 (25)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks

yellow	2000-115	100 (25)

Test plug adapter; for 4 mm Ø test plug

gray	2009-174	100 (25)

Banana plug; for 4 mm socket diameter; color mixed; 10 x orange, white, black, blue, yellow; max. 42 V

	215-111	50

Testing tap; for max. 2.5 mm²

gray	2009-182	100 (25)

WMB Inline; plain; 2,300 WMB markers (3.5 mm)/reel

white	2009-113	1

Accessories; 2000 Series

Appropriate marking systems:
WMB/WMB Inline/Marking strips

WMB marking card; white; 10 strips with 10 markers/card; for 3.5 mm terminal block width

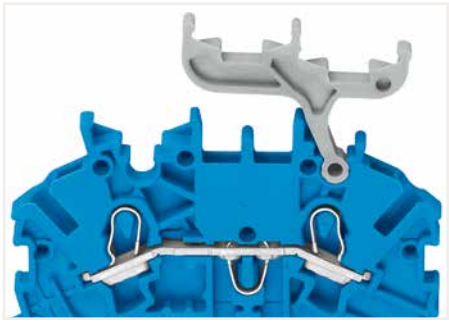
plain	793-3501	5

Marking strip; plain; 11 mm wide; 50 m reel

white	2009-110	1

Double-deck marker carrier; pivoting

gray	2000-121	50 (25)

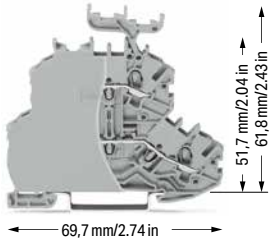


Double-deck terminal blocks:
A double-deck marker carrier (2000-121) can be retrofitted to double-deck terminal blocks without a marker carrier.

Double-Deck Terminal Block TOPJOB® S; with End Plate; 800 V
1 (1.5) mm²; 2000 Series

1

Technical Data	
0.14 … 1 (1.5) mm² ❶	24 … 16 AWG
800 V/8 kV/3 ❷	600 V, 10 A
I_N 13.5 A (16 A)	
Terminal block width: 4.2 mm / 0.165 inch	
9 … 11 mm / 0.35 … 0.43 inch	

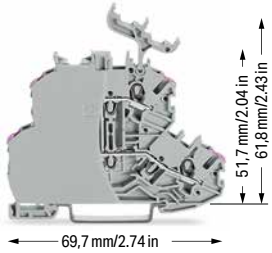


Double-deck terminal block; through/through terminal block; with end plate; with marker carrier; gray housing

	Item No.	Pack. Unit
L/L	2000-2231/099-000	50
N/L	2000-2232/099-000	50
L/N	2000-2233/099-000	50

Double-deck terminal block; through/through terminal block; with end plate; without marker carrier; gray housing

	Item No.	Pack. Unit
L/L	2000-2201/099-000	50
N/L	2000-2202/099-000	50
L/N	2000-2203/099-000	50



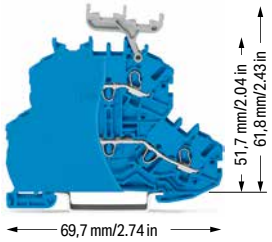
Double-deck terminal block; 4-conductor through terminal block; with end plate; with marker carrier; internally commoned; violet conductor entry; gray housing

	Item No.	Pack. Unit
L	2000-2238/099-000	50

Double-deck terminal block; 4-conductor through terminal block; with end plate; without marker carrier; internally commoned; violet conductor entry; gray housing

	Item No.	Pack. Unit
L	2000-2208/099-000	50

Technical Data	
0.14 … 1 (1.5) mm² ❶	24 … 16 AWG
800 V/8 kV/3 ❷	600 V, 10 A
I_N 13.5 A (16 A)	
Terminal block width: 4.2 mm / 0.165 inch	
9 … 11 mm / 0.35 … 0.43 inch	

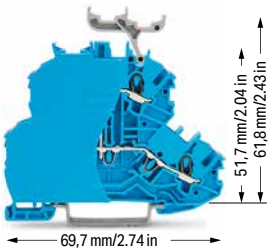


Double-deck terminal block; through/through terminal block; with end plate; with marker carrier; blue housing

	Item No.	Pack. Unit
N/N	2000-2234/099-000	50

Double-deck terminal block; through/through terminal block; with end plate; without marker carrier; blue housing

	Item No.	Pack. Unit
N/N	2000-2204/099-000	50



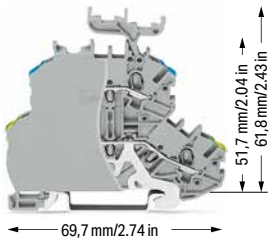
Double-deck terminal block; 4-conductor through terminal block; with end plate; with marker carrier; internally commoned; violet conductor entry; blue housing

	Item No.	Pack. Unit
N	2000-2239/099-000	50

Double-deck terminal block; 4-conductor through terminal block; with end plate; without marker carrier; internally commoned; violet conductor entry; blue housing

	Item No.	Pack. Unit
N	2000-2209/099-000	50

Technical Data	
0.14 … 1 (1.5) mm² ❶	24 … 16 AWG
800 V/8 kV/3 ❷	600 V, 10 A
I_N 13.5 A (16 A)	
Terminal block width: 4.2 mm / 0.165 inch	
9 … 11 mm / 0.35 … 0.43 inch	

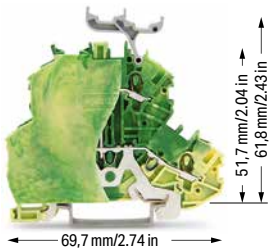


Double-deck terminal block; ground conductor/through terminal block; with end plate; with marker carrier; gray housing

	Item No.	Pack. Unit
PE/N	2000-2247/099-000	50
PE/L	2000-2257/099-000	50

Double-deck terminal block; ground conductor/through terminal block; with end plate; without marker carrier; gray housing

	Item No.	Pack. Unit
PE/N	2000-2217/099-000	50
PE/L	2000-2227/099-000	50



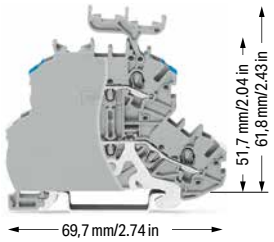
Double-deck terminal block; 4-conductor ground terminal block; with end plate; with marker carrier; internally commoned; green-yellow housing

	Item No.	Pack. Unit
PE	2000-2237/099-000	50

Double-deck terminal block; 4-conductor ground terminal block; with end plate; without marker carrier; internally commoned; green-yellow housing

	Item No.	Pack. Unit
PE	2000-2207/099-000	50

Technical Data	
0.14 … 1 (1.5) mm² ❶	24 … 16 AWG
800 V/8 kV/3 ❷	600 V, 10 A
I_N 13.5 A (16 A)	
Terminal block width: 4.2 mm / 0.165 inch	
9 … 11 mm / 0.35 … 0.43 inch	



❶ Conductor range: 0.14 … 1.5 mm² "s+f-st"; Push-in termination: 0.5 … 1.5 mm² "s" and 0.5 … 0.75 mm² "insulated ferrules; 12 mm" Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 800 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

Please observe the application notes:
Jumpers, from page 157
Testing accessories, from page 151
Marking, from page 588

Approvals and corresponding ratings, visit www.wago.com

Double-deck terminal block; shield/through terminal block; with end plate; with marker carrier; gray housing

	Item No.	Pack. Unit
Shield/N	2000-2248/099-000	50
Shield/L	2000-2258/099-000	50

Double-deck terminal block; shield/through terminal block; with end plate; without marker carrier; gray housing

	Item No.	Pack. Unit
Shield/N	2000-2218/099-000	50
Shield/L	2000-2228/099-000	50

Accessories; 2000 Series

Appropriate marking systems:
WMB/WMB Inline/Marking strips

End and intermediate plate; 0.7 mm thick

orange	2000-2292	25
gray	2000-2291	25

Push-in type jumper bar; insulated; I_N 18 A; light gray

2-way	2001-402	25
3-way	2001-403	25
4-way	2001-404	25
5-way	2001-405	25
6-way	2001-406	25
7-way	2001-407	25
8-way	2001-408	25
9-way	2001-409	25
10-way	2001-410	25

Push-in type jumper bar; insulated; I_N 18 A; light gray

1 to 3	2001-433	25
1 to 4	2001-434	25
1 to 5	2001-435	25
1 to 6	2001-436	25
1 to 7	2001-437	25
1 to 8	2001-438	25
1 to 9	2001-439	25
1 to 10	2001-440	25

Double-deck vertical jumper; insulated; I_N 13.5 A

light gray	2000-492	100 (25)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks

yellow	2001-115	100 (25)

Test plug adapter; for 4 mm Ø test plug

gray	2009-174	100 (25)

Banana plug; for 4 mm socket diameter; color mixed; 10 x orange, white, black, blue, yellow; max. 42 V

215-111	50

Testing tap; for max. 2.5 mm²

gray	2009-182	100 (25)

Accessories; 2000 Series

Appropriate marking systems:
WMB/WMB Inline/Marking strips

WMB Inline; plain; 2,000 WMB markers (4 mm)/reel; 4 … 4.2 mm stretchable

white	2009-114	1

WMB marking card; white; 10 strips with 10 markers/card; 4 … 4.2 mm stretchable

plain	793-4501	5

WMB marking card; plain; 10 strips with 10 markers/card; 4 … 4.2 mm stretchable

yellow	793-4501/000-002	5
red	793-4501/000-005	5
blue	793-4501/000-006	5
gray	793-4501/000-007	5
orange	793-4501/000-012	5
light green	793-4501/000-017	5
green	793-4501/000-023	5
violet	793-4501/000-024	5

Marking strip; plain; 11 mm wide; 50 m reel

white	2009-110	1

Double-deck marker carrier; pivoting

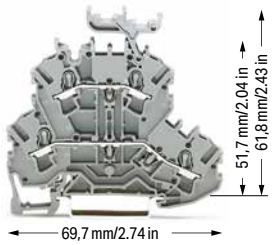
gray	2000-121	50 (25)

Double-deck terminal blocks:
A double-deck marker carrier (2000-121) can be retrofitted to double-deck terminal blocks without a marker carrier.

Double-Deck Terminal Block TOPJOB® S
2.5 (4) mm²; 2002 Series

1

Technical Data	
0.25 … 2.5 (4) mm² 1	22 … 12 AWG
500 V/6 kV/3 2	600 V, 20 A
I_N 24 A (28 A)	600 V, 20 A
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



Double-deck terminal block; through/through terminal block; with marker carrier; gray housing

	Item No.	Pack. Unit
L/L	2002-2231 4	50
N/L	2002-2232 4	50
L/N	2002-2233 4	50

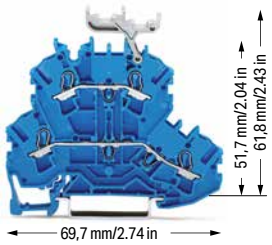
Double-deck terminal block; through/through terminal block; without marker carrier; gray housing

	Item No.	Pack. Unit
L/L	2002-2201 4	50
N/L	2002-2202 4	50
L/N	2002-2203 4	50

Other terminal blocks with the same profile:

Diode	2002-2211/1000-410	Page 134
LED	2002-2221/1000-434	Page 134

Technical Data	
0.25 … 2.5 (4) mm² 1	22 … 12 AWG
500 V/6 kV/3 2	600 V, 20 A
I_N 24 A (28 A)	600 V, 20 A
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



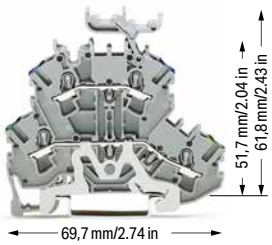
Double-deck terminal block; through/through terminal block; with marker carrier; blue housing

	Item No.	Pack. Unit
N/N	2002-2234 3 4	50

Double-deck terminal block; through/through terminal block; without marker carrier; blue housing

	Item No.	Pack. Unit
N/N	2002-2204 3 4	50

Technical Data	
0.25 … 2.5 (4) mm² 1	22 … 12 AWG
500 V/6 kV/3 2	600 V, 20 A
I_N 24 A (28 A)	600 V, 20 A
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	

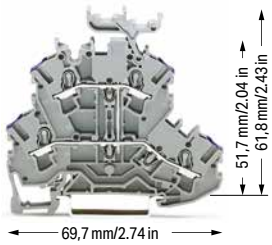


Double-deck terminal block; ground conductor/through terminal block; with marker carrier; blue housing

	Item No.	Pack. Unit
PE/N	2002-2247 4	50
PE/L	2002-2257 4	50

Double-deck terminal block; ground conductor/through terminal block; without marker carrier; gray housing

	Item No.	Pack. Unit
PE/N	2002-2217 4	50
PE/L	2002-2227 4	50

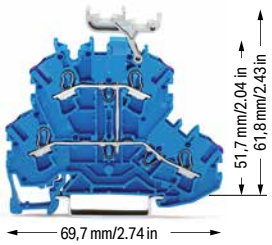


Double-deck terminal block; 4-conductor through terminal block; with marker carrier; internally commoned; violet conductor entry; gray housing

	Item No.	Pack. Unit
L	2002-2238 4	50

Double-deck terminal block; 4-conductor through terminal block; without marker carrier; internally commoned; violet conductor entry; gray housing

	Item No.	Pack. Unit
L	2002-2208 4	50

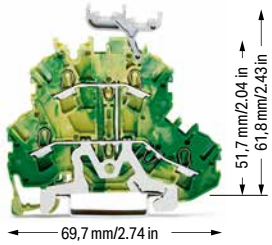


Double-deck terminal block; 4-conductor through terminal block; with marker carrier; internally commoned; violet conductor entry; blue housing

	Item No.	Pack. Unit
N	2002-2239 3 4	50

Double-deck terminal block; 4-conductor through terminal block; without marker carrier; internally commoned; violet conductor entry; blue housing

	Item No.	Pack. Unit
N	2002-2209 3 4	50



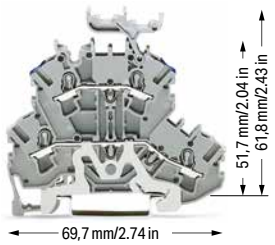
Double-deck terminal block; 4-conductor ground terminal block; with marker carrier; internally commoned; green-yellow housing

	Item No.	Pack. Unit
PE	2002-2237 4	50

Double-deck terminal block; 4-conductor ground terminal block; without marker carrier; internally commoned; green-yellow housing

	Item No.	Pack. Unit
PE	2002-2207 4	50

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
500 V/6 kV/3 ❷	600 V, 20 A
I_N 24 A (28 A)	600 V, 20 A
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



Double-deck terminal block; shield/through terminal block; with marker carrier; gray housing

	Item No.	Pack. Unit
Shield/N	2002-2248	50
Shield/L	2002-2258	50

Double-deck terminal block; shield/through terminal block; without marker carrier; gray housing

Shield/N	2002-2218	50
Shield/L	2002-2228	50

❶ Conductor range: 0.25 … 4 mm² "s+f-st"; Push-in termination: 1 … 4 mm² "s" and 1 … 2.5 mm² "insulated ferrules, 12 mm" Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 500 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

❸ Terminal blocks with a blue insulated housing are suitable for Ex i applications.

❹ Terminal blocks with an Ex mark are suitable for Ex e II applications.
440 V; 20 A
18 A jumper
(see Section 14)

Please observe the application notes:
Jumpers, from page 157
Testing accessories, from page 151
Marking, from page 588

Approvals and corresponding ratings, visit www.wago.com

Accessories; 2002 Series

Appropriate marking systems:
WMB/WMB Inline/Marking strips

End and intermediate plate; 0.8 mm thick

orange	2002-2292	100 (25)
gray	2002-2291	100 (25)

Ex e/Ex i separator; orange; 3 mm thick

125.5 mm	209-192	50 (25)

Separator plate; oversized upper deck; snap-on type; 2 mm thick

orange	2002-2296	100 (25)
gray	2002-2295	100 (25)

Insulation stop; 5 pcs/strip; 0.25 … 0.5 mm²

light gray	2002-171	200 (25)

Insulation stop; 5 pcs/strip; 0.75 … 1 mm²

dark gray	2002-172	200 (25)

Push-in type jumper bar; insulated; I_N 25 A; light gray

2-way	2002-402	25
3-way	2002-403	25
4-way	2002-404	25
5-way	2002-405	25
6-way	2002-406	25
7-way	2002-407	25
8-way	2002-408	25
9-way	2002-409	25
10-way	2002-410	25

Push-in type jumper bar; insulated; I_N 25 A; light gray

1 to 3	2002-433	25
1 to 4	2002-434	25
1 to 5	2002-435	25
1 to 6	2002-436	25
1 to 7	2002-437	25
1 to 8	2002-438	25
1 to 9	2002-439	25
1 to 10	2002-440	25

Accessories; 2002 Series

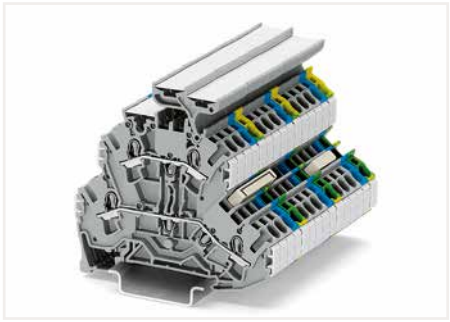
Appropriate marking systems:
WMB/WMB Inline/Marking strips

Double-deck vertical jumper; insulated; I_N 24 A

light gray	2002-492	100 (25)
orange	2002-492/000-012	100 (25)

Double-deck marker carrier; pivoting

gray	2002-121	50 (25)



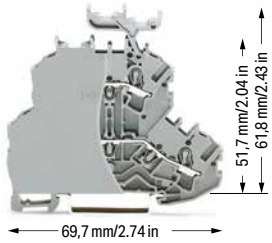
Double-deck terminal block assembly

Both ground and shield conductor terminal blocks have a contact foot in the bottom level, automatically establishing direct contact to the DIN-rail or busbar.
The flexible double-deck marker carrier, which is placed above the wiring level, can be pushed aside during wiring. The carrier has two staggered levels for WMB markers that perfectly align with the terminal block decks.
With a terminal block width of just 5.2 mm, an effective width of just 2.6 mm for terminal blocks of same or different potentials can be realized for conductors ranging 0.25 mm² … 4 mm² (22 … 12 AWG).
Shielded control cables are becoming an increasingly common solution to external signal interference.
Front-entry shield conductor terminal blocks are ideal for connecting braided cables. Like front-entry ground conductor terminal blocks, they are equipped with a grounding foot for direct electrical connection to the rail, however they differ significantly by their white insulated housing.
Shield conductor terminal blocks for front-entry wiring can be directly mounted beside signal-conductor terminal blocks, providing excellent deflection of interfering signals.

Double-Deck Terminal Block TOPJOB® S; with End Plate; 800 V
2.5 (4) mm²; 2002 Series

1

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
800 V/8 kV/3 ❷	600 V, 20 A
I_N 24 A	600 V, 20 A
Terminal block width: 6.2 mm / 0.244 inch	
10 … 12 mm / 0.39 … 0.47 inch	



Double-deck terminal block; through/through terminal block; with end plate; with marker carrier; gray housing

	Item No.	Pack. Unit
L/L	2002-2231/099-000	50
N/L	2002-2232/099-000	50
L/N	2002-2233/099-000	50

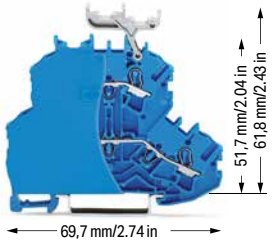
Double-deck terminal block; through/through terminal block; with end plate; without marker carrier; gray housing

	Item No.	Pack. Unit
L/L	2002-2201/099-000	50
N/L	2002-2202/099-000	50
L/N	2002-2203/099-000	50

Other terminal blocks with the same profile:

Diode	2002-2211/1000-410	Page 134
LED	2002-2221/1000-434	Page 134

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
800 V/8 kV/3 ❷	600 V, 20 A
I_N 24 A	600 V, 20 A
Terminal block width: 6.2 mm / 0.244 inch	
10 … 12 mm / 0.39 … 0.47 inch	



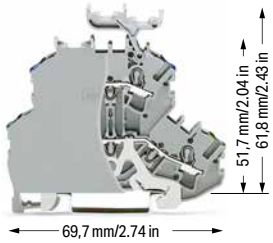
Double-deck terminal block; through/through terminal block; with end plate; with marker carrier; blue housing

	Item No.	Pack. Unit
N/N	2002-2234/099-000 ❸	50

Double-deck terminal block; through/through terminal block; with end plate; without marker carrier; blue housing

	Item No.	Pack. Unit
N/N	2002-2204/099-000 ❸	50

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
800 V/8 kV/3 ❷	600 V, 20 A
I_N 24 A	600 V, 20 A
Terminal block width: 6.2 mm / 0.244 inch	
10 … 12 mm / 0.39 … 0.47 inch	

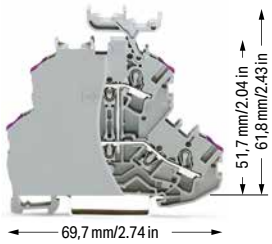


Double-deck terminal block; ground conductor/through terminal block; with end plate; with marker carrier; gray housing

	Item No.	Pack. Unit
PE/N	2002-2247/099-000	50
PE/L	2002-2257/099-000	50

Double-deck terminal block; ground conductor/through terminal block; with end plate; without marker carrier; gray housing

	Item No.	Pack. Unit
PE/N	2002-2217/099-000	50
PE/L	2002-2227/099-000	50

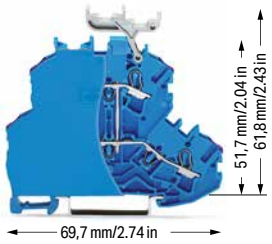


Double-deck terminal block; 4-conductor through terminal block; with end plate; with marker carrier; internally commoned; violet conductor entry; gray housing

	Item No.	Pack. Unit
L	2002-2238/099-000	50

Double-deck terminal block; 4-conductor through terminal block; with end plate; without marker carrier; internally commoned; violet conductor entry; gray housing

	Item No.	Pack. Unit
L	2002-2208/099-000	50

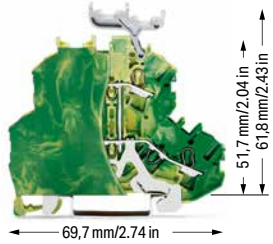


Double-deck terminal block; 4-conductor through terminal block; with end plate; with marker carrier; internally commoned; violet conductor entry; blue housing

	Item No.	Pack. Unit
N	2002-2239/099-000 ❸	50

Double-deck terminal block; 4-conductor through terminal block; with end plate; without marker carrier; internally commoned; violet conductor entry; blue housing

	Item No.	Pack. Unit
N	2002-2209/099-000 ❶	50



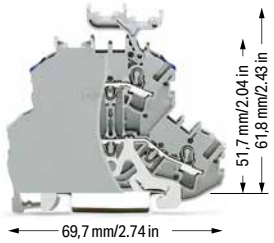
Double-deck terminal block; 4-conductor ground terminal block; with end plate; with marker carrier; internally commoned; green-yellow housing

	Item No.	Pack. Unit
PE	2002-2237/099-000	50

Double-deck terminal block; 4-conductor ground terminal block; with end plate; without marker carrier; internally commoned; green-yellow housing

	Item No.	Pack. Unit
PE	2002-2207/099-000	50

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
800 V/8 kV/3 ❷	600 V, 20 A
I_N 24 A	600 V, 20 A
Terminal block width: 6.2 mm / 0.244 inch	
10 … 12 mm / 0.39 … 0.47 inch	



Double-deck terminal block; shield/through terminal block; with end plate; with marker carrier; gray housing

	Item No.	Pack. Unit
Shield/N	2002-2248/099-000	50
Shield/L	2002-2258/099-000	50

Double-deck terminal block; shield/through terminal block; with end plate; without marker carrier; gray housing

Shield/N	2002-2218/099-000	50
Shield/L	2002-2228/099-000	50

❶ Conductor range: 0.25 … 4 mm² "s+f-st"; Push-in termination: 1 … 4 mm² "s" and 1 … 2.5 mm² "insulated ferrules, 12 mm" Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 800 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

❸ Terminal blocks with a blue insulated housing are suitable for Ex i applications.

Please observe the application notes:
Jumpers, from page 157
Testing accessories, from page 151
Marking, from page 588

A protective warning marker and an insulation stop must be applied individually. Due to the 6.2 mm width of double-deck terminal blocks with end plates, 2004 Series Push-In Type Jumper Bars must be used.

Approvals and corresponding ratings, visit www.wago.com

Accessories; 2002 Series

Appropriate marking systems: WMB/Marking strips

End and intermediate plate; 0.8 mm thick

orange	2002-2292	100 (25)
gray	2002-2291	100 (25)

Insulation stop; 5 pcs/strip; 0.25 … 0.5 mm²

light gray	2002-171	200 (25)

Insulation stop; 5 pcs/strip; 0.75 … 1 mm²

dark gray	2002-172	200 (25)

Push-in type jumper bar; insulated; I_N 32 A; light gray

2-way	2004-402	25
3-way	2004-403	25
4-way	2004-404	25
5-way	2004-405	25
6-way	2004-406	25
7-way	2004-407	25
8-way	2004-408	25
9-way	2004-409	25
10-way	2004-410	25

Push-in type jumper bar; insulated; I_N 32 A; light gray

1 to 3	2004-433	25
1 to 4	2004-434	25
1 to 5	2004-435	25
1 to 6	2004-436	25
1 to 7	2004-437	25
1 to 8	2004-438	25
1 to 9	2004-439	25
1 to 10	2004-440	25

Double-deck vertical jumper; insulated; I_N 24 A

light gray	2002-492	100 (25)
orange	2002-492/000-012	100 (25)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks

yellow	2002-115	100 (25)

Accessories; 2002 Series

Appropriate marking systems: WMB/Marking strips

Test plug adapter; for 4 mm Ø test plug

gray	2009-174	100 (25)

Banana plug; for 4 mm socket diameter; color mixed; 10 x orange, white, black, blue, yellow; max. 42 V

	215-111	50

WMB marking card; white; 10 strips with 10 markers/card; 5 … 5.2 mm stretchable

plain	793-5501	5

WMB marking card; plain; 10 strips with 10 markers/card; 5 … 5.2 mm stretchable

yellow	793-5501/000-002	5
red	793-5501/000-005	5
blue	793-5501/000-006	5
gray	793-5501/000-007	5
orange	793-5501/000-012	5
light green	793-5501/000-017	5
green	793-5501/000-023	5
violet	793-5501/000-024	5

Marking strip; plain; 11 mm wide; 50 m reel

white	2009-110	1

Double-deck marker carrier; pivoting

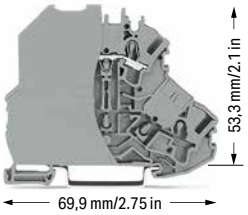
gray	2002-121	50 (25)

PUSH-IN CAGE CLAMP®

Double-Deck Terminal Block TOPJOB® S
2.5 (4) mm²; 2002 Series

1

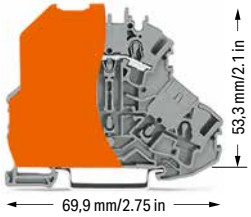
Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
1000 VAC/DC / 1500 VDC / 12 kV / 3 ❷	
I_N 24 A	
Terminal block width: 7.2 mm / 0.283 inch	
10 … 12 mm / 0.39 … 0.47 inch	



Double-deck terminal block; contact insert only on upper deck; gray separator plate; oversized; gray housing

	Item No.	Pack. Unit
◯ L	2002-2201/097-000	50

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
1000 VAC/DC / 1500 VDC / 12 kV / 3 ❷	
I_N 24 A	
Terminal block width: 7.2 mm / 0.283 inch	
10 … 12 mm / 0.39 … 0.47 inch	



Double-deck terminal block; contact insert only on upper deck; orange separator plate; oversized; gray housing

	Item No.	Pack. Unit
◯ L	2002-2201/098-000	50

❶ Conductor range: 0.25 … 4 mm² "s+f-st";
Push-in termination: 1 … 4 mm² "s" and 1 … 2.5 mm² "insulated ferrules, 12 mm"
Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 1000 VAC/DC = rated voltage
1500 VDC
12 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

Please observe the application notes:
Testing accessories, from page 151
Marking, from page 588

A protective warning marker and an insulation stop must be applied individually.

Approvals and corresponding ratings, visit www.wago.com

Accessories; 2002 Series

Appropriate marking systems: WMB/Marking strips

Insulation stop; 5 pcs/strip; 0.25 … 0.5 mm²

light gray	2002-171	200 (25)

Insulation stop; 5 pcs/strip; 0.75 … 1 mm²

dark gray	2002-172	200 (25)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks

yellow	2002-115	100 (25)

Test plug adapter; for 4 mm Ø test plug

gray	2009-174	100 (25)

Banana plug; for 4 mm socket diameter; color mixed; 10 x orange, white, black, blue, yellow; max. 42 V

	215-111	50

Testing tap; for max. 2.5 mm²

gray	2009-182	100 (25)

WMB marking card; white; 10 strips with 10 markers/card; 5 … 5.2 mm stretchable

plain	793-5501	5

WMB marking card; plain; 10 strips with 10 markers/card; 5 … 5.2 mm stretchable

yellow	793-5501/000-002	5
red	793-5501/000-005	5
blue	793-5501/000-006	5
gray	793-5501/000-007	5
orange	793-5501/000-012	5
light green	793-5501/000-017	5
green	793-5501/000-023	5
violet	793-5501/000-024	5

Marking strip; plain; 11 mm wide; 50 m reel

white	2009-110	1

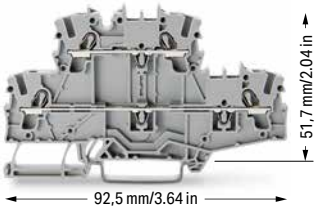
Double-deck marker carrier; pivoting

gray	2002-121	50 (25)

PUSH-IN CAGE CLAMP®

Double-Deck Terminal Block TOPJOB® S; with Vertical Conductor Entry
2.5 (4) mm²; 2002 Series

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
800 V/8 kV/3 ❷	
I_N 24 A (28 A)	
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	

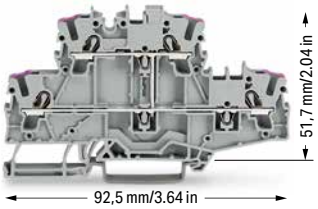


Double-deck terminal block; through/through terminal block; with vertical conductor entry; without marker carrier; gray housing

	Item No.	Pack. Unit
L/L	2002-2701 ❹	50
N/L	2002-2702 ❹	50
L/N	2002-2703 ❹	50

Double-deck terminal block; through/through terminal block; with vertical conductor entry; without marker carrier; blue housing

	Item No.	Pack. Unit
N/N	2002-2704 ❸ ❹	50



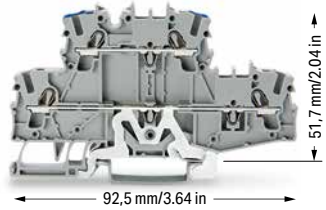
Double-deck terminal block; 4-conductor through terminal block; with vertical conductor entry; without marker carrier; internally commoned; violet conductor entry; gray housing

	Item No.	Pack. Unit
L	2002-2708 ❹	50

Double-deck terminal block; 4-conductor through terminal block; with vertical conductor entry; without marker carrier; internally commoned; violet conductor entry; blue housing

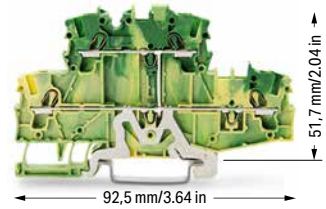
	Item No.	Pack. Unit
N	2002-2709 ❸ ❹	50

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
800 V/8 kV/3 ❷	
I_N 24 A (28 A)	
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



Double-deck terminal block; ground conductor/through terminal block; with vertical conductor entry; without marker carrier; gray housing

	Item No.	Pack. Unit
PE/N	2002-2717 ❹	50
PE/L	2002-2727 ❹	50



Double-deck terminal block; 4-conductor ground terminal block; with vertical conductor entry; without marker carrier; internally commoned; green-yellow housing

	Item No.	Pack. Unit
PE	2002-2707	50
PE	2002-2707/999-950 ❹	50

❶ Conductor range: 0.25 … 4 mm² "s+f-st"; Push-in termination: 1 … 4 mm² "s" and 1 … 2.5 mm² "insulated ferrules, 12 mm" Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 800 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

❸ Terminal blocks with a blue insulated housing are suitable for Ex i applications.

❹ Terminal blocks with an Ex mark are suitable for Ex e II applications.
440 V; 20 A
18 A jumper
(see Section 14)

Please observe the application notes:
Jumpers, from page 157
Testing accessories, from page 151
Marking, from page 588

Approvals and corresponding ratings, visit www.wago.com

Accessories; 2002 Series

Appropriate marking systems: WMB/WMB Inline/Marking strips

End and intermediate plate; 0.8 mm thick

orange	2002-2792	100 (25)
gray	2002-2791	100 (25)

Double-deck marker carrier; pivoting

gray	2002-121	50 (25)

Insulation stop; 5 pcs/strip; 0.25 … 0.5 mm²

light gray	2002-171	200 (25)

Insulation stop; 5 pcs/strip; 0.75 … 1 mm²

dark gray	2002-172	200 (25)

Push-in type jumper bar; insulated; I_N 25 A; light gray

2-way	2002-402	25
3-way	2002-403	25
4-way	2002-404	25
5-way	2002-405	25
6-way	2002-406	25
7-way	2002-407	25
8-way	2002-408	25
9-way	2002-409	25
10-way	2002-410	25

Push-in type jumper bar; insulated; I_N 25 A; light gray

1 to 3	2002-433	25
1 to 4	2002-434	25
1 to 5	2002-435	25
1 to 6	2002-436	25
1 to 7	2002-437	25
1 to 8	2002-438	25
1 to 9	2002-439	25
1 to 10	2002-440	25

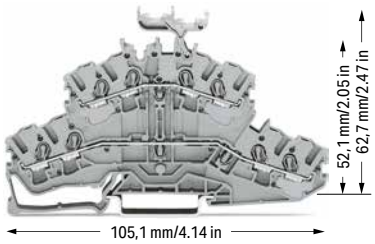
Double-deck vertical jumper; insulated; I_N 24 A

light gray	2002-492	100 (25)
orange	2002-492/000-012	100 (25)

4-Conductor Double-Deck Terminal Block TOPJOB® S
2.5 (4) mm²; 2002 Series

1

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
800 V/8 kV/3 ❷	600 V, 20 A
I_N 24 A (28 A)	600 V, 20 A
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



4-conductor double-deck terminal block; through/through terminal block; with marker carrier; gray housing

	Item No.	Pack. Unit
L/L	2002-2431 ❹	50
N/L	2002-2432 ❹	50
L/N	2002-2433 ❹	50

4-conductor double-deck terminal block; through/through terminal block; without marker carrier; gray housing

	Item No.	Pack. Unit
L/L	2002-2401 ❹	50
N/L	2002-2402 ❹	50
L/N	2002-2403 ❹	50

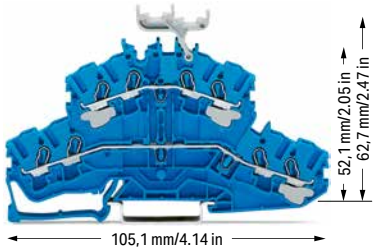
4-conductor double-deck terminal block; 8-conductor through terminal block; with marker carrier; internally commoned; violet conductor entry; gray housing

	Item No.	Pack. Unit
L	2002-2438 ❹	50

4-conductor double-deck terminal block; 8-conductor through terminal block; without marker carrier; internally commoned; violet conductor entry; gray housing

	Item No.	Pack. Unit
L	2002-2408 ❹	50

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
800 V/8 kV/3 ❷	600 V, 20 A
I_N 24 A (28 A)	600 V, 20 A
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



4-conductor double-deck terminal block; through/through terminal block; with marker carrier; blue housing

	Item No.	Pack. Unit
N/N	2002-2434 ❸ ❹	50

4-conductor double-deck terminal block; through/through terminal block; without marker carrier; blue housing

	Item No.	Pack. Unit
N/N	2002-2404 ❸ ❹	50

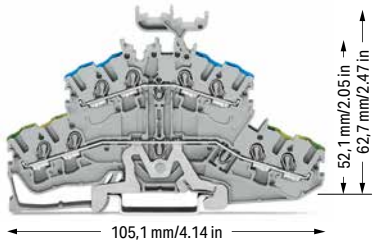
4-conductor double-deck terminal block; 8-conductor through terminal block; with marker carrier; internally commoned; violet conductor entry; blue housing

	Item No.	Pack. Unit
N	2002-2439 ❸ ❹	50

4-conductor double-deck terminal block; 8-conductor through terminal block; without marker carrier; internally commoned; violet conductor entry; blue housing

	Item No.	Pack. Unit
N	2002-2409 ❸ ❹	50

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
800 V/8 kV/3 ❷	600 V, 20 A
I_N 24 A (28 A)	600 V, 20 A
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



4-conductor double-deck terminal block; ground conductor/through terminal block; with marker carrier; gray housing

	Item No.	Pack. Unit
PE/N	2002-2447 ❹	50
PE/L	2002-2457 ❹	50

4-conductor double-deck terminal block; ground conductor/through terminal block; without marker carrier; gray housing

	Item No.	Pack. Unit
PE/N	2002-2417 ❹	50
PE/L	2002-2427 ❹	50

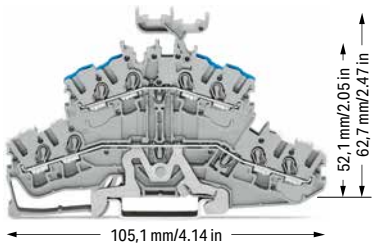
4-conductor double-deck terminal block; 8-conductor ground terminal block; with marker carrier; internally commoned; green-yellow housing

	Item No.	Pack. Unit
PE	2002-2437 ❹	50

4-conductor double-deck terminal block; 8-conductor ground terminal block; without marker carrier; internally commoned; green-yellow housing

	Item No.	Pack. Unit
PE	2002-2407 ❹	50

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
800 V/8 kV/3 ❷	600 V, 20 A
I_N 24 A (28 A)	600 V, 20 A
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



4-conductor double-deck terminal block; shield/through terminal block; with marker carrier; gray housing

	Item No.	Pack. Unit
Shield/N	2002-2448	50
Shield/L	2002-2458	50

4-conductor double-deck terminal block; shield/through terminal block; without marker carrier; gray housing

Shield/N	2002-2418	50
Shield/L	2002-2428	50

❶ Conductor range: 0.25 … 4 mm² "s+f-st"; Push-in termination: 1 … 4 mm² "s" and 1 … 2.5 mm² "insulated ferrules, 12 mm" Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 800 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

❸ Terminal blocks with a blue insulated housing are suitable for Ex i applications.

❹ Terminal blocks with an Ex mark are suitable for Ex e II applications.
550 V; 21 A
17 A jumper
16 A staggered jumper
(see Section 14)

Please observe the application notes:
Jumpers, from page 157
Testing accessories, from page 151
Marking, from page 588

Approvals and corresponding ratings, visit www.wago.com

Accessories; 2002 Series

Appropriate marking systems: WMB/WMB Inline/Marking strips

End and intermediate plate; 0.8 mm thick

orange	2002-2492	100 (25)
gray	2002-2491	100 (25)

Insulation stop; 5 pcs/strip; 0.25 … 0.5 mm²

light gray	2002-171	200 (25)

Insulation stop; 5 pcs/strip; 0.75 … 1 mm²

dark gray	2002-172	200 (25)

Push-in type jumper bar; insulated; I_N 25 A; light gray

2-way	2002-402	25
3-way	2002-403	25
4-way	2002-404	25
5-way	2002-405	25
6-way	2002-406	25
7-way	2002-407	25
8-way	2002-408	25
9-way	2002-409	25
10-way	2002-410	25

Push-in type jumper bar; insulated; I_N 25 A; light gray

1 to 3	2002-433	25
1 to 4	2002-434	25
1 to 5	2002-435	25
1 to 6	2002-436	25
1 to 7	2002-437	25
1 to 8	2002-438	25
1 to 9	2002-439	25
1 to 10	2002-440	25

Double-deck vertical jumper; insulated; I_N 24 A

light gray	2002-492	100 (25)
orange	2002-492/000-012	100 (25)

Adjacent jumper for continuous commoning; insulated; I_N 25 A, light gray

2-way	2002-400	25

Accessories; 2002 Series

Appropriate marking systems: WMB/WMB Inline/Marking strips

Adjacent jumper for continuous commoning; insulated; I_N 25 A; 1 to 3

light gray	2002-423	25
red	2002-423/000-005	25
blue	2002-423/000-006	25

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks

yellow	2002-115	100 (25)

Test plug adapter; for 4 mm Ø test plug

gray	2009-174	100 (25)

Banana plug; for 4 mm socket diameter; color mixed; 10 x orange, white, black, blue, yellow; max. 42 V

	215-111	50

Testing tap; for max. 2.5 mm²

gray	2009-182	100 (25)

WMB Inline, plain; 1,500 WMB markers (5 mm)/reel; 5 … 5.2 mm stretchable

white	2009-115	1

Marking strip; plain; 11 mm wide; 50 m reel

white	2009-110	1

WMB marking card; white; 10 strips with 10 markers/card; 5 … 5.2 mm stretchable

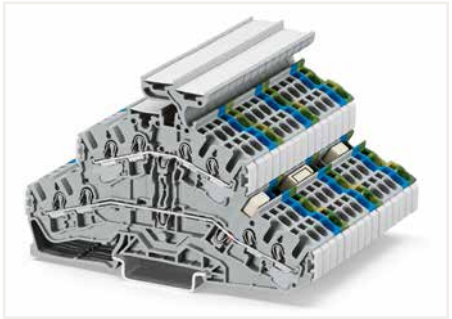
plain	793-5501	5

Double-deck marker carrier; pivoting

gray	2002-121	50 (25)

Group marker carrier; snap-on type for jumper slot; 5 mm wide

gray	2009-191	50 (25)

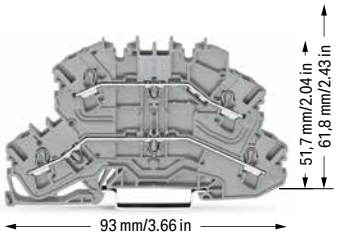


Double-deck terminal block assembly

Double-Deck Terminal Block TOPJOB® S
2.5 (4) mm²; 2002 Series

1

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
500 V/6 kV/3 ❷	300 V, 20 A
I_N 24 A (28 A)	
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	

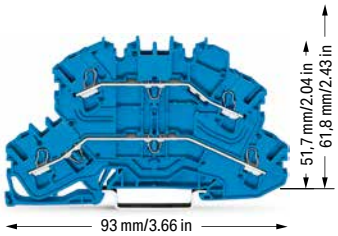


Double-deck terminal block; through/through terminal block; same profile as double-deck disconnect terminal block; without marker carrier; gray housing

	Item No.	Pack. Unit
L/L	2002-2601 ❹	50
N/L	2002-2602 ❹	50
L/N	2002-2603 ❹	50

Other terminal blocks with the same profile:		
Carrier	2002-2661	Page 74
Disconnect	2002-2671	Page 74
Fuse	2002-2611	Page 75

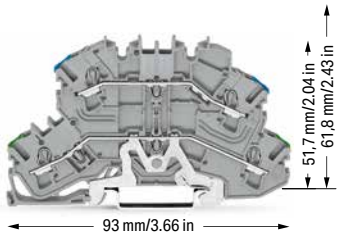
Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
500 V/6 kV/3 ❷	300 V, 20 A
I_N 24 A (28 A)	
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



Double-deck terminal block; through/through terminal block; same profile as double-deck disconnect terminal block; without marker carrier; blue housing

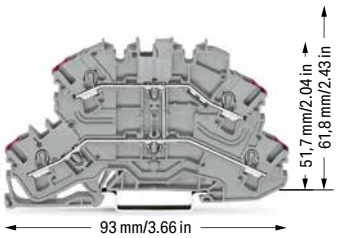
	Item No.	Pack. Unit
N/N	2002-2604 ❸ ❹	50

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
500 V/6 kV/3 ❷	300 V, 20 A
I_N 24 A (28 A)	
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



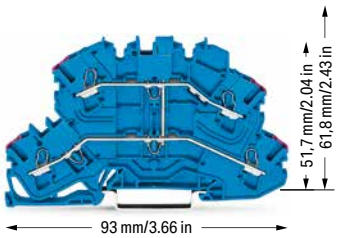
Double-deck terminal block; ground conductor/through terminal block; same profile as double-deck disconnect terminal block; without marker carrier; gray housing

	Item No.	Pack. Unit
PE/N	2002-2647 ❹	50
PE/L	2002-2657 ❹	50



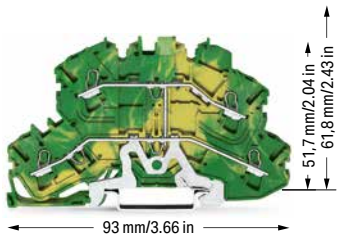
Double-deck terminal block; 4-conductor through terminal block; same profile as double-deck disconnect terminal block; without marker carrier; internally commoned; violet conductor entry; gray housing

	Item No.	Pack. Unit
L	2002-2608 ❹	50



Double-deck terminal block; 4-conductor through terminal block; same profile as double-deck disconnect terminal block; without marker carrier; internally commoned; violet conductor entry; blue housing

	Item No.	Pack. Unit
N	2002-2609 ❸ ❹	50



Double-deck terminal block; 4-conductor ground terminal block; same profile as double-deck disconnect terminal block; without marker carrier; internally commoned; green-yellow housing

	Item No.	Pack. Unit
PE	2002-2607 ❹	50

❶ Conductor range: 0.25 … 4 mm² “s+f-st”;
Push-in termination: 1 … 4 mm² “s” and 1 … 2.5 mm² “insulated ferrules, 12 mm”
Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 500 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

❸ Terminal blocks with a blue insulated housing are suitable for Ex i applications.

❹ Terminal blocks with an Ex mark are suitable for Ex ec IIc applications.
(see Section 14)

Please observe the application notes:
Jumpers, from page 157
Testing accessories, from page 151
Marking, from page 588

Approvals and corresponding ratings, visit www.wago.com

Accessories; 2002 Series

Appropriate marking systems:
WMB/WMB Inline/Marking strips

End and intermediate plate; 1 mm thick

orange	**2002-2692**	100 (25)
gray	**2002-2691**	100 (25)

Double-deck marker carrier; pivoting

gray	**2002-121**	50 (25)

Insulation stop; 5 pcs/strip; 0.25 … 0.5 mm²

light gray	**2002-171**	200 (25)

Insulation stop; 5 pcs/strip; 0.75 … 1 mm²

dark gray	**2002-172**	200 (25)

Push-in type jumper bar; insulated; I_N 25 A; light gray

2-way	**2002-402**	25
3-way	**2002-403**	25
4-way	**2002-404**	25
5-way	**2002-405**	25
6-way	**2002-406**	25
7-way	**2002-407**	25
8-way	**2002-408**	25
9-way	**2002-409**	25
10-way	**2002-410**	25

Push-in type jumper bar; insulated; I_N 25 A; light gray

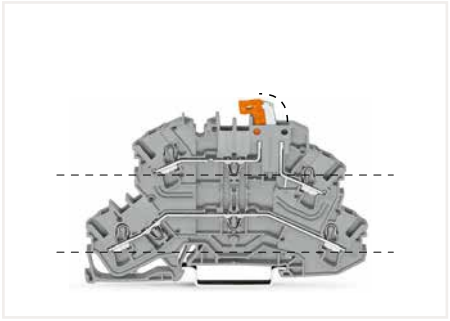
1 to 3	**2002-433**	25
1 to 4	**2002-434**	25
1 to 5	**2002-435**	25
1 to 6	**2002-436**	25
1 to 7	**2002-437**	25
1 to 8	**2002-438**	25
1 to 9	**2002-439**	25
1 to 10	**2002-440**	25

Double-deck vertical jumper; insulated; I_N 24 A

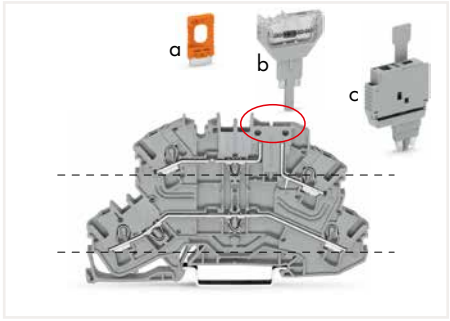
light gray	**2002-492**	100 (25)
orange	**2002-492/000-012**	100 (25)

Adjacent jumper for continuous commoning; insulated; I_N 25 A, light gray

2-way	**2002-400**	25



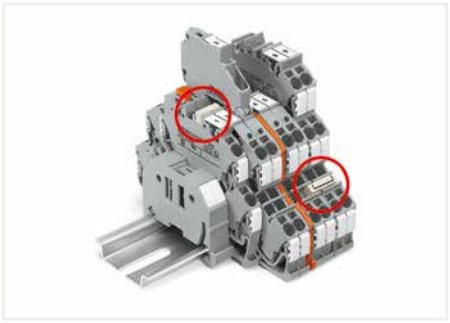
Double-deck disconnect terminal blocks with a pivoting knife disconnect (2002-2671) can be used as through terminal blocks on the lower deck and as disconnect terminal blocks on the upper deck.
Besides disconnection and measurement, double-deck carrier terminal blocks (2002-2667) also provide ground conductor functionality.



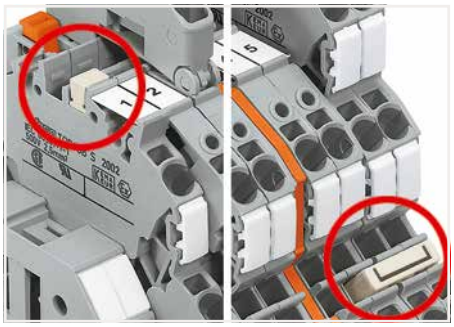
Carrier terminal blocks (2002-2661) have the same design as disconnect terminal blocks.
The following components may be used:
- Disconnect plugs (a: 2002-401)
- Pluggable diode (b: 2002-800/1000-411)
- LED module (2002-800/1000-541, no illustration)
- Fuse plug (c: 2004-911)

Double-deck fuse disconnect terminal blocks with a pivoting fuse holder (2002-2611, gray) are compatible with disconnect, carrier, through and ground conductor terminal blocks. The fuse holder is also available with a blown fuse LED indicator (e.g., 2002-2611/1000-541 for 12–30 V).

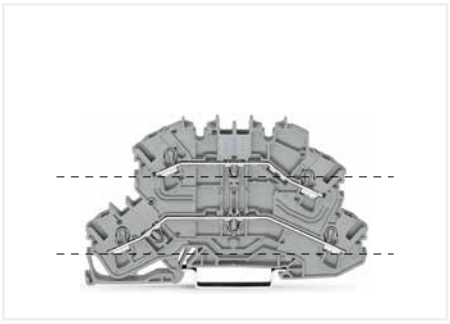
An end plate for fuse disconnect terminal blocks (shown in orange, 2002-1092) is used for additional protection, preventing the fuse holder from being opened. The fuse cannot be replaced until disconnecting the fuse holder from the power supply.



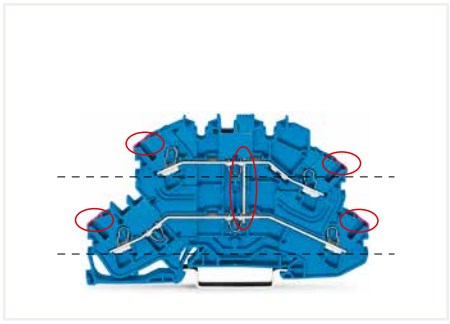
The same profile allows for commoning with double-deck terminal blocks (upper deck) and with triple-deck terminal blocks (lower deck).



Left picture – Vertical jumper (2002-492)
Right picture – Push-in type jumper bar (2002 Series)



Through terminal blocks (2002-2601) feature two independent current bars on both lower and upper deck, sharing the same profile as disconnect terminal blocks.
These terminal blocks can be commoned via double-deck vertical jumpers (2002-492).



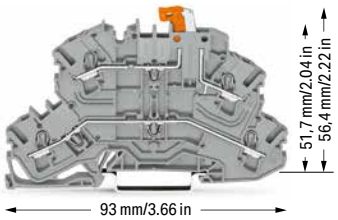
4-conductor through terminal blocks (2002-2609) with internal commoning can be immediately identified via violet conductor entry.

PUSH-IN CAGE CLAMP®

Double-Deck Disconnect Terminal Block and Carrier Terminal Block TOPJOB® S
2.5 (4) mm²; 2002 Series

1

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
400 V/6 kV/3 ❷	300 V, 20 A
I_N 16 A	
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



Double-deck disconnect terminal block; with a pivoting knife disconnect; gray housing

	Item No.	Pack. Unit
L/L	2002-2671 ❸	50
N/L	2002-2672 ❸	50

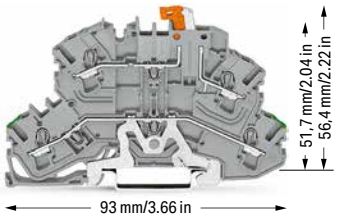
Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
400 V/6 kV/3 ❷	300 V, 20 A
I_N 16 A	
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	

Double-deck carrier terminal block; upper-deck base; gray housing

	Item No.	Pack. Unit
L/L	2002-2661 ❸	50
N/L	2002-2662 ❸	50

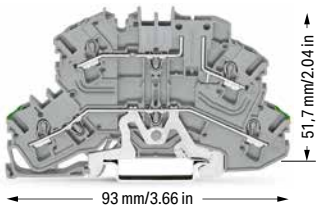
Other terminal blocks with the same profile:

Through	2002-2601	Page 72
Fuse	2002-2611	Page 75



Double-deck disconnect terminal block; with a pivoting knife disconnect; gray housing

	Item No.	Pack. Unit
Shield/L	2002-2678 ❸	50



Double-deck carrier terminal block; upper-deck base; gray housing

	Item No.	Pack. Unit
PE/L	2002-2667 ❸	50

❶ Conductor range: 0.25 … 4 mm² "s+f-st"; Push-in termination: 1 … 4 mm² "s" and 1 … 2.5 mm² "insulated ferrules, 12 mm" Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 400 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

❸ Terminal blocks with an Ex mark are suitable for Ex ec IIc applications.
(see Section 14)

Please observe the application notes:
Jumpers, from page 157
Testing accessories, from page 151
Marking, from page 588

Approvals and corresponding ratings, visit www.wago.com

Accessories; 2002 Series

Appropriate marking systems:
WMB/WMB Inline/Marking strips

End and intermediate plate; 1 mm thick

orange	2002-2692	100 (25)
gray	2002-2691	100 (25)

Double-deck marker carrier; pivoting

gray	2002-121	50 (25)

Insulation stop; 5 pcs/strip; 0.25 … 0.5 mm²

light gray	2002-171	200 (25)

Insulation stop; 5 pcs/strip; 0.75 … 1 mm²

dark gray	2002-172	200 (25)

Push-in type jumper bar; insulated; I_N 25 A; light gray

2-way	2002-402	25
3-way	2002-403	25
4-way	2002-404	25
5-way	2002-405	25
6-way	2002-406	25
7-way	2002-407	25
8-way	2002-408	25
9-way	2002-409	25
10-way	2002-410	25

Push-in type jumper bar; insulated; I_N 25 A; light gray

1 to 3	2002-433	25
1 to 4	2002-434	25
1 to 5	2002-435	25
1 to 6	2002-436	25
1 to 7	2002-437	25
1 to 8	2002-438	25
1 to 9	2002-439	25
1 to 10	2002-440	25

Double-deck vertical jumper; insulated; I_N 24 A

light gray	2002-492	100 (25)
orange	2002-492/000-012	100 (25)

Adjacent jumper for continuous commoning; insulated; I_N 25 A, light gray

2-way	2002-400	25

PUSH-IN CAGE CLAMP®

Double-Deck Fuse Terminal Block TOPJOB® S
2.5 (4) mm²; 2002 Series

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
250 V/6 kV/3 ❷	300 V, 6.3 A
I_N 6.3 A	
Terminal block width: 6.2 mm / 0.244 inch	
10 … 12 mm / 0.39 … 0.47 inch	

Double-deck fuse disconnect terminal block with a pivoting fuse holder; through/fuse terminal block; for 5 x 20 mm glass cartridge fuse; without blown fuse indication; gray
Electrical ratings are given by the fuse.

	Item No.	Pack. Unit
L/L	2002-2611 ❸	25
N/L	2002-2612 ❸	25

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
250 V/6 kV/3 ❷	300 V, 6.3 A
I_N 6.3 A	
Terminal block width: 6.2 mm / 0.244 inch	
10 … 12 mm / 0.39 … 0.47 inch	

Double-deck fuse disconnect terminal block with a pivoting fuse holder; through/fuse terminal block; for 5 x 20 mm glass cartridge fuse; with blown fuse indication by LED; gray
Electrical ratings are given by the fuse and blown fuse indication. Leakage current in case of a blown fuse: LED 2 mA

	Item No.	Pack. Unit
12 … 30 V	2002-2611/1000-541 ❸	25
30 … 65 V	2002-2611/1000-542 ❸	25
230 V	2002-2611/1000-836 ❸	25
120 V	2002-2611/1000-867 ❸	25

Other terminal blocks with the same profile:		
Through	2002-2601	Page 72

Accessories; 2002 Series

Appropriate marking systems: WMB/Marking strips

End and intermediate plate; 1 mm thick

orange	2002-2692	100 (25)
gray	2002-2691	100 (25)

End plate for fuse terminal blocks; 2 mm thick

orange	2002-1092	100 (25)
gray	2002-1091	100 (25)

Push-in type jumper bar; insulated; I_N 32 A; light gray

2-way	2004-402	25
3-way	2004-403	25
4-way	2004-404	25
5-way	2004-405	25
6-way	2004-406	25
7-way	2004-407	25
8-way	2004-408	25
9-way	2004-409	25
10-way	2004-410	25

Push-in type jumper bar; insulated; I_N 32 A; light gray

1 to 3	2004-433	25
1 to 4	2004-434	25
1 to 5	2004-435	25
1 to 6	2004-436	25
1 to 7	2004-437	25
1 to 8	2004-438	25
1 to 9	2004-439	25
1 to 10	2004-440	25

Double-deck vertical jumper; insulated; I_N 24 A

light gray	2002-492	100 (25)
orange	2002-492/000-012	100 (25)

Insulation stop; 5 pcs/strip; 0.25 … 0.5 mm²

light gray	2002-171	200 (25)

Insulation stop; 5 pcs/strip; 0.75 … 1 mm²

dark gray	2002-172	200 (25)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks

yellow	2002-115	100 (25)

Test plug; with 500 mm cable; 2 mm Ø; max. 42 V

red	210-136	50

Test plug; with 500 mm cable; 2.3 mm Ø; max. 42 V

	210-137	50

Marking strip; plain; 11 mm wide; 50 m reel

white	2009-110	1

WMB marking card; white; 10 strips with 10 markers/card; 5 … 5.2 mm stretchable

plain	793-5501	5

❶ Conductor range: 0.25 … 4 mm² “s+f-st”; Push-in termination: 1 … 4 mm² “s” and 1 … 2.5 mm² “insulated ferrules, 12 mm”
Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

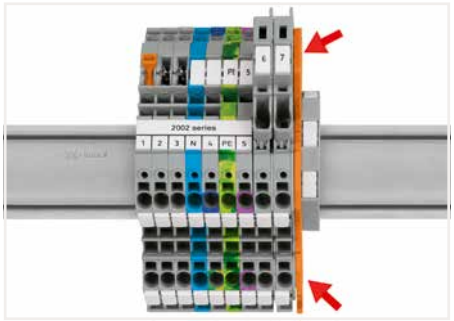
❷ 250 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

❸ Terminal blocks with an Ex mark are suitable for Ex ec IIc applications.
(see Section 14)

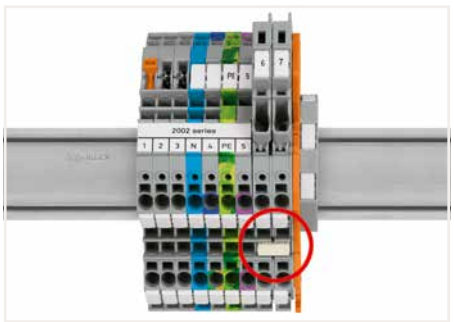
Please observe the application notes:
Jumpers, from page 157
Marking, from page 588

A protective warning marker and an insulation stop must be applied individually. Due to the 6.2 mm width of double-deck terminal blocks with end plates, 2004 Series Push-In Type Jumper Bars must be used.

Approvals and corresponding ratings, visit www.wago.com



Additionally, an end plate for fuse terminal blocks (e.g., 2002-1092, orange) must be used at the end of an assembly or if there is no adjacent fuse terminal block.

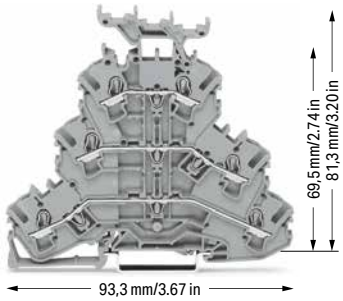


An intermediate plate is supplied with all 6.2 mm wide fused disconnect terminal blocks.
Due to the 6.2 mm width of fuse disconnect terminal blocks with a pivoting fuse holder, 2004 Series Push-In Type Jumper Bars must be used.

Triple-Deck Terminal Block TOPJOB® S
2.5 (4) mm²; 2002 Series

1

Technical Data	
0.25 … 2.5 (4) mm² 1	22 … 12 AWG
500 V/6 kV/3 2	600 V, 20 A
I_N 24 A (28 A)	600 V, 20 A
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



Triple-deck terminal block; through/through/through terminal block; with marker carrier; gray housing

	Item No.	Pack. Unit
L/L/L	2002-3231 4	50
L/L/N	2002-3233 4	50

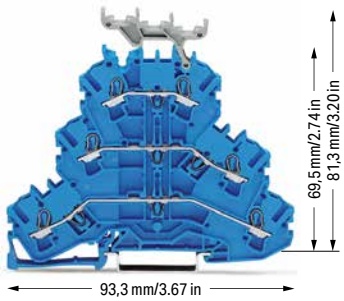
Triple-deck terminal block; through/through/through terminal block; without marker carrier; gray housing

	Item No.	Pack. Unit
L/L/L	2002-3201 4	50
L/L/N	2002-3203 4	50

Other terminal blocks with the same profile:

Diode	2002-3211/1000-410	Page 136
LED	2002-3221/1000-434	Page 136

Technical Data	
0.25 … 2.5 (4) mm² 1	22 … 12 AWG
500 V/6 kV/3 2	600 V, 20 A
I_N 24 A (28 A)	600 V, 20 A
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



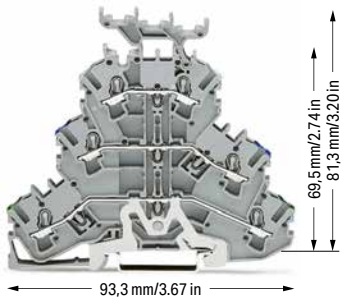
Triple-deck terminal block; through/through/through terminal block; with marker carrier; blue housing

	Item No.	Pack. Unit
N/N/N	2002-3234 3 4	50

Triple-deck terminal block; through/through/through terminal block; without marker carrier; blue housing

	Item No.	Pack. Unit
N/N/N	2002-3204 3 4	50

Technical Data	
0.25 … 2.5 (4) mm² 1	22 … 12 AWG
500 V/6 kV/3 2	600 V, 20 A
I_N 24 A (28 A)	600 V, 20 A
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	

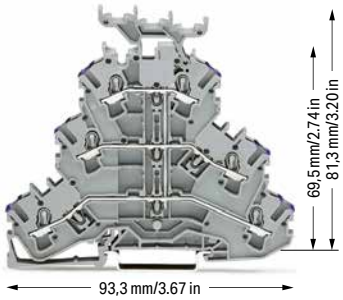


Triple-deck terminal block; through/through/through terminal block; with marker carrier; blue housing

	Item No.	Pack. Unit
PE/N/L	2002-3247 4	50
PE/L/L	2002-3257 4	50

Triple-deck terminal block; ground conductor/through/through terminal block; without marker carrier; gray housing

	Item No.	Pack. Unit
PE/N/L	2002-3217 4	50
PE/L/L	2002-3227 4	50

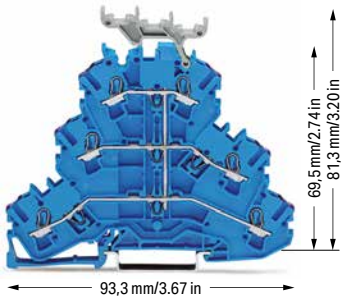


Triple-deck terminal block; 6-conductor through terminal block; with marker carrier; internally commoned; violet conductor entry; gray housing

	Item No.	Pack. Unit
L	2002-3238 4	50

Triple-deck terminal block; 6-conductor through terminal block; without marker carrier; internally commoned; violet conductor entry; gray housing

	Item No.	Pack. Unit
L	2002-3208 4	50

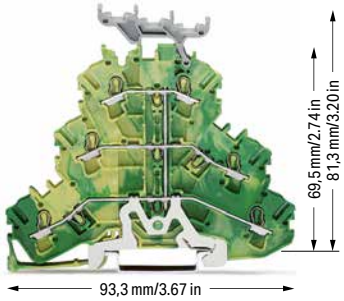


Triple-deck terminal block; 6-conductor through terminal block; with marker carrier; internally commoned; violet conductor entry; blue housing

	Item No.	Pack. Unit
N	2002-3239 3 4	50

Triple-deck terminal block; 6-conductor through terminal block; without marker carrier; internally commoned; violet conductor entry; blue housing

	Item No.	Pack. Unit
N	2002-3209 3 4	50



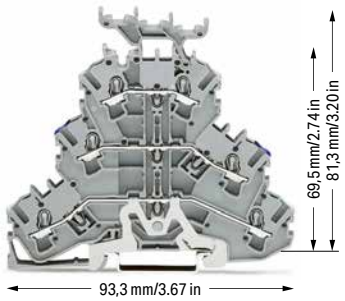
Triple-deck terminal block; 6-conductor ground terminal block; with marker carrier; internally commoned; green-yellow housing

	Item No.	Pack. Unit
PE	2002-3237 4	50

Triple-deck terminal block; 6-conductor ground terminal block; without marker carrier; internally commoned; green-yellow housing

	Item No.	Pack. Unit
PE	2002-3207 4	50

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
500 V/6 kV/3 ❷	600 V, 20 A
I_N 24 A (28 A)	600 V, 20 A
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



Triple-deck terminal block; shield/through/through terminal block; with marker carrier; gray housing

	Item No.	Pack. Unit
Shield/N/L	2002-3248	50
Shield/L/L	2002-3258	50

Triple-deck terminal block; shield/through/through terminal block; without marker carrier; gray housing

Shield/N/L	2002-3218	50
Shield/L/L	2002-3228	50

❶ Conductor range: 0.25 … 4 mm² "s+f-st";
Push-in termination: 1 … 4 mm² "s" and 1 … 2.5 mm² "insulated ferrules, 12 mm"
Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 500 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

❸ Terminal blocks with a blue insulated housing are suitable for Ex i applications.

❹ Terminal blocks with an Ex mark are suitable for Ex e II applications.
440 V, 19 A
17 A jumper
(see Section 14)

Please observe the application notes:
Jumpers, from page 157
Testing accessories, from page 151
Marking, from page 588

Approvals and corresponding ratings, visit www.wago.com

Accessories; 2002 Series

Appropriate marking systems:
WMB/WMB Inline/Marking strips

End and intermediate plate; 0.8 mm thick

orange	2002-3292	100 (25)
gray	2002-3291	100 (25)

Triple-deck marker carrier; pivoting

gray	2002-131	50 (25)

Insulation stop; 5 pcs/strip; 0.25 … 0.5 mm²

light gray	2002-171	200 (25)

Insulation stop; 5 pcs/strip; 0.75 … 1 mm²

dark gray	2002-172	200 (25)

Push-in type jumper bar; insulated; I_N 25 A; light gray

2-way	2002-402	25
3-way	2002-403	25
4-way	2002-404	25
5-way	2002-405	25
6-way	2002-406	25
7-way	2002-407	25
8-way	2002-408	25
9-way	2002-409	25
10-way	2002-410	25

Push-in type jumper bar; insulated; I_N 25 A; light gray

1 to 3	2002-433	25
1 to 4	2002-434	25
1 to 5	2002-435	25
1 to 6	2002-436	25
1 to 7	2002-437	25
1 to 8	2002-438	25
1 to 9	2002-439	25
1 to 10	2002-440	25

Double-deck vertical jumper; insulated; I_N 24 A

light gray	2002-492	100 (25)
orange	2002-492/000-012	100 (25)

Triple-deck vertical jumper; insulated; I_N 24 A

light gray	2002-493	100 (25)

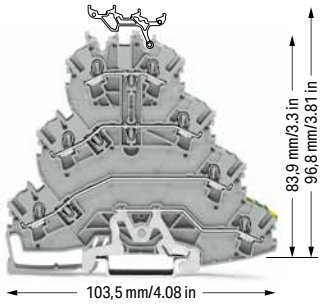
Triple-deck vertical jumpers (2002-493) common the three levels of triple-deck terminal blocks.

Combination of multilevel terminal blocks

Quadruple-Deck Rail-Mount Terminal Block for Wiring of Electric Motors TOPJOB® S
2.5 (4) mm²; 2002 Series

1

Technical Data
0.25 … 2.5 (4) mm² ❶ | 22 … 12 AWG
800 V/8 kV/3 ❷
I_N 20 A (25 A)
Terminal block width: 5.2 mm / 0.205 inch
10 … 12 mm / 0.39 … 0.47 inch



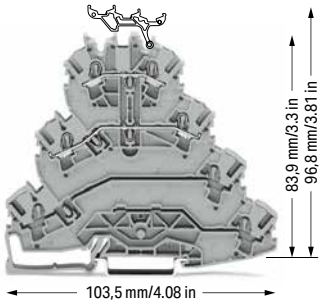
Quadruple-deck rail-mount terminal block; electric motor wiring rail-mount terminal block; without marker carrier; gray

	Item No.	Pack. Unit
L1 - L2 - L3 - PE	2002-4127 ❸	25

Quadruple-deck rail-mount terminal block; electric motor wiring rail-mount terminal block; with marker carrier; gray

	Item No.	Pack. Unit
L1 - L2 - L3 - PE	2002-4157 ❸	25

Technical Data
0.25 … 2.5 (4) mm² ❶ | 22 … 12 AWG
800 V/8 kV/3 ❷
I_N 20 A (25 A)
Terminal block width: 5.2 mm / 0.205 inch
10 … 12 mm / 0.39 … 0.47 inch



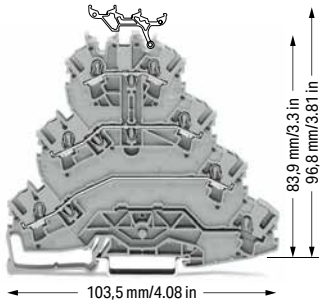
Quadruple-deck rail-mount terminal block; electric motor wiring rail-mount terminal block; without marker carrier; gray

	Item No.	Pack. Unit
L1 - L2	2002-4111 ❸	25

Quadruple-deck rail-mount terminal block; electric motor wiring rail-mount terminal block; with marker carrier; gray

	Item No.	Pack. Unit
L1 - L2	2002-4141 ❸	25

Technical Data
0.25 … 2.5 (4) mm² ❶ | 22 … 12 AWG
800 V/8 kV/3 ❷
I_N 20 A (25 A)
Terminal block width: 5.2 mm / 0.205 inch
10 … 12 mm / 0.39 … 0.47 inch



Quadruple-deck rail-mount terminal block; electric motor wiring rail-mount terminal block; without marker carrier; gray

	Item No.	Pack. Unit
L1 - L2 - L3	2002-4101 ❸	25

Quadruple-deck rail-mount terminal block; electric motor wiring rail-mount terminal block; with marker carrier; gray

	Item No.	Pack. Unit
L1 - L2 - L3	2002-4131 ❸	25

Accessories; 2002 Series

Appropriate marking systems: WMB/WMB Inline/Marking strips

End and intermediate plate; 1 mm thick

orange	2002-4192	100 (25)
gray	2002-4191	100 (25)

Insulation stop; 5 pcs/strip; 0.25 … 0.5 mm²

light gray	2002-171	200 (25)

Insulation stop; 5 pcs/strip; 0.75 … 1 mm²

dark gray	2002-172	200 (25)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks

yellow	2002-115	100 (25)

Lockout cap; for conductor entry and operating slot

orange	2002-192	25
gray	2002-191	25
blue	2002-194	25

Push-in type jumper bar; insulated; I_N 25 A; light gray

2-way	2002-402	25
3-way	2002-403	25
4-way	2002-404	25
5-way	2002-405	25
6-way	2002-406	25
7-way	2002-407	25
8-way	2002-408	25
9-way	2002-409	25
10-way	2002-410	25

Adjacent jumper for continuous commoning; insulated; I_N 25 A, light gray

2-way	2002-415	25

Push-in type jumper bar; insulated; I_N 25 A; light gray

1 to 3	2002-433	25
1 to 4	2002-434	25
1 to 5	2002-435	25
1 to 6	2002-436	25
1 to 7	2002-437	25
1 to 8	2002-438	25
1 to 9	2002-439	25
1 to 10	2002-440	25

Delta jumper; insulated; I_N = I_N terminal block; light gray

1-2 3-4 5-6	2002-406/020-000	25

Star point jumper; insulated; I_N = I_N terminal block; light gray

1-3-5	2002-405/011-000	25

Staggered jumper; insulated; I_N 25 A; light gray

2-way	2002-472	25
3-way	2002-473	25
4-way	2002-474	25
5-way	2002-475	25
6-way	2002-476	25
7-way	2002-477	25
8-way	2002-478	25
9-way	2002-479	25
10-way	2002-480	25
11-way	2002-481	25
12-way	2002-482	25

Adjacent jumper for continuous commoning; insulated; I_N 25 A, light gray

5-way	2002-400	25

Adjacent jumper for continuous commoning; insulated; I_N 25 A; 1 to 3

light gray	2002-423	25
red	2002-423/000-005	25
blue	2002-423/000-006	25

Push-in type wire jumper; insulated; 1.5 mm² conductor cross-section; I_N 18 A

L = 60 mm	2009-412	100 (10)
L = 110 mm	2009-414	100 (10)
L = 250 mm	2009-416	100 (10)

WMB Inline, plain; 1,500 WMB markers (5 mm)/reel; 5 … 5.2 mm stretchable

white	2009-115	1

Marking strip; plain; 11 mm wide; 50 m reel

white	2009-110	1

WMB marking card; white; 10 strips with 10 markers/card; 5 … 5.2 mm stretchable

plain	793-5501	5

Triple-deck marker carrier; pivoting

gray	2002-131	50 (25)

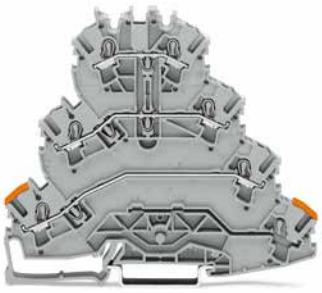
❶ Conductor range: 0.25 … 4 mm² “s+f-st”;
Push-in termination: 1 … 4 mm² “s” and 1 … 2.5 mm² “insulated ferrules, 12 mm”
Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 800 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

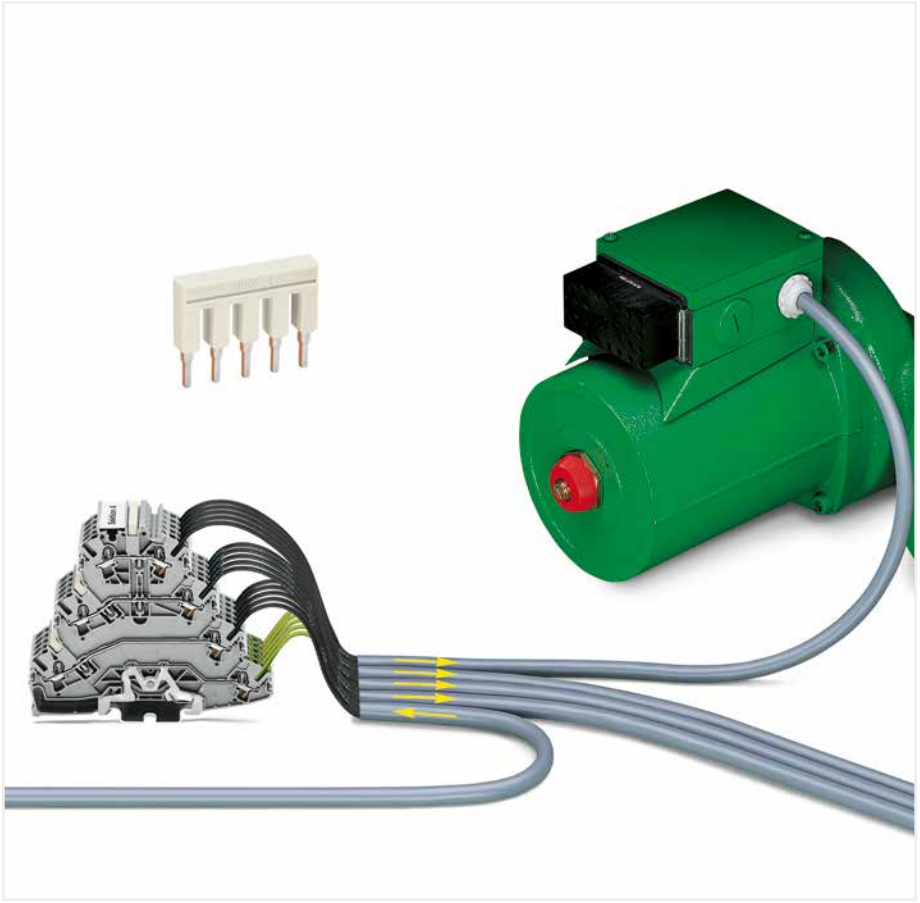
❸ Terminal blocks with an Ex mark are suitable for Ex e II applications.
440 V, 19 A
17 A jumper
(see Section 14)

Please observe the application notes:
Jumpers, from page 152
Testing accessories, from page 151
Marking, from page 588

Approvals and corresponding ratings, visit www.wago.com

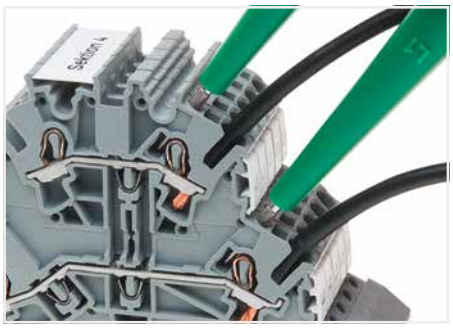


Creating spacer housings for electric motor wiring rail-mount terminal blocks via lockout caps (2002-192) for conductor entry and operating slot.

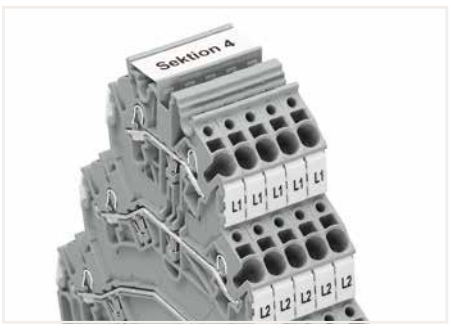


In addition to rail-mount terminal blocks for electric motor wiring, special versions are also available.

- Version without ground contact and only two potentials:
  These terminal blocks were custom designed to support additional functions, such as engine brakes or temperature sensors. Sharing a common profile, this terminal block version can be put next to the appropriate electric motor wiring terminal block without using intermediate plates. That makes the rail assembly easier to understand and wire. This also prevents wiring errors as no conductor entry is unused.
- Version without ground contact and with three potentials:
  Clearly designated clamping units are the primary advantage to this terminal block design. When using devices with protective insulation, for example, there are no open ground clamping units that could create confusion.



Testing with voltage tester.



Marking clamping points via WMB Multi Marking System. Group marking via marking strips (Item No. 709-177).

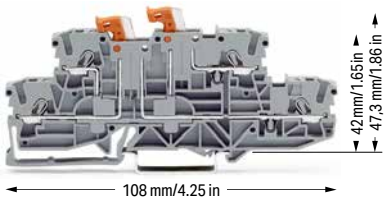
Double-Deck Disconnect/Test Terminal Block TOPJOB® S
2.5 (4) mm²; 2002 Series

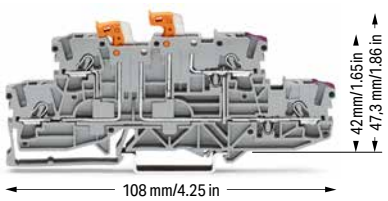
1

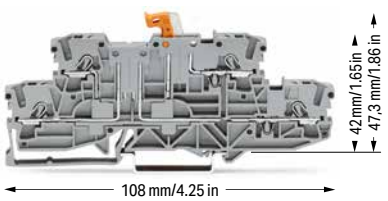
Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
400 V/6 kV/3 ❷	300 V, 15 A
I_N 16 A	300 V, 15 A
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
400 V/6 kV/3 ❷	300 V, 15 A
I_N 16 A	300 V, 15 A
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
400 V/6 kV/3 ❷	300 V, 15 A
I_N 16 A	300 V, 15 A
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	







Double-deck, double-disconnect terminal block; with 2 pivoting knife disconnects; gray housing

	Item No.	Pack. Unit
L/L	2002-2951 ❸	50
N/L	2002-2952 ❸	50

Double-deck, double-disconnect terminal block; with two pivoting knife disconnects; lower and upper decks internally commoned on right side, violet conductor entry; gray housing

	Item No.	Pack. Unit
L/L	2002-2958 ❸	50

Double-deck disconnect terminal block; with pivoting knife disconnect; same profile as double-deck, double-disconnect terminal block; gray housing

	Item No.	Pack. Unit
L/L	2002-2971 ❸	50
N/L	2002-2972 ❸	50

Double-deck, double-disconnect terminal block; with 2 pivoting knife disconnects; blue housing

N/N	2002-2954 ❸	50

Double-deck, double-disconnect terminal block; with two pivoting knife disconnects; lower and upper decks internally commoned on right side, violet conductor entry; blue housing

N/N	2002-2959 ❸	50

Double-deck disconnect terminal block; with pivoting knife disconnect; same profile as double-deck, double-disconnect terminal block; blue housing

N/N	2002-2974 ❸	50

Accessories; 2002 Series

Appropriate marking systems: WMB/WMB Inline/Marking strips

End and intermediate plate; 1 mm thick

orange	2002-2992	100 (25)
gray	2002-2991	100 (25)

Insulation stop; 5 pcs/strip; 0.25 … 0.5 mm²

light gray	2002-171	200 (25)

Insulation stop; 5 pcs/strip; 0.75 … 1 mm²

dark gray	2002-172	200 (25)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks

yellow	2002-115	100 (25)

Push-in type jumper bar; insulated; I_N 25 A; light gray

2-way	2002-402	25
3-way	2002-403	25
4-way	2002-404	25
5-way	2002-405	25
6-way	2002-406	25
7-way	2002-407	25
8-way	2002-408	25
9-way	2002-409	25
10-way	2002-410	25

Push-in type wire jumper; insulated; 1.5 mm² conductor cross-section; I_N 18 A

L = 60 mm	2009-412	100 (10)
L = 110 mm	2009-414	100 (10)
L = 250 mm	2009-416	100 (10)

Push-in type jumper bar; insulated; I_N 25 A; light gray

1 to 3	2002-433	25
1 to 4	2002-434	25
1 to 5	2002-435	25
1 to 6	2002-436	25
1 to 7	2002-437	25
1 to 8	2002-438	25
1 to 9	2002-439	25
1 to 10	2002-440	25

Delta jumper; insulated; I_N = I_N terminal block; light gray

1-2 3-4 5-6	2002-406/020-000	25

Star point jumper; insulated; I_N = I_N terminal block; light gray

1-3-5	2002-405/011-000	25

Staggered jumper; insulated; I_N 25 A; light gray

2-way	2002-472	25
3-way	2002-473	25
4-way	2002-474	25
5-way	2002-475	25
6-way	2002-476	25
7-way	2002-477	25
8-way	2002-478	25
9-way	2002-479	25
10-way	2002-480	25
11-way	2002-481	25
12-way	2002-482	25

Adjacent jumper for continuous commoning; insulated; I_N 25 A, light gray

2-way	2002-400	25

Adjacent jumper for continuous commoning; insulated; I_N 25 A; 1 to 3

light gray	2002-423	25
red	2002-423/000-005	25
blue	2002-423/000-006	25

Modular connector; snaps together; for jumper contact slot

gray	2002-511	100 (25)

Spacer module; snaps together; bridges commoned terminal blocks

gray	2002-549	100 (25)

End plate; for modular connector; 1.5 mm thick

gray	2002-541	100 (25)

Test plug adapter; for 4 mm Ø test plug

gray	2009-174	100 (25)

Banana plug; for 4 mm socket diameter; color mixed; 10 x orange, white, black, blue, yellow; max. 42 V

	215-111	50

❶ Conductor range: 0.25 … 4 mm² “s+f-st”;
Push-in termination: 1 … 4 mm² “s” and 1 … 2.5 mm² “insulated ferrules, 12 mm”
Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 400 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

❸ Terminal blocks with an Ex mark are suitable for Ex ec IIc applications.
(see Section 14)

Please observe the application notes:
Jumpers, from page 152
Testing accessories, from page 146
Marking, from page 588

Approvals and corresponding ratings, visit www.wago.com

Accessories; 2002 Series

Appropriate marking systems:
WMB/WMB Inline/Marking strips

Testing tap; for max. 2.5 mm²

gray	2009-182	100 (25)

WMB Inline, plain; 1,500 WMB markers (5 mm)/reel; 5 … 5.2 mm stretchable

white	2009-115	1

Marking strip; plain; 11 mm wide; 50 m reel

white	2009-110	1

WMB marking card; white; 10 strips with 10 markers/card; 5 … 5.2 mm stretchable

plain	793-5501	5

WMB marking card; plain; 10 strips with 10 markers/card; 5 … 5.2 mm stretchable

yellow	793-5501/000-002	5
red	793-5501/000-005	5
blue	793-5501/000-006	5
gray	793-5501/000-007	5
orange	793-5501/000-012	5
light green	793-5501/000-017	5
green	793-5501/000-023	5
violet	793-5501/000-024	5

Group marker carrier; snap-on type for jumper slot; 5 mm wide

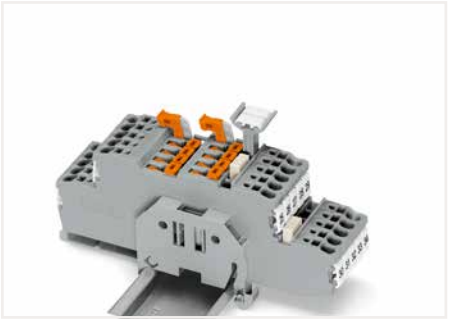
gray	2009-191	50 (25)

Screwless end stop; for DIN-35 rail; 6 mm wide

gray	249-116	100 (25)

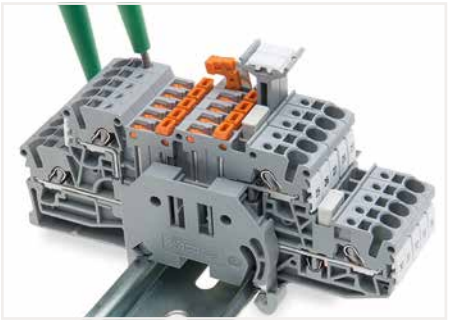
Screwless end stop; for DIN-35 rail; 10 mm wide

gray	249-117	50 (25)

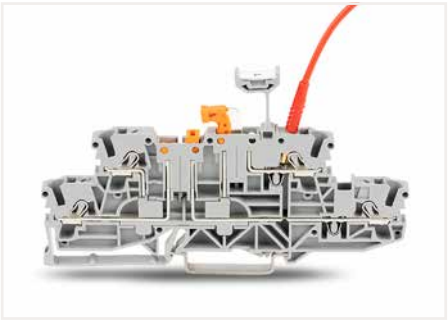


Double-deck, double-disconnect terminal blocks (2002-2951) with group marker carrier accommodated in jumper contact slot

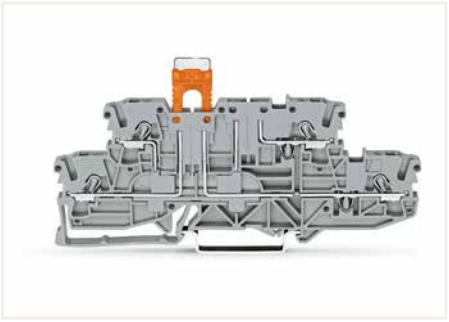
Double-deck, double-disconnect terminal block (2002-2951) with group marker carrier (2002-160) accommodated in jumper contact slot



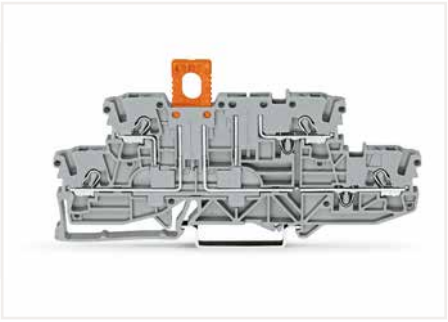
Testing with voltage tester.



Double-deck, double-disconnect terminal block (2002-2951) with group marker carrier (2002-160) accommodated in a jumper contact slot and test plug (210-136)



Carrier terminal block (2002-2941) with disconnect plug (2002-401) in parked position

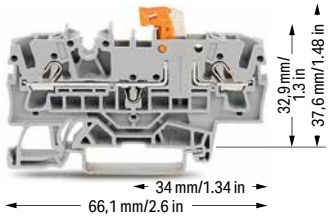


Carrier terminal block (2002-2941) with disconnect plug (2002-401) in operating position

Disconnect/Test Terminal Block and Through Terminal Block of Same Profile TOPJOB® S
2.5 (4) mm²; 2002 Series

1

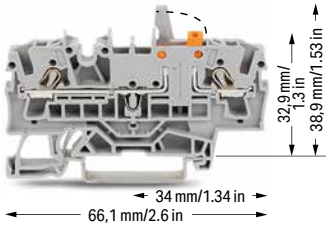
Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
400 V/6 kV/3 ❷	300 V, 15 A
I_N 16 A	300 V, 10 A
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



2-conductor disconnect/test terminal block; with test point; orange disconnect link

Color	Item No.	Pack. Unit
gray	2002-1671 ❸	50
blue	2002-1674 ❸	50
orange	2002-1672 ❸	50

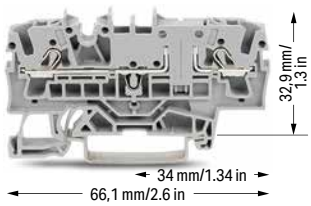
Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
400 V/6 kV/3 ❷	300 V, 15 A
I_N 16 A	
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



2-conductor disconnect/test terminal block; with mechanical interlock; with test point; orange disconnect link

Color	Item No.	Pack. Unit
gray	2002-1671/401-000 ❸	50
blue	2002-1674/401-000 ❸	50
orange	2002-1672/401-000 ❸	50

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
400 V/6 kV/3 ❷	300 V, 15 A
I_N 16 A	300 V, 10 A
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



2-conductor through terminal block; with test point; same profile as 2-conductor disconnect terminal block

Color	Item No.	Pack. Unit
gray	2002-1601 ❸	50
blue	2002-1604 ❸	50
orange	2002-1602 ❸	50

Other terminal blocks with the same profile:

Carrier	2002-1661	Page 114
Fuse	2002-1681	Page 88

Accessories; 2002 Series

Appropriate marking systems: WMB/WMB Inline/Marking strips

End and intermediate plate; 1 mm thick

orange	2002-1692	100 (25)
gray	2002-1691	100 (25)

Insulation stop; 5 pcs/strip; 0.25 … 0.5 mm²

light gray	2002-171	200 (25)

Insulation stop; 5 pcs/strip; 0.75 … 1 mm²

dark gray	2002-172	200 (25)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks

yellow	2002-115	100 (25)

Push-in type jumper bar; insulated; I_N 25 A; light gray

2-way	2002-402	25
3-way	2002-403	25
4-way	2002-404	25
5-way	2002-405	25
6-way	2002-406	25
7-way	2002-407	25
8-way	2002-408	25
9-way	2002-409	25
10-way	2002-410	25

Push-in type wire jumper; insulated; 1.5 mm² conductor cross-section; I_N 18 A

L = 60 mm	2009-412	100 (10)
L = 110 mm	2009-414	100 (10)
L = 250 mm	2009-416	100 (10)

Push-in type jumper bar; insulated; I_N 25 A; light gray

1 to 3	2002-433	25
1 to 4	2002-434	25
1 to 5	2002-435	25
1 to 6	2002-436	25
1 to 7	2002-437	25
1 to 8	2002-438	25
1 to 9	2002-439	25
1 to 10	2002-440	25

Delta jumper; insulated; I_N = I_N terminal block; light gray

1-2 3-4 5-6	2002-406/020-000	25

Star point jumper; insulated; I_N = I_N terminal block; light gray

1-3-5	2002-405/011-000	25

Staggered jumper; insulated; I_N 25 A; light gray

2-way	2002-472	25
3-way	2002-473	25
4-way	2002-474	25
5-way	2002-475	25
6-way	2002-476	25
7-way	2002-477	25
8-way	2002-478	25
9-way	2002-479	25
10-way	2002-480	25
11-way	2002-481	25
12-way	2002-482	25

Customized staggered jumper; insulated; with contact lugs broken off at the factory and circuit printing; I_N 25 A; light gray

1-3	2002-473/011-000	25
1-3-5	2002-475/011-000	25
1-3-5-7	2002-477/011-000	25
1-3-5-7-9	2002-479/011-000	25
1-3-5-7-9-11	2002-481/011-000	25

Adjacent jumper for continuous commoning; insulated; I_N 25 A, light gray

2-way	2002-400	25

Adjacent jumper for continuous commoning; insulated; I_N 25 A; 1 to 3

light gray	2002-423	25
red	2002-423/000-005	25
blue	2002-423/000-006	25

Modular connector; snaps together; for jumper contact slot

gray	2002-511	100 (25)

Spacer module; snaps together; bridges commoned terminal blocks

gray	2002-549	100 (25)

End plate; for modular connector; 1.5 mm thick

gray	2002-541	100 (25)

❶ Conductor range: 0.25 … 4 mm² “s+f-st”;
Push-in termination: 1 … 4 mm² “s” and 1 … 2.5 mm² “insulated ferrules, 12 mm”
Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 400 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

❸ Terminal blocks with an Ex mark are suitable for Ex ec IIc applications.
(see Section 14)

Please observe the application notes:
Jumpers, from page 152
Testing accessories, from page 146
Marking, from page 588

Approvals and corresponding ratings, visit www.wago.com

Disconnect/test terminal block with pivoting knife disconnect – testing with voltage tester.

Accessories; 2002 Series

Appropriate marking systems:
WMB/WMB Inline/Marking strips

L-type test plug module; snaps together

gray	**2002-611**	100 (25)

L-type spacer module; snaps together; bridges commoned terminal blocks

gray	**2002-649**	100 (25)

End plate; for modular test plug module; 1.5 mm thick

gray	**2002-641**	100 (25)

Test plug adapter; for 4 mm Ø test plug

gray	**2009-174**	100 (25)

Banana plug; for 4 mm socket diameter; color mixed; 10 x orange, white, black, blue, yellow; max. 42 V

	215-111	50

Testing tap; for max. 2.5 mm²

gray	**2009-182**	100 (25)

WMB Inline, plain; 1,500 WMB markers (5 mm)/reel; 5 … 5.2 mm stretchable

white	**2009-115**	1

Marking strip; plain; 11 mm wide; 50 m reel

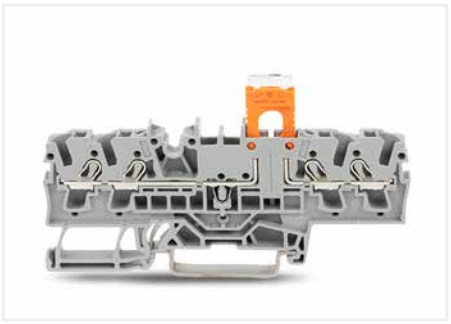
white	**2009-110**	1

WMB marking card; white; 10 strips with 10 markers/card; 5 … 5.2 mm stretchable

plain	**793-5501**	5

Double-deck marker carrier; pivoting

gray	**2002-121**	50 (25)



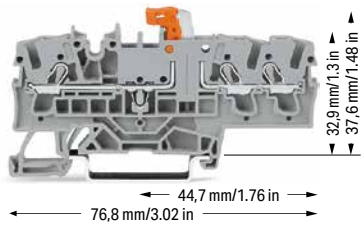
Carrier terminal block (2002-1861) with disconnect plug (2002-401) in parked position

Carrier terminal block (2002-1861) with disconnect plug (2002-401) in operating position

Disconnect/Test Terminal Block and Through/Ground Terminal Block TOPJOB® S
2.5 (4) mm²; 2002 Series

1

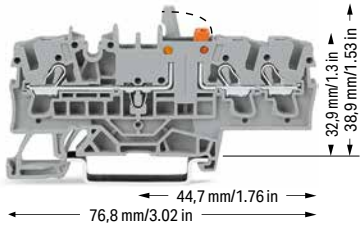
Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
400 V/6 kV/3 ❷	300 V, 15 A
I_N 16 A	300 V, 10 A
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



3-conductor disconnect/test terminal block; with test point; orange disconnect link

Color	Item No.	Pack. Unit
gray	2002-1771 ❸	50
blue	2002-1774 ❸	50
orange	2002-1772 ❸	50

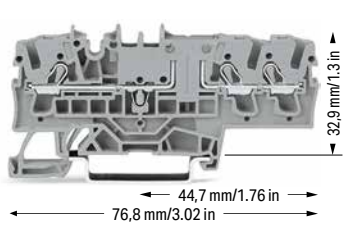
Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
400 V/6 kV/3 ❷	300 V, 15 A
I_N 16 A	
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



3-conductor disconnect/test terminal block; with mechanical interlock; with test point; orange disconnect link

Color	Item No.	Pack. Unit
gray	2002-1771/401-000 ❸	50
blue	2002-1774/401-000 ❸	50
orange	2002-1772/401-000 ❸	50

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
400 V/6 kV/3 ❷	300 V, 15 A
I_N 16 A	300 V, 10 A
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



3-conductor through terminal block; with test point; same profile as 3-conductor disconnect terminal block

Color	Item No.	Pack. Unit
gray	2002-1701 ❸	50
blue	2002-1704 ❸	50
orange	2002-1702 ❸	50

3-conductor ground terminal block

green-yellow	2002-1707 ❸	50

Other terminal blocks with the same profile:

Carrier	2002-1761	Page 114
Fuse	2002-1781	Page 88

Accessories; 2002 Series

Appropriate marking systems: WMB/WMB Inline/Marking strips

End and intermediate plate; 1 mm thick

orange	2002-1792	100 (25)
gray	2002-1791	100 (25)

Insulation stop; 5 pcs/strip; 0.25 … 0.5 mm²

light gray	2002-171	200 (25)

Insulation stop; 5 pcs/strip; 0.75 … 1 mm²

dark gray	2002-172	200 (25)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks

yellow	2002-115	100 (25)

Push-in type jumper bar; insulated; I_N 25 A; light gray

2-way	2002-402	25
3-way	2002-403	25
4-way	2002-404	25
5-way	2002-405	25
6-way	2002-406	25
7-way	2002-407	25
8-way	2002-408	25
9-way	2002-409	25
10-way	2002-410	25

Push-in type wire jumper; insulated; 1.5 mm² conductor cross-section; I_N 18 A

L = 60 mm	2009-412	100 (10)
L = 110 mm	2009-414	100 (10)
L = 250 mm	2009-416	100 (10)

Push-in type jumper bar; insulated; I_N 25 A; light gray

1 to 3	2002-433	25
1 to 4	2002-434	25
1 to 5	2002-435	25
1 to 6	2002-436	25
1 to 7	2002-437	25
1 to 8	2002-438	25
1 to 9	2002-439	25
1 to 10	2002-440	25

Delta jumper; insulated; I_N = I_N terminal block; light gray

1-2 3-4 5-6	2002-406/020-000	25

Star point jumper; insulated; I_N = I_N terminal block; light gray

1-3-5	2002-405/011-000	25

Staggered jumper; insulated; I_N 25 A; light gray

2-way	2002-472	25
3-way	2002-473	25
4-way	2002-474	25
5-way	2002-475	25
6-way	2002-476	25
7-way	2002-477	25
8-way	2002-478	25
9-way	2002-479	25
10-way	2002-480	25
11-way	2002-481	25
12-way	2002-482	25

Customized staggered jumper; insulated; with contact lugs broken off at the factory and circuit printing; I_N 25 A; light gray

1-3	2002-473/011-000	25
1-3-5	2002-475/011-000	25
1-3-5-7	2002-477/011-000	25
1-3-5-7-9	2002-479/011-000	25
1-3-5-7-9-11	2002-481/011-000	25

Adjacent jumper for continuous commoning; insulated; I_N 25 A, light gray

2-way	2002-400	25

Adjacent jumper for continuous commoning; insulated; I_N 25 A; 1 to 3

light gray	2002-423	25
red	2002-423/000-005	25
blue	2002-423/000-006	25

Modular connector; snaps together; for jumper contact slot

gray	2002-511	100 (25)

End plate; for modular connector; 1.5 mm thick

gray	2002-541	100 (25)

❶ Conductor range: 0.25 … 4 mm² “s+f-st”;
Push-in termination: 1 … 4 mm² “s” and 1 … 2.5 mm² “insulated ferrules, 12 mm”
Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 400 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

❸ Terminal blocks with an Ex mark are suitable for Ex ec IIc applications.
(see Section 14)

Please observe the application notes:
Jumpers, from page 152
Testing accessories, from page 146
Marking, from page 588

Approvals and corresponding ratings, visit www.wago.com

Accessories; 2002 Series

Appropriate marking systems:
WMB/WMB Inline/Marking strips

L-type test plug module; snaps together

gray | **2002-611** | 100 (25)

L-type spacer module; snaps together; bridges commoned terminal blocks

gray | **2002-649** | 100 (25)

End plate; for modular test plug module; 1.5 mm thick

gray | **2002-641** | 100 (25)

Test plug adapter; for 4 mm Ø test plug

gray | **2009-174** | 100 (25)

Banana plug; for 4 mm socket diameter; color mixed; 10 x orange, white, black, blue, yellow; max. 42 V

215-111 | 50

Testing tap; for max. 2.5 mm²

gray | **2009-182** | 100 (25)

WMB Inline, plain; 1,500 WMB markers (5 mm)/reel; 5 … 5.2 mm stretchable

white | **2009-115** | 1

Marking strip; plain; 11 mm wide; 50 m reel

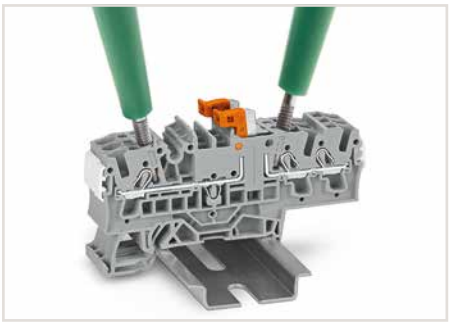
white | **2009-110** | 1

WMB marking card; white; 10 strips with 10 markers/card; 5 … 5.2 mm stretchable

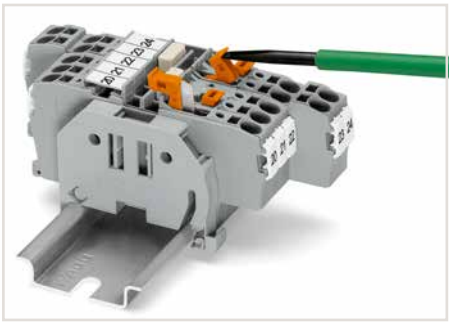
plain | **793-5501** | 5

Double-deck marker carrier; pivoting

gray | **2002-121** | 50 (25)



Disconnect/test terminal block with pivoting knife disconnect – testing with voltage tester.



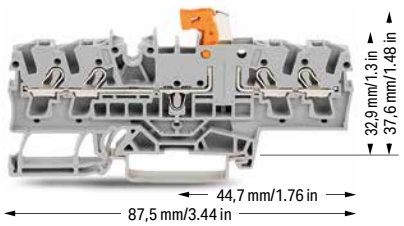
Disconnect/test terminal block with pivoting knife disconnect – opening a knife disconnect.

Disconnect/test terminal block with pivoting knife disconnect – closing the knife disconnect.

Disconnect/Test Terminal Block and Through Terminal Block of Same Profile TOPJOB® S
2.5 (4) mm²; 2002 Series

1

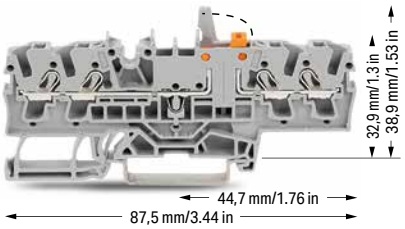
Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
400 V/6 kV/3 ❷	300 V, 15 A
I_N 16 A	300 V, 10 A
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



4-conductor disconnect/test terminal block; with test point; orange disconnect link

Color	Item No.	Pack. Unit
gray	2002-1871 ❸	50
blue	2002-1874 ❸	50
orange	2002-1872 ❸	50

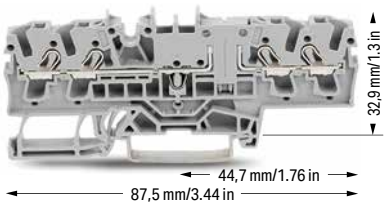
Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
400 V/6 kV/3 ❷	300 V, 15 A
I_N 16 A	
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



4-conductor disconnect/test terminal block; with mechanical interlock; with test point; orange disconnect link

Color	Item No.	Pack. Unit
gray	2002-1871/401-000 ❸	50
blue	2002-1874/401-000 ❸	50
orange	2002-1872/401-000 ❸	50

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
400 V/6 kV/3 ❷	300 V, 15 A
I_N 16 A	300 V, 10 A
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



4-conductor through terminal block; with test point; same profile as 4-conductor disconnect terminal block

Color	Item No.	Pack. Unit
gray	2002-1801 ❸	50
blue	2002-1804 ❸	50
orange	2002-1802 ❸	50

Other terminal blocks with the same profile:		
Carrier	2002-1861	Page 114
Fuse	2002-1881	Page 88

Accessories; 2002 Series

Appropriate marking systems: WMB/WMB Inline/Marking strips

End and intermediate plate; 1 mm thick

orange	2002-1892	100 (25)
gray	2002-1891	100 (25)

Insulation stop; 5 pcs/strip; 0.25 … 0.5 mm²

light gray	2002-171	200 (25)

Insulation stop; 5 pcs/strip; 0.75 … 1 mm²

dark gray	2002-172	200 (25)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks

yellow	2002-115	100 (25)

Push-in type jumper bar; insulated; I_N 25 A; light gray

2-way	2002-402	25
3-way	2002-403	25
4-way	2002-404	25
5-way	2002-405	25
6-way	2002-406	25
7-way	2002-407	25
8-way	2002-408	25
9-way	2002-409	25
10-way	2002-410	25

Push-in type wire jumper; insulated; 1.5 mm² conductor cross-section; I_N 18 A

L = 60 mm	2009-412	100 (10)
L = 110 mm	2009-414	100 (10)
L = 250 mm	2009-416	100 (10)

Push-in type jumper bar; insulated; I_N 25 A; light gray

1 to 3	2002-433	25
1 to 4	2002-434	25
1 to 5	2002-435	25
1 to 6	2002-436	25
1 to 7	2002-437	25
1 to 8	2002-438	25
1 to 9	2002-439	25
1 to 10	2002-440	25

Delta jumper; insulated; I_N = I_N terminal block; light gray

1-2 3-4 5-6	2002-406/020-000	25

Star point jumper; insulated; I_N = I_N terminal block; light gray

1-3-5	2002-405/011-000	25

Staggered jumper; insulated; I_N 25 A; light gray

2-way	2002-472	25
3-way	2002-473	25
4-way	2002-474	25
5-way	2002-475	25
6-way	2002-476	25
7-way	2002-477	25
8-way	2002-478	25
9-way	2002-479	25
10-way	2002-480	25
11-way	2002-481	25
12-way	2002-482	25

Customized staggered jumper; insulated; with contact lugs broken off at the factory and circuit printing; I_N 25 A; light gray

1-3	2002-473/011-000	25
1-3-5	2002-475/011-000	25
1-3-5-7	2002-477/011-000	25
1-3-5-7-9	2002-479/011-000	25
1-3-5-7-9-11	2002-481/011-000	25

Adjacent jumper for continuous commoning; insulated; I_N 25 A, light gray

2-way	2002-400	25

Adjacent jumper for continuous commoning; insulated; I_N 25 A; 1 to 3

light gray	2002-423	25
red	2002-423/000-005	25
blue	2002-423/000-006	25

Modular connector; snaps together; for jumper contact slot

gray	2002-511	100 (25)

Spacer module; snaps together; bridges commoned terminal blocks

gray	2002-549	100 (25)

End plate; for modular connector; 1.5 mm thick

gray	2002-541	100 (25)

❶ Conductor range: 0.25 … 4 mm² “s+f-st”;
Push-in termination: 1 … 4 mm² “s” and 1 … 2.5 mm² “insulated ferrules, 12 mm”
Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 400 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

❸ Terminal blocks with an Ex mark are suitable for Ex ec IIc applications.
(see Section 14)

Please observe the application notes:
Jumpers, from page 152
Testing accessories, from page 146
Marking, from page 588

Approvals and corresponding ratings, visit www.wago.com

Accessories; 2002 Series

Appropriate marking systems:
WMB/WMB Inline/Marking strips

L-type test plug module; snaps together

gray | **2002-611** | 100 (25)

L-type spacer module; snaps together; bridges commoned terminal blocks

gray | **2002-649** | 100 (25)

End plate; for modular test plug module; 1.5 mm thick

gray | **2002-641** | 100 (25)

Test plug adapter; for 4 mm Ø test plug

gray | **2009-174** | 100 (25)

Banana plug; for 4 mm socket diameter; color mixed; 10 x orange, white, black, blue, yellow; max. 42 V

215-111 | 50

Testing tap; for max. 2.5 mm²

gray | **2009-182** | 100 (25)

WMB Inline, plain; 1,500 WMB markers (5 mm)/reel; 5 … 5.2 mm stretchable

white | **2009-115** | 1

Marking strip; plain; 11 mm wide; 50 m reel

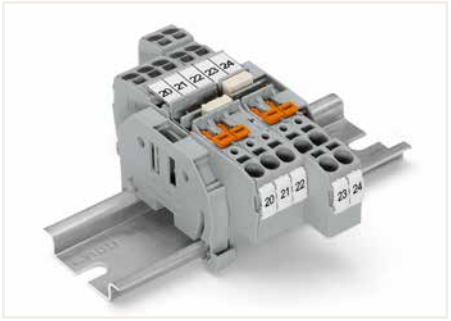
white | **2009-110** | 1

WMB marking card; white; 10 strips with 10 markers/card; 5 … 5.2 mm stretchable

plain | **793-5501** | 5

Double-deck marker carrier; pivoting

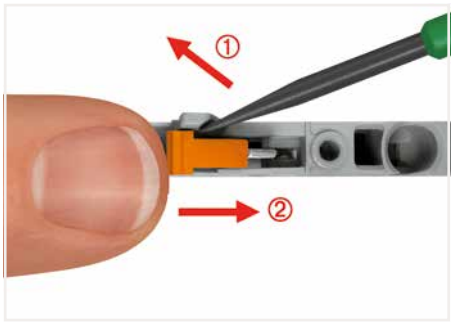
gray | **2002-121** | 50 (25)



Through Terminal Blocks and Disconnect/Test Terminal Blocks
- One center and two side marker slots for WMB markers or marking strips
- Dual jumper slots in the same location as other 2002 Series terminal blocks
- Commoning options in front of or behind the knife disconnect, depending on the power supply direction

Disconnect/test terminal block with pivoting knife disconnect and mechanical interlock – knife disconnect in open position

Disconnect/test terminal block with pivoting knife disconnect and mechanical interlock – top view

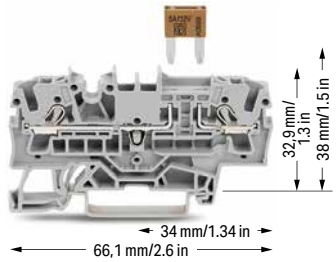


Disconnect/test terminal block with pivoting knife disconnect and mechanical interlock – closing the knife disconnect.

Fuse Terminal Block TOPJOB® S; for Mini-Automotive Blade-Style Fuses
2.5 (4) mm²; 2002 Series

1

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
400 V/6 kV/3 ❷	300 V, 10 A
I_N 10 A ❸	300 V, 10 A
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



2-conductor fuse terminal block; with test point; for mini-automotive blade-style fuses

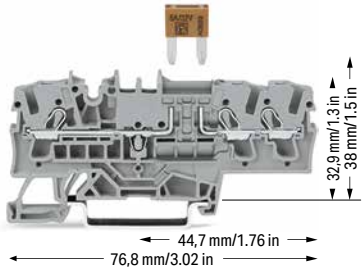
Color	Item No.	Pack. Unit
gray	2002-1681 ❹	50

Blade-style fuses are not offered by WAGO.

Other terminal blocks with the same profile:

Through	2002-1601	Page 82

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
400 V/6 kV/3 ❷	300 V, 10 A
I_N 10 A ❸	300 V, 10 A
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



3-conductor fuse terminal block; with test point; for mini-automotive blade-style fuses

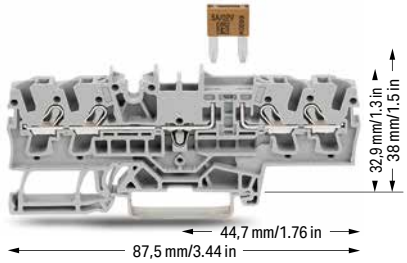
Color	Item No.	Pack. Unit
gray	2002-1781 ❹	50

Blade-style fuses are not offered by WAGO.

Other terminal blocks with the same profile:

Through	2002-1701	Page 84

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
400 V/6 kV/3 ❷	300 V, 10 A
I_N 10 A ❸	300 V, 10 A
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



4-conductor fuse terminal block; with test point; for mini-automotive blade-style fuses

Color	Item No.	Pack. Unit
gray	2002-1881 ❹	100

Blade-style fuses are not offered by WAGO.

Other terminal blocks with the same profile:

Through	2002-1801	Page 86

Accessories; item-specific

End and intermediate plate; 1 mm thick

orange	2002-1692	100 (25)
gray	2002-1691	100 (25)

End and intermediate plate; 1 mm thick

orange	2002-1792	100 (25)
gray	2002-1791	100 (25)

End and intermediate plate; 1 mm thick

orange	2002-1892	100 (25)
gray	2002-1891	100 (25)

Accessories; 2002 Series

Appropriate marking systems: WMB/WMB Inline/Marking strips

Insulation stop; 5 pcs/strip; 0.25 … 0.5 mm²

light gray	2002-171	200 (25)

Insulation stop; 5 pcs/strip; 0.75 … 1 mm²

dark gray	2002-172	200 (25)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks

yellow	2002-115	100 (25)

Push-in type jumper bar; insulated; I_N 25 A; light gray

2-way	2002-402	25
3-way	2002-403	25
4-way	2002-404	25
5-way	2002-405	25
6-way	2002-406	25
7-way	2002-407	25
8-way	2002-408	25
9-way	2002-409	25
10-way	2002-410	25

Push-in type wire jumper; insulated; 1.5 mm² conductor cross-section; I_N 18 A

L = 60 mm	2009-412	100 (10)
L = 110 mm	2009-414	100 (10)
L = 250 mm	2009-416	100 (10)

Push-in type jumper bar; insulated; I_N 25 A; light gray

1 to 3	2002-433	25
1 to 4	2002-434	25
1 to 5	2002-435	25
1 to 6	2002-436	25
1 to 7	2002-437	25
1 to 8	2002-438	25
1 to 9	2002-439	25
1 to 10	2002-440	25

Delta jumper; insulated; I_N = I_N terminal block; light gray

1-2 3-4 5-6	2002-406/020-000	25

Star point jumper; insulated; I_N = I_N terminal block; light gray

1-3-5	2002-405/011-000	25

Staggered jumper; insulated; I_N 25 A; light gray

2-way	2002-472	25
3-way	2002-473	25
4-way	2002-474	25
5-way	2002-475	25
6-way	2002-476	25
7-way	2002-477	25
8-way	2002-478	25
9-way	2002-479	25
10-way	2002-480	25
11-way	2002-481	25
12-way	2002-482	25

Customized staggered jumper; insulated; with contact lugs broken off at the factory and circuit printing; I_N 25 A; light gray

1-3	2002-473/011-000	25
1-3-5	2002-475/011-000	25
1-3-5-7	2002-477/011-000	25
1-3-5-7-9	2002-479/011-000	25
1-3-5-7-9-11	2002-481/011-000	25

Adjacent jumper for continuous commoning; insulated; I_N 25 A, light gray

2-way	2002-400	25

Adjacent jumper for continuous commoning; insulated; I_N 25 A; 1 to 3

light gray	2002-423	25
red	2002-423/000-005	25
blue	2002-423/000-006	25

Modular connector; snaps together; for jumper contact slot

gray	2002-511	100 (25)

Spacer module; snaps together; bridges commoned terminal blocks

gray	2002-549	100 (25)

❶ Conductor range: 0.25 … 4 mm² “s+f-st”;
Push-in termination: 1 … 4 mm² “s” and 1 … 2.5 mm² “insulated ferrules, 12 mm”
Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 400 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

❸ Observe touch-proof protection for 42 V and higher voltages!
- 10 A (individual arrangement)
- 5 A (block arrangement)

❹ Terminal blocks with an Ex mark are suitable for Ex ec IIc applications.
(see Section 14)

Please observe the application notes:
Jumpers, from page 152
Testing accessories, from page 146
Marking, from page 588

Approvals and corresponding ratings, visit www.wago.com

Accessories; 2002 Series

Appropriate marking systems:
WMB/WMB Inline/Marking strips

L-type test plug module; snaps together

gray | **2002-611** | 100 (25)

L-type spacer module; snaps together; bridges commoned terminal blocks

gray | **2002-649** | 100 (25)

Test plug adapter; for 4 mm Ø test plug

gray | **2009-174** | 100 (25)

Banana plug; for 4 mm socket diameter; color mixed; 10 x orange, white, black, blue, yellow; max. 42 V

215-111 | 50

Testing tap; for max. 2.5 mm²

gray | **2009-182** | 100 (25)

WMB Inline, plain; 1,500 WMB markers (5 mm)/reel; 5 … 5.2 mm stretchable

white | **2009-115** | 1

Marking strip; plain; 11 mm wide; 50 m reel

white | **2009-110** | 1

WMB marking card; white; 10 strips with 10 markers/card; 5 … 5.2 mm stretchable

plain | **793-5501** | 5

Double-deck marker carrier; pivoting

gray | **2002-121** | 50 (25)

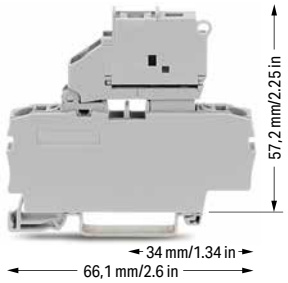
Selecting the correct fuse cartridge is important for product safety within applications, as well as for fuse cartridge service life and reliability. Fuse cartridges can operate perfectly as protection (break-off point) if they are properly selected and used according to manufacturer specifications.
Nominal current ratings for fuse cartridges are defined differently in international standards.
This is why the recommended continuous current-carrying capacity of the fuses is a max. 80% of their nominal current according to DIN 72581/Part 3 (for a surrounding air temperature of 23°C).
With regard to product safety, fuse cartridges must generally be tested both under normal and faulty operating conditions within your application.

Fused Disconnect Terminal Block with Pivoting Fuse Holder TOPJOB® S; for 5 x 20 mm Glass Cartridge Fuse

2.5 (4) mm²; 2002 Series

1

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
250 V/6 kV/3 ❷	250 V, 6.3 A
I_N 6.3 A	250 V, 6,3 A
Terminal block width: 6.2 mm / 0.244 inch	
10 … 12 mm / 0.39 … 0.47 inch	



2-conductor fused disconnect terminal block with a pivoting fuse holder; for 5 x 20 mm glass cartridge fuse; without blown fuse indication
Electrical ratings are given by the fuse.

	Item No.	Pack. Unit
gray	2002-1611 ❸	50

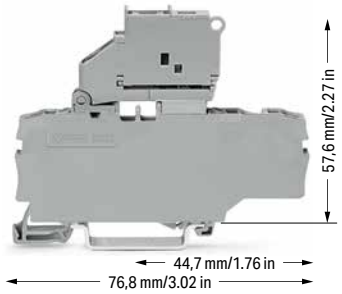
2-conductor fused disconnect terminal block with a pivoting fuse holder; for 5 x 20 mm glass cartridge fuse; with blown fuse indication by LED; gray
Electrical ratings are given by the fuse and blown fuse indication. Leakage current in case of a blown fuse: LED 2 mA

12 … 30 V	2002-1611/1000-541 ❸	50
30 … 65 V	2002-1611/1000-542 ❸	50
230 V	2002-1611/1000-836 ❸	50
120 V	2002-1611/1000-867 ❸	50

Other terminal blocks with the same profile:

Through	2002-1601	Page 82

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
250 V/6 kV/3 ❷	250 V, 6.3 A
I_N 6.3 A	250 V, 6,3 A
Terminal block width: 6.2 mm / 0.244 inch	
10 … 12 mm / 0.39 … 0.47 inch	



3-conductor fused disconnect terminal block with a pivoting fuse holder; for 5 x 20 mm glass cartridge fuse; without blown fuse indication
Electrical ratings are given by the fuse.

	Item No.	Pack. Unit
gray	2002-1711 ❸	50

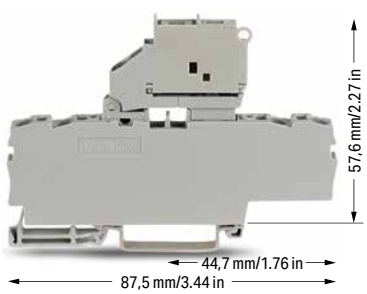
3-conductor fused disconnect terminal block with a pivoting fuse holder; for 5 x 20 mm glass cartridge fuse; with blown fuse indication by LED; gray
Electrical ratings are given by the fuse and blown fuse indication. Leakage current in case of a blown fuse: LED 2 mA

12 … 30 V	2002-1711/1000-541 ❸	50
30 … 65 V	2002-1711/1000-542 ❸	50
230 V	2002-1711/1000-836 ❸	50
120 V	2002-1711/1000-867 ❸	50

Other terminal blocks with the same profile:

Through	2002-1701	Page 84

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
250 V/6 kV/3 ❷	250 V, 6.3 A
I_N 6.3 A	250 V, 6,3 A
Terminal block width: 6.2 mm / 0.244 inch	
10 … 12 mm / 0.39 … 0.47 inch	



4-conductor fused disconnect terminal block with a pivoting fuse holder; for 5 x 20 mm glass cartridge fuse; without blown fuse indication
Electrical ratings are given by the fuse.

	Item No.	Pack. Unit
gray	2002-1811 ❸	100

4-conductor fused disconnect terminal block with a pivoting fuse holder; for 5 x 20 mm glass cartridge fuse; with blown fuse indication by LED; gray
Electrical ratings are given by the fuse and blown fuse indication. Leakage current in case of a blown fuse: LED 2 mA

12 … 30 V	2002-1811/1000-541 ❸	50
30 … 65 V	2002-1811/1000-542 ❸	50
230 V	2002-1811/1000-836 ❸	50
120 V	2002-1811/1000-867 ❸	50

Other terminal blocks with the same profile:

Through	2002-1801	Page 86

Accessories; 2002 Series

Appropriate marking systems: WMB/WMB Inline/Marking strips

End plate for fuse terminal blocks; 2 mm thick

orange	2002-992	100 (25)
gray	2002-991	100 (25)

Insulation stop; 5 pcs/strip; 0.25 … 0.5 mm²

light gray	2002-171	200 (25)

Insulation stop; 5 pcs/strip; 0.75 … 1 mm²

dark gray	2002-172	200 (25)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks

yellow	2002-115	100 (25)

Push-in type wire jumper; insulated; 1.5 mm² conductor cross-section; I_N 18 A

L = 60 mm	2009-412	100 (10)
L = 110 mm	2009-414	100 (10)
L = 250 mm	2009-416	100 (10)

Push-in type jumper bar; insulated; I_N 32 A; light gray

2-way	2004-402	25
3-way	2004-403	25
4-way	2004-404	25
5-way	2004-405	25
6-way	2004-406	25
7-way	2004-407	25
8-way	2004-408	25
9-way	2004-409	25
10-way	2004-410	25

Push-in type jumper bar; insulated; I_N 32 A; light gray

1 to 3	2004-433	25
1 to 4	2004-434	25
1 to 5	2004-435	25
1 to 6	2004-436	25
1 to 7	2004-437	25
1 to 8	2004-438	25
1 to 9	2004-439	25
1 to 10	2004-440	25

❶ Conductor range: 0.25 … 4 mm² “s+f-st”;
Push-in termination: 1 … 4 mm² “s” and 1 … 2.5 mm² “insulated ferrules, 12 mm”
Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 250 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

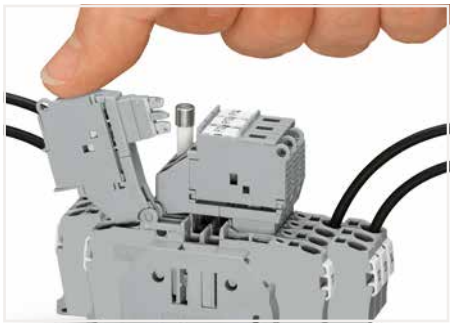
❸ Terminal blocks with an Ex mark are suitable for Ex ec IIc applications.
(see Section 14)

Please observe the application notes:
Jumpers, from page 156
Marking, from page 588

A protective warning marker and an insulation stop must be applied individually. Due to the 6.2 mm width of fused disconnect terminal blocks with end plates, 2004 Series Push-In Type Jumper Bars must be used.

Approvals and corresponding ratings, visit www.wago.com

Fuse terminal blocks with a width of 6.2 mm can be assembled adjacently. If there is no adjacent fuse terminal block at the end of the assembly, an end plate must be used.



Fused disconnect terminal block with a pivoting fuse holder – pivoting the fuse holder into the locked open position.

Glass cartridge fuse 5 x 20

Series Item No.	Overload and short circuit protection		Short circuit protection only	
	Individual argmt.	Group argmt.	Individual argmt.	Group argmt.
	Fuse terminal blocks			
2002-1611 2002-1711 2002-1811	1.6 W	1.6 W	2.5 W	2.5 W
2002-1611/….-…. 2002-1711/….-…. 2002-1811/….-….	1.6 W	1.6 W	2.5 W	2.5 W

When selecting glass cartridge fuses, make sure that the maximum power loss listed below is not exceeded. The power loss is determined according to IEC or EN 60947-7-3/VDE 0611-6 at 23°C. The temperature rise of the terminal blocks must be checked according to their application and mounting. Higher ambient temperatures represent an additional impact on fuse cartridges. Therefore, in such applications, the rated current must be reduced if necessary. More details are available from the manufacturers.

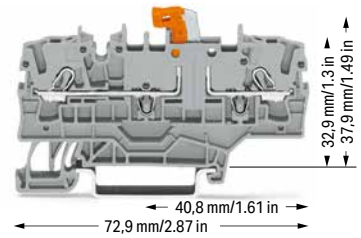
Fused disconnect terminal block with a pivoting fuse holder – fuse replacement: Open the cover to replace the fuse.

Disconnect/Test Terminal Block and Through/Ground Terminal Block TOPJOB® S; with Additional Jumper Slot

2.5 (4) mm²; 2002 Series

1

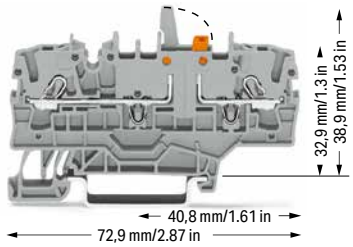
Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
400 V/6 kV/3 ❷	300 V, 15 A
I_N 16 A	
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



2-conductor disconnect/test terminal block; with test point; orange disconnect link; with additional jumper slot

Color	Item No.	Pack. Unit
gray	2002-1971 ❸	50
blue	2002-1974 ❸	50
orange	2002-1972 ❸	50

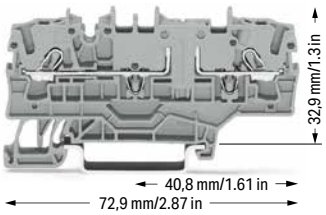
Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
400 V/6 kV/3 ❷	300 V, 15 A
I_N 16 A	
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



2-conductor disconnect/test terminal block; with mechanical interlock; with test point; orange disconnect link; with additional jumper slot

Color	Item No.	Pack. Unit
gray	2002-1971/401-000 ❸	50
blue	2002-1974/401-000 ❸	50
orange	2002-1972/401-000 ❸	50

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
400 V/6 kV/3 ❷	300 V, 15 A
I_N 16 A	
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



2-conductor through terminal block; with test point; with additional jumper slot; same profile as 2-conductor disconnect terminal block

Color	Item No.	Pack. Unit
gray	2002-1901 ❸	50
blue	2002-1904 ❸	50
orange	2002-1902 ❸	50

2-conductor ground terminal block

green-yellow	2002-1907 ❸	50

Other terminal blocks with the same profile:

Carrier	2002-1961	Page 114
Fuse	2002-1981	Page 94

Accessories; 2002 Series

Appropriate marking systems: WMB/WMB Inline/Marking strips

End and intermediate plate; 1 mm thick

orange	2002-1992	100 (25)
gray	2002-1991	100 (25)

Insulation stop; 5 pcs/strip; 0.25 … 0.5 mm²

light gray	2002-171	200 (25)

Insulation stop; 5 pcs/strip; 0.75 … 1 mm²

dark gray	2002-172	200 (25)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks

yellow	2002-115	100 (25)

Push-in type jumper bar; insulated; I_N 25 A; light gray

2-way	2002-402	25
3-way	2002-403	25
4-way	2002-404	25
5-way	2002-405	25
6-way	2002-406	25
7-way	2002-407	25
8-way	2002-408	25
9-way	2002-409	25
10-way	2002-410	25

Push-in type wire jumper; insulated; 1.5 mm² conductor cross-section; I_N 18 A

L = 60 mm	2009-412	100 (10)
L = 110 mm	2009-414	100 (10)
L = 250 mm	2009-416	100 (10)

Push-in type jumper bar; insulated; I_N 25 A; light gray

1 to 3	2002-433	25
1 to 4	2002-434	25
1 to 5	2002-435	25
1 to 6	2002-436	25
1 to 7	2002-437	25
1 to 8	2002-438	25
1 to 9	2002-439	25
1 to 10	2002-440	25

Delta jumper; insulated; I_N = I_N terminal block; light gray

1-2 3-4 5-6	2002-406/020-000	25

Star point jumper; insulated; I_N = I_N terminal block; light gray

1-3-5	2002-405/011-000	25

Staggered jumper; insulated; I_N 25 A; light gray

2-way	2002-472	25
3-way	2002-473	25
4-way	2002-474	25
5-way	2002-475	25
6-way	2002-476	25
7-way	2002-477	25
8-way	2002-478	25
9-way	2002-479	25
10-way	2002-480	25
11-way	2002-481	25
12-way	2002-482	25

Customized staggered jumper; insulated; with contact lugs broken off at the factory and circuit printing; I_N 25 A; light gray

1-3	2002-473/011-000	25
1-3-5	2002-475/011-000	25
1-3-5-7	2002-477/011-000	25
1-3-5-7-9	2002-479/011-000	25
1-3-5-7-9-11	2002-481/011-000	25

Adjacent jumper for continuous commoning; insulated; I_N 25 A, light gray

2-way	2002-400	25

Adjacent jumper for continuous commoning; insulated; I_N 25 A; 1 to 3

light gray	2002-423	25
red	2002-423/000-005	25
blue	2002-423/000-006	25

Modular connector; snaps together; for jumper contact slot

gray	2002-511	100 (25)

End plate; for modular connector; 1.5 mm thick

gray	2002-541	100 (25)

❶ Conductor range: 0.25 … 4 mm² “s+f-st”;
Push-in termination: 1 … 4 mm² “s” and 1 … 2.5 mm² “insulated ferrules, 12 mm”
Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 400 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

❸ Terminal blocks with an Ex mark are suitable for Ex ec IIc applications.
(see Section 14)

Please observe the application notes:
Jumpers, from page 152
Testing accessories, from page 146
Marking, from page 588

Approvals and corresponding ratings, visit www.wago.com

Accessories; 2002 Series

Appropriate marking systems:
WMB/WMB Inline/Marking strips

L-type test plug module; snaps together

gray | **2002-611** | 100 (25)

L-type spacer module; snaps together; bridges commoned terminal blocks

gray | **2002-649** | 100 (25)

End plate; for modular test plug module; 1.5 mm thick

gray | **2002-641** | 100 (25)

Test plug adapter; for 4 mm Ø test plug

gray | **2009-174** | 100 (25)

Banana plug; for 4 mm socket diameter; color mixed; 10 x orange, white, black, blue, yellow; max. 42 V

215-111 | 50

Testing tap; for max. 2.5 mm²

gray | **2009-182** | 100 (25)

WMB Inline, plain; 1,500 WMB markers (5 mm)/reel; 5 … 5.2 mm stretchable

white | **2009-115** | 1

Marking strip; plain; 11 mm wide; 50 m reel

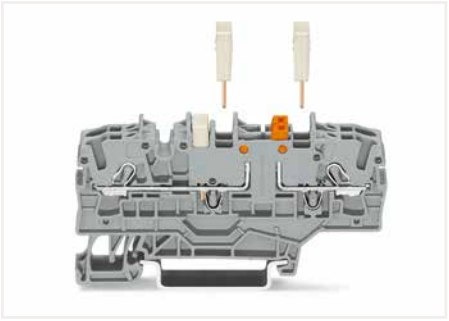
white | **2009-110** | 1

WMB marking card; white; 10 strips with 10 markers/card; 5 … 5.2 mm stretchable

plain | **793-5501** | 5

Double-deck marker carrier; pivoting

gray | **2002-121** | 50 (25)

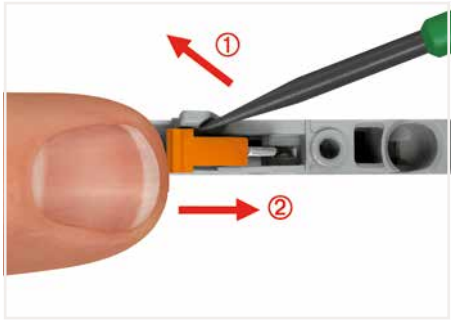


Three jumper slots available

2-conductor carrier terminal block with additional jumper slot (2002-1961)

Disconnect/test terminal block with pivoting knife disconnect and mechanical interlock – knife disconnect in open position

Disconnect/test terminal block with pivoting knife disconnect and mechanical interlock – top view



Disconnect/test terminal block with pivoting knife disconnect and mechanical interlock – closing the knife disconnect.

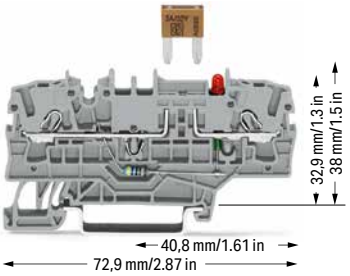
Fuse Terminal Block TOPJOB® S; for Mini-Automotive Blade-Style Fuses; with Additional Jumper Slot

2.5 (4) mm²; 2002 Series

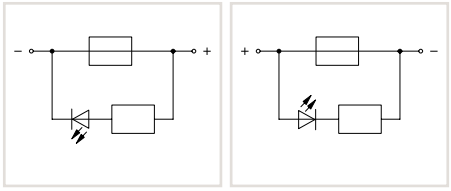
1

Technical Data

0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
400 V/6 kV/3 ❷	12 V, 10 A
I_N 10 A ❸	
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



2002-1981/1000-429 2002-1981/1000-449

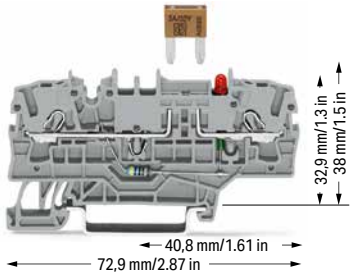


2-conductor fuse terminal block; with test point; for mini-automotive blade-style fuses; 12 V; with blown fuse indication by LED; LED power consumption: 4.8 mA Electrical ratings are given by the fuse and blown fuse indication. Blade-style fuses: Observe touch-proof protection for 42 V and higher voltages!

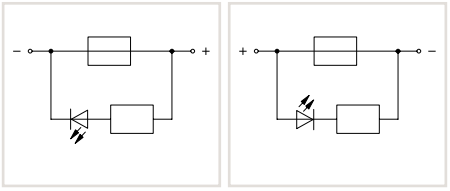
Color	Item No.	Pack. Unit
gray	2002-1981/1000-429 ❹	50
gray	2002-1981/1000-449 ❹	50

Technical Data

0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
400 V/6 kV/3 ❷	24 V, 10 A
I_N 10 A ❸	
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



2002-1981/1000-413 2002-1981/1000-434

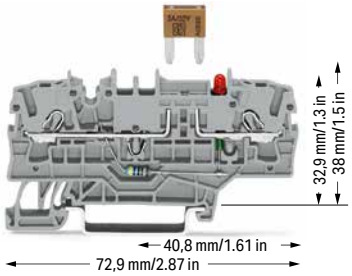


2-conductor fuse terminal block; with test point; for mini-automotive blade-style fuses; 24 V; with blown fuse indication by LED; LED power consumption: 4.8 mA Electrical ratings are given by the fuse and blown fuse indication. Blade-style fuses: Observe touch-proof protection for 42 V and higher voltages!

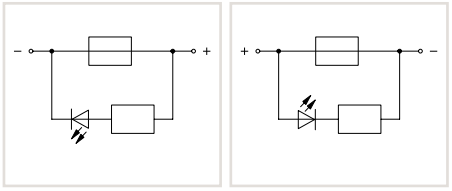
Color	Item No.	Pack. Unit
gray	2002-1981/1000-413 ❹	50
gray	2002-1981/1000-434 ❹	50

Technical Data

0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
400 V/6 kV/3 ❷	48 V, 10 A
I_N 10 A ❸	
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



2002-1981/1000-414 2002-1981/1000-435



2-conductor fuse terminal block; with test point; for mini-automotive blade-style fuses; 48 V; with blown fuse indication by LED; LED power consumption: 4.8 mA Electrical ratings are given by the fuse and blown fuse indication. Blade-style fuses: Observe touch-proof protection for 42 V and higher voltages!

Color	Item No.	Pack. Unit
gray	2002-1981/1000-414 ❹	50
gray	2002-1981/1000-435 ❹	50

Other terminal blocks with the same profile:		
Through	2002-1901	Page 92

Accessories; 2002 Series

Appropriate marking systems: WMB/WMB Inline/Marking strips

End and intermediate plate; 1 mm thick

orange	2002-1992	100 (25)
gray	2002-1991	100 (25)

Insulation stop; 5 pcs/strip; 0.25 … 0.5 mm²

light gray	2002-171	200 (25)

Insulation stop; 5 pcs/strip; 0.75 … 1 mm²

dark gray	2002-172	200 (25)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks

yellow	2002-115	100 (25)

Push-in type wire jumper; insulated; 1.5 mm² conductor cross-section; I_N 18 A

L = 60 mm	2009-412	100 (10)
L = 110 mm	2009-414	100 (10)
L = 250 mm	2009-416	100 (10)

Push-in type jumper bar; insulated; I_N 25 A; light gray

2-way	2002-402	25
3-way	2002-403	25
4-way	2002-404	25
5-way	2002-405	25
6-way	2002-406	25
7-way	2002-407	25
8-way	2002-408	25
9-way	2002-409	25
10-way	2002-410	25

Push-in type jumper bar; insulated; I_N 25 A; light gray

1 to 3	2002-433	25
1 to 4	2002-434	25
1 to 5	2002-435	25
1 to 6	2002-436	25
1 to 7	2002-437	25
1 to 8	2002-438	25
1 to 9	2002-439	25
1 to 10	2002-440	25

Staggered jumper; insulated; I_N 25 A; light gray

2-way	2002-472	25
3-way	2002-473	25
4-way	2002-474	25
5-way	2002-475	25
6-way	2002-476	25
7-way	2002-477	25
8-way	2002-478	25
9-way	2002-479	25
10-way	2002-480	25
11-way	2002-481	25
12-way	2002-482	25

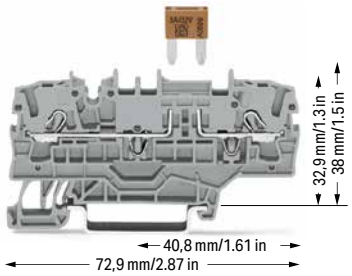
Adjacent jumper for continuous commoning; insulated; I_N 25 A, light gray

2-way	2002-400	25

Adjacent jumper for continuous commoning; insulated; I_N 25 A; 1 to 3

light gray	2002-423	25
red	2002-423/000-005	25
blue	2002-423/000-006	25

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
400 V/6 kV/3 ❷	250 V, 10 A
I_N 10 A ❸	
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



❶ Conductor range: 0.25 … 4 mm² “s+f-st”;
Push-in termination: 1 … 4 mm² “s” and 1 … 2.5 mm² “insulated ferrules, 12 mm”
Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 400 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

❸ Observe touch-proof protection for 42 V and higher voltages!
10 A (individual arrangement)
5 A (block arrangement)

❹ Terminal blocks with an Ex mark are suitable for Ex ec IIc applications.
(see Section 14)

Blade-style fuses are not offered by WAGO.

Please observe the application notes:
Jumpers, from page 152
Testing accessories, from page 146
Marking, from page 588

Approvals and corresponding ratings, visit www.wago.com

Selecting the correct fuse cartridge is important for product safety within applications, as well as for fuse cartridge service life and reliability. Fuse cartridges can operate perfectly as protection (break-off point) if they are properly selected and used according to manufacturer specifications.
Nominal current ratings for fuse cartridges are defined differently in international standards.
This is why the recommended continuous current-carrying capacity of the fuses is a max. 80% of their nominal current according to DIN 72581/Part 3 (for a surrounding air temperature of 23°C).
With regard to product safety, fuse cartridges must generally be tested both under normal and faulty operating conditions within your application.

2-conductor fuse terminal block; with test point; for mini-automotive blade-style fuses; without blown fuse indication; with additional jumper slot
Electrical ratings are given by the fuse. Blade-style fuses: Observe touch-proof protection for 42 V and higher voltages!

Color	Item No.	Pack. Unit
gray	2002-1981 ❹	50

WMB Inline, plain; 1,500 WMB markers (5 mm)/reel; 5 … 5.2 mm stretchable

white	2009-115	1

Marking strip; plain; 11 mm wide; 50 m reel

white	2009-110	1

WMB marking card; white; 10 strips with 10 markers/card; 5 … 5.2 mm stretchable

plain	793-5501	5

Double-deck marker carrier; pivoting

gray	2002-121	50 (25)

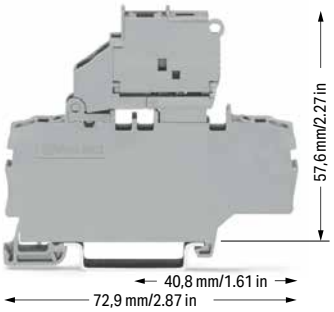
PUSH-IN CAGE CLAMP®

Fused Disconnect Terminal Block with Pivoting Fuse Holder TOPJOB® S; with Additional Jumper Slot; for 5 x 20 mm Glass Cartridge Fuse

2.5 (4) mm²; 2002 Series

1

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
250 V/6 kV/3 ❷	600 V, 6.3 A
I_N 6.3 A	
Terminal block width: 6.2 mm / 0.244 inch	
10 … 12 mm / 0.39 … 0.47 inch	



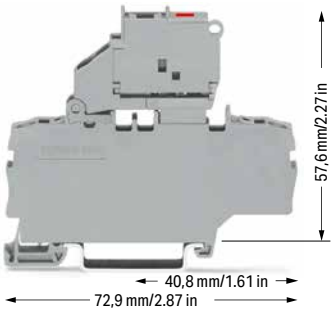
2-conductor fused disconnect terminal block with a pivoting fuse holder; with additional jumper slot; for 5 x 20 mm glass cartridge fuse; without blown fuse indication
Electrical ratings are given by the fuse.

Color	Item No.	Pack. Unit
gray	2002-1911 ❸	50

Other terminal blocks with the same profile:

Through	2002-1901	Page 92

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
250 V/6 kV/3 ❷	30 V, 6.3 A
I_N 6.3 A	
Terminal block width: 6.2 mm / 0.244 inch	
10 … 12 mm / 0.39 … 0.47 inch	



2-conductor fused disconnect terminal block with a pivoting fuse holder; with additional jumper slot; for 5 x 20 mm glass cartridge fuse; with blown fuse indication by LED; gray
Electrical ratings are given by the fuse and blown fuse indication. Leakage current in case of a blown fuse: LED 2 mA

	Item No.	Pack. Unit
12 … 30 V	2002-1911/1000-541 ❸	50
30 … 65 V	2002-1911/1000-542 ❸	50
120 V	2002-1911/1000-867 ❸	50
230 V	2002-1911/1000-836 ❸	50

Other terminal blocks with the same profile:

Through	2002-1901	Page 92

❶ Conductor range: 0.25 … 4 mm² "s+f-st"; Push-in termination: 1 … 4 mm² "s" and 1 … 2.5 mm² "insulated ferrules, 12 mm"
Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 250 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

❸ Terminal blocks with an Ex mark are suitable for Ex ec IIc applications.
(see Section 14)

Please observe the application notes:
Jumpers, from page 156
Marking, from page 588

A protective warning marker and an insulation stop must be applied individually. Due to the 6.2 mm width of fused disconnect terminal blocks with end plates, 2004 Series Push-In Type Jumper Bars must be used.

Approvals and corresponding ratings, visit www.wago.com

Glass cartridge fuses 5 x 20

Series Item No.	Overload and short circuit protection		Short circuit protection only	
	Individual argmt.	Group argmt.	Individual argmt.	Group argmt.
	Fuse terminal blocks			
2002-1911	1.6 W	1.6 W	2.5 W	2.5 W
2002-1911/….-….	1.6 W	1.6 W	2.5 W	2.5 W

When selecting glass cartridge fuses, make sure that the maximum power loss listed below is not exceeded. The power loss is determined according to IEC or EN 60947-7-3/VDE 0611-6 at 23°C. The temperature rise of the terminal blocks must be checked according to their application and mounting. Higher ambient temperatures represent an additional impact on fuse cartridges. Therefore, in such applications, the rated current must be reduced if necessary. More details are available from the manufacturers.

Accessories; 2002 Series

Appropriate marking systems: WMB/WMB Inline/Marking strips

End plate for fuse terminal blocks; 2 mm thick

orange	2002-992	100 (25)
gray	2002-991	100 (25)

Insulation stop; 5 pcs/strip; 0.25 … 0.5 mm²

light gray	2002-171	200 (25)

Insulation stop; 5 pcs/strip; 0.75 … 1 mm²

dark gray	2002-172	200 (25)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks

yellow	2002-115	100 (25)

Push-in type wire jumper; insulated; 1.5 mm² conductor cross-section; I_N 18 A

L = 60 mm	2009-412	100 (10)
L = 110 mm	2009-414	100 (10)
L = 250 mm	2009-416	100 (10)

Push-in type jumper bar; insulated; I_N 32 A; light gray

2-way	2004-402	25
3-way	2004-403	25
4-way	2004-404	25
5-way	2004-405	25
6-way	2004-406	25
7-way	2004-407	25
8-way	2004-408	25
9-way	2004-409	25
10-way	2004-410	25

Push-in type jumper bar; insulated; I_N 32 A; light gray

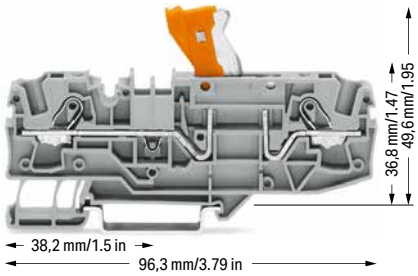
1 to 3	2004-433	25
1 to 4	2004-434	25
1 to 5	2004-435	25
1 to 6	2004-436	25
1 to 7	2004-437	25
1 to 8	2004-438	25
1 to 9	2004-439	25
1 to 10	2004-440	25

Disconnect Terminal Block and Ground Conductor Disconnect Terminal Block and Through Terminal Block of Same Profile TOPJOB® S

6 (10) mm²; 2006 Series

1

Technical Data	
0.5 … 6 (10) mm² ❶	20 … 8 AWG
800 V/8 kV/3 ❷	600 V, 15 A
I_N 30 A	600 V, 30 A
Terminal block width: 7.5 mm / 0.295 inch	
13 … 15 mm / 0.51 … 0.59 inch	



2-conductor disconnect terminal block; with test point; orange disconnect link

Color	Item No.	Pack. Unit
gray	2006-1671	25
blue	2006-1674	25

Other terminal blocks with the same profile:

Through	2006-1601	Page 98

Accessories; item-specific

Push-in type jumper bar; insulated; I_N 41 A; light gray

2-way	2006-402	25
3-way	2006-403	25
4-way	2006-404	25
5-way	2006-405	25

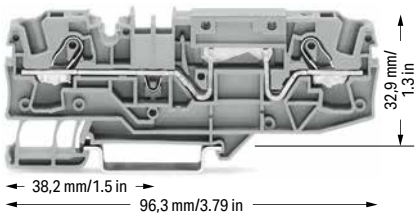
Push-in type jumper bar; insulated; I_N 41 A; light gray

1 to 3	2006-433	25
1 to 4	2006-434	25
1 to 5	2006-435	25

Star point jumper; insulated; I_N = I_N terminal block; light gray

1-3-5	2006-405/011-000	25

Technical Data	
0.5 … 6 (10) mm² ❶	20 … 8 AWG
800 V/8 kV/3 ❷	600 V, 30 A
I_N 30 A	600 V, 30 A
Terminal block width: 7.5 mm / 0.295 inch	
13 … 15 mm / 0.51 … 0.59 inch	



2-conductor through terminal block; with test point; same profile as 2-conductor disconnect terminal block

Color	Item No.	Pack. Unit
gray	2006-1601	25
blue	2006-1604	25

Other terminal blocks with the same profile:

Carrier	2006-1661	Page 116
Fuse	2006-1681	Page 100

Accessories; item-specific

Push-in type jumper bar; insulated; I_N 41 A; light gray

2-way	2006-402	25
3-way	2006-403	25
4-way	2006-404	25
5-way	2006-405	25

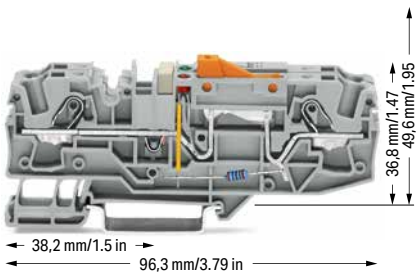
Push-in type jumper bar; insulated; I_N 41 A; light gray

1 to 3	2006-433	25
1 to 4	2006-434	25
1 to 5	2006-435	25

Star point jumper; insulated; I_N = I_N terminal block; light gray

1-3-5	2006-405/011-000	25

Technical Data	
0.5 … 6 (10) mm² ❶	20 … 8 AWG
Terminal block width: 15 mm / 0.591 inch	
13 … 15 mm / 0.51 … 0.59 inch	



Ground conductor disconnect terminal block; with test point; orange disconnect link; gray

	Item No.	Pack. Unit
24 V	2006-1671/1000-848	12
48 V	2006-1671/1000-849	12
120 V	2006-1671/1000-850	12
230 V	2006-1671/1000-851	12

Other terminal blocks with the same profile:

Through	2006-1601	Page 98

Accessories; item-specific

Push-in type jumper bar; insulated; I_N 41 A; light gray

2-way	2006-402	25

Accessories; 2006 Series

Appropriate marking systems: WMB/Marking strips

End and intermediate plate; 1 mm thick

orange	2006-1692	100 (25)
gray	2006-1691	100 (25)

Double-deck marker carrier; pivoting

gray	2002-121	50 (25)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks

yellow	2006-115	100 (25)

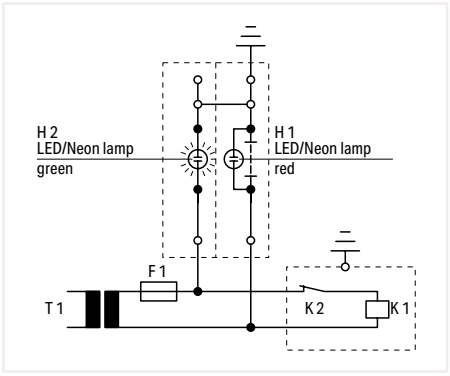
❶ Conductor range: 0.5 … 10 mm² “s+f-st”;
Push-in termination: 2.5 … 10 mm² “s” and
2.5 … 6 mm² “insulated ferrules; 12 mm”
Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 800 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

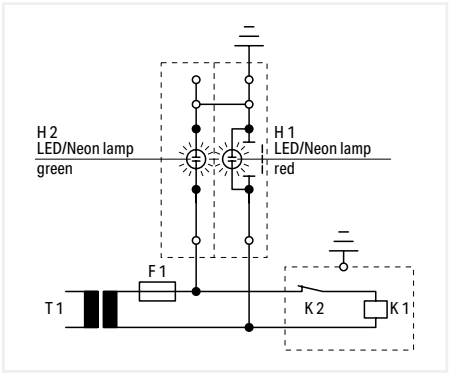
Please observe the application notes:
Jumpers, from page 155
Marking, from page 588

Approvals and corresponding ratings,
visit www.wago.com

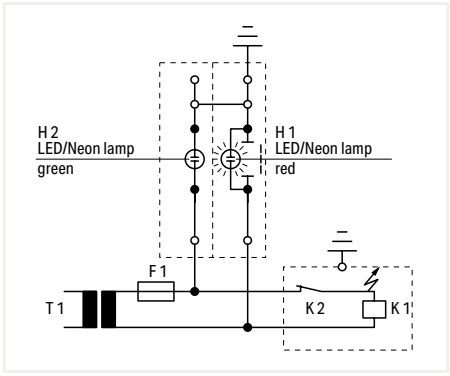
Ground conductor disconnect terminal block – top view



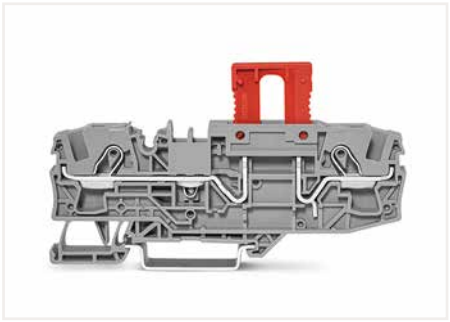
Operating condition
Slide link closed, auxiliary circuit grounded, green LED/neon lamp illuminates.



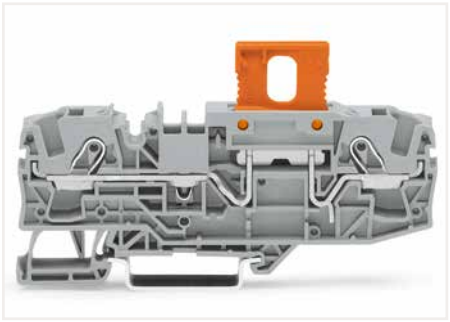
Test condition – no grounding
Slide link open, auxiliary circuit not grounded.



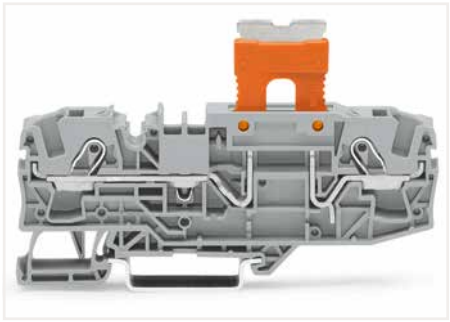
Test condition – grounding
Slide link open, auxiliary circuit not grounded, red LED/neon lamp illuminates.



Blind plug (2006-451) for carrier terminal block (indicates a disconnection)



Carrier terminal block (2006-401) with disconnect plug (2006-1661) in operating position



Carrier terminal block (2006-401) with disconnect plug (2006-1661) in parked position

IEC 60204/DIN VDE 0113 “Safety of machinery – Electrical equipment of machines – Part 1: General requirements,” Section 9.4.3.1:

Ground faults on control circuits must not cause unintentional starting, hazardous movements, or prevent stopping of the machine.

In order to fulfill this requirement, a connection to the protective bonding circuit must be provided in accordance with Section 8.2 and the devices must be connected as described in Section 9.1.4. Control circuits fed from a transformer and not connected to the protective bonding circuit must be provided with an insulation monitoring device (e.g., residual current device), which either indicates a ground fault or interrupts the circuit automatically after a ground fault.

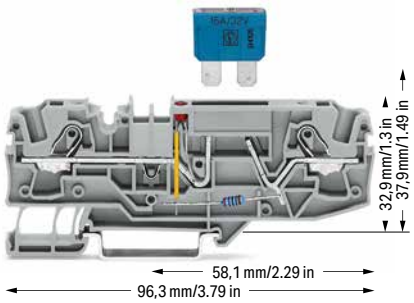
In the case of electronic circuits, the connection of one side of the control circuit to the protective bonding circuit in accordance with Section 9.1.4 can prevent unintentional operation. When this does not help, or if due to other reasons that electronic circuits cannot be connected to the protective bonding circuit, other measures must be taken to achieve the same level of safety.

Multipole control switches that interrupt all live conductors must be used where the control circuit is directly connected between the phase conductors of the supply or between a phase conductor and a neutral conductor, which is either not grounded or grounded through a high impedance. This is required for starting or stopping machine functions, which can cause a hazardous situation including: damaging the machine or halting work in progress in the event of unintentional starting or failure to stop.

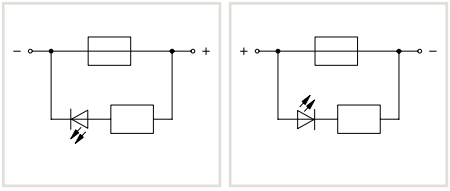
Fuse Terminal Block for Automotive Blade-Style Fuses TOPJOB® S
6 (10) mm²; 2006 Series

1

Technical Data	
0.5 … 6 (10) mm² ❶	20 … 8 AWG
500 V/6 kV/3 ❷	12 V, 15 A
I_N 25 A (30 A) ❸	12 V, 30 A
Terminal block width: 7.5 mm / 0.295 inch	
13 … 15 mm / 0.51 … 0.59 inch	



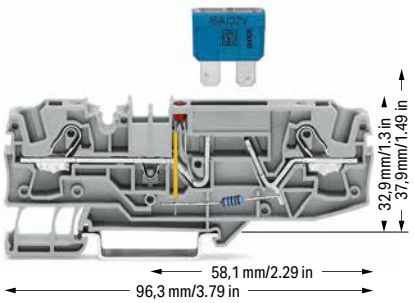
2006-1681/1000-429 2006-1681/1000-449



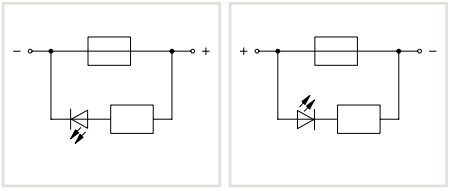
2-conductor fuse terminal block for automotive blade-style fuses; 12 V; with test point; with blown fuse indication by LED; LED power consumption: 4.8 mA
Electrical ratings are given by the fuse and blown fuse indication. Blade-style fuses: Observe touch-proof protection for 42 V and higher voltages!

Color	Item No.	Pack. Unit
gray	2006-1681/1000-429	25
gray	2006-1681/1000-449	25

Technical Data	
0.5 … 6 (10) mm² ❶	20 … 8 AWG
500 V/6 kV/3 ❷	24 V, 15 A
I_N 25 A (30 A) ❸	24 V, 30 A
Terminal block width: 7.5 mm / 0.295 inch	
13 … 15 mm / 0.51 … 0.59 inch	



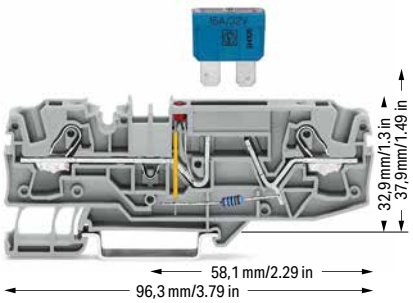
2006-1681/1000-413 2006-1681/1000-434



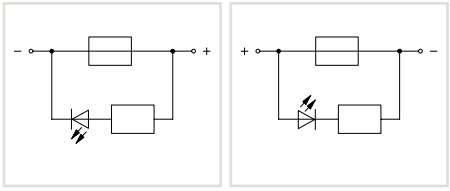
2-conductor fuse terminal block for automotive blade-style fuses; 24 V; with test point; with blown fuse indication by LED; LED power consumption: 4.8 mA
Electrical ratings are given by the fuse and blown fuse indication. Blade-style fuses: Observe touch-proof protection for 42 V and higher voltages!

Color	Item No.	Pack. Unit
gray	2006-1681/1000-413	25
gray	2006-1681/1000-434	25

Technical Data	
0.5 … 6 (10) mm² ❶	20 … 8 AWG
500 V/6 kV/3 ❷	48 V, 30 A
I_N 25 A (30 A) ❸	48 V, 30 A
Terminal block width: 7.5 mm / 0.295 inch	
13 … 15 mm / 0.51 … 0.59 inch	



2006-1681/1000-414 2006-1681/1000-435



2-conductor fuse terminal block for automotive blade-style fuses; 48 V; with test point; with blown fuse indication by LED; LED power consumption: 4.8 mA
Electrical ratings are given by the fuse and blown fuse indication. Blade-style fuses: Observe touch-proof protection for 42 V and higher voltages!

Color	Item No.	Pack. Unit
gray	2006-1681/1000-414	25
gray	2006-1681/1000-435	25

Other terminal blocks with the same profile:

Through	2006-1601	Page 98

Accessories; 2006 Series

Appropriate marking systems: WMB/Marking strips

End and intermediate plate; 1 mm thick

orange	2006-1692	100 (25)
gray	2006-1691	100 (25)

Push-in type jumper bar; insulated; I_N 41 A; light gray

2-way	2006-402	25
3-way	2006-403	25
4-way	2006-404	25
5-way	2006-405	25

Push-in type jumper bar; insulated; I_N 41 A; light gray

1 to 3	2006-433	25
1 to 4	2006-434	25
1 to 5	2006-435	25

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks

yellow	2006-115	100 (25)

Marking strip; plain; 11 mm wide; 50 m reel

white	2009-110	1

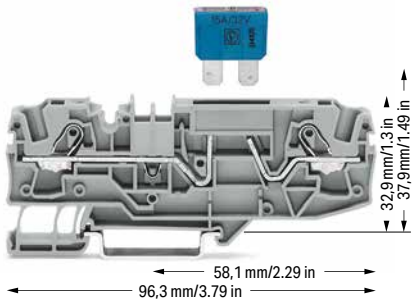
WMB marking card; white; 10 strips with 10 markers/card; 5 … 5.2 mm stretchable

plain	793-5501	5

Double-deck marker carrier; pivoting

gray	2002-121	50 (25)

Technical Data	
0.5 … 6 (10) mm² ❶	20 … 8 AWG
500 V/6 kV/3 ❷	600 V, 15 A
I_N 25 A (30 A)	600 V, 30 A
Terminal block width: 7.5 mm / 0.295 inch	
13 … 15 mm / 0.51 … 0.59 inch	



2-conductor fuse terminal block for automotive blade-style fuses; with test point; without blown fuse indication; Electrical ratings are given by the fuse. Blade-style fuses: Observe touch-proof protection for 42 V and higher voltages!

Color	Item No.	Pack. Unit
gray	2006-1681	25

❶ Conductor range: 0.5 … 10 mm² "s+f-st"; Push-in termination: 2.5 … 10 mm² "s" and 2.5 … 6 mm² "insulated ferrules; 12 mm" Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

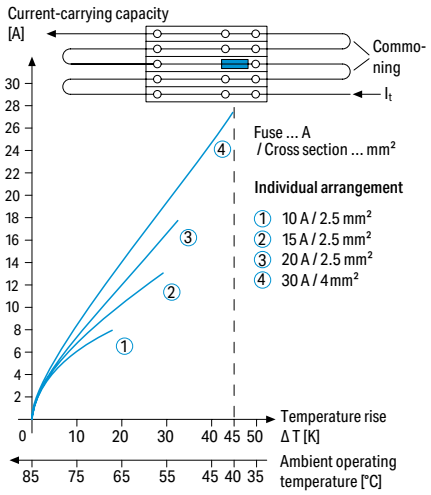
❷ 500 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

❸ LED power consumption: 4.8 mA

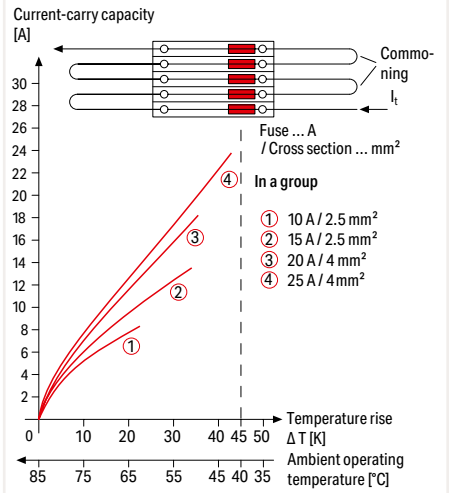
Blade-style fuses are not offered by WAGO.
Thermal automotive circuit breakers are not offered by WAGO.
WAGO recommends automotive circuit breakers from ETA.

Please observe the application notes:
Marking, from page 588

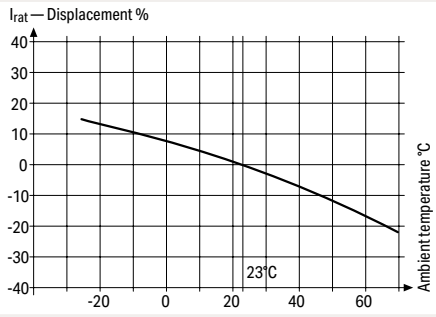
Approvals and corresponding ratings, visit www.wago.com



Application Notes on Fuse Terminal Blocks
Diagram: Individual arrangement



Application Notes on Fuse Terminal Blocks
Diagram: Block arrangement



Application Notes on Fuse Terminal Blocks
Nominal current ratings for fuse cartridges are defined differently in international standards.
This is why the recommended continuous current-carrying capacity of the fuses is a max. 80% of their nominal current according to DIN 72581/Part 3 (for an surrounding air temperature of 23°C).
Selecting the correct fuse cartridge is important for product safety within applications, as well as for fuse cartridge service life and reliability. Fuse cartridges will only operate perfectly as protection components (break-off point) if they are properly selected and used as intended (i.e., according to the state of the technology and valid specifications, as well as data sheet characteristics), according to basic safety requirements (i.e., persons, animals and property must be protected against hazards).

Information from the mini-automotive, blade-type fuse manufacturers

Derating T_{amb} /°C	%	F_T
– 25	14	0.877
– 20	13	0.885
– 15	12	0.893
– 10	11	0.901
– 5	10	0.909
0	9	0.917
5	8	0.926
10	6	0.943
15	4	0.962
20	2	0.980
23	0	1.000
30	– 2	1.020
35	– 4	1.042
40	– 6	1.064
45	– 8	1.087
50	– 10	1.111
55	– 13	1.149
60	– 16	1.190
65	– 19	1.235
70	– 22	1.282

With regard to product safety, fuse cartridges must generally be tested both under normal and faulty operating conditions within your application.

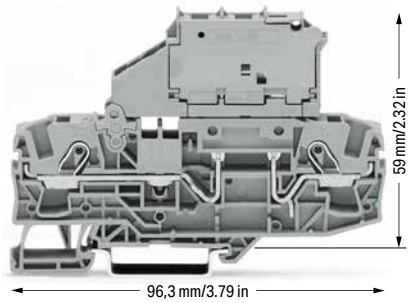
PUSH-IN CAGE CLAMP®

Fused Disconnect Terminal Block with Pivoting Fuse Holder TOPJOB® S; for 5 x 20 mm, 5 x 30 mm and ¼" x 1¼" Glass Cartridge Fuse

6 (10) mm²; 2006 Series

1

Technical Data	
0.5 … 6 (10) mm² ❶	20 … 8 AWG
800 V/8 kV/3 ❷	600 V, 15 A
I_N 10 A	600 V, 15 A
Terminal block width: 7.5 mm / 0.295 inch	
13 … 15 mm / 0.51 … 0.59 inch	



2-conductor fused disconnect terminal block with a pivoting fuse holder; without blown fuse indication
Electrical ratings are given by the fuse.

for 5 x 20 mm glass cartridge fuse

Color	Item No.	Pack. Unit
gray	2006-1611	25

for 5 x 30 mm glass cartridge fuse

gray	2006-1621	25

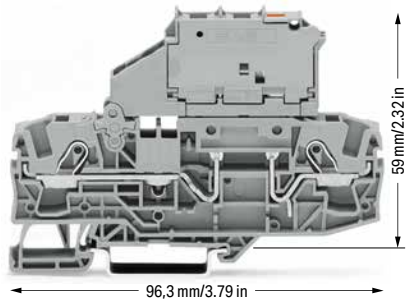
for ¼" x 1¼" glass cartridge fuse

gray	2006-1631	25

Other terminal blocks with the same profile:

Through	2006-1601	Page 98

Technical Data	
0.5 … 6 (10) mm² ❶	20 … 8 AWG
800 V/8 kV/3 ❷	30 V, 15 A
I_N 10 A	30 V, 15 A
Terminal block width: 7.5 mm / 0.295 inch	
13 … 15 mm / 0.51 … 0.59 inch	



2-conductor fused disconnect terminal block with a pivoting fuse holder; gray; with blown fuse indication by LED
Electrical ratings are given by the fuse and blown fuse indication. Leakage current in case of a blown fuse: LED 2 mA

for 5 x 20 mm glass cartridge fuse

	Item No.	Pack. Unit
12 … 30 V	2006-1611/1000-541	25
30 … 65 V	2006-1611/1000-542	25
120 V	2006-1611/1000-867	25
230 V	2006-1611/1000-836	25

for 5 x 30 mm glass cartridge fuse

12 … 30 V	2006-1621/1000-541	25
30 … 65 V	2006-1621/1000-542	25
120 V	2006-1621/1000-867	25
230 V	2006-1621/1000-836	25
380 … 500 V	2006-1621/1000-859	25

for ¼" x 1¼" glass cartridge fuse

12 … 30 V	2006-1631/1000-541	25
30 … 65 V	2006-1631/1000-542	25
120 V	2006-1631/1000-867	25
230 V	2006-1631/1000-836	25
380 … 500 V	2006-1631/1000-859	25

Other terminal blocks with the same profile:

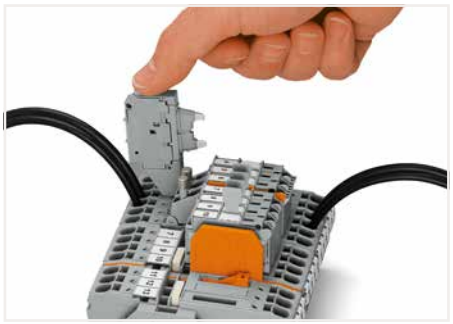
Through	2006-1601	Page 98

❶ Conductor range: 0.5 … 10 mm² "s+f-st";
Push-in termination: 2.5 … 10 mm² "s" and 2.5 … 6 mm² "insulated ferrules; 12 mm"
Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

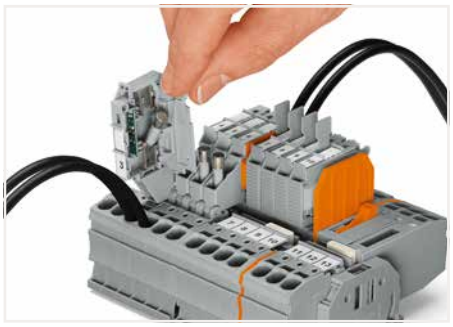
❷ 800 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

Please observe the application notes:
Jumpers, from page 155
Marking, from page 588

Approvals and corresponding ratings, visit www.wago.com



Fused disconnect terminal block with a pivoting fuse holder - pivoting the fuse holder into the locked open position.



Fused disconnect terminal block with a pivoting fuse holder – fuse replacement: Open the cover to replace the fuse.

Accessories; 2006 Series

Appropriate marking systems: WMB/Marking strips

End and intermediate plate; 1 mm thick

orange	2006-1692	100 (25)
gray	2006-1691	100 (25)

End plate for fuse terminal blocks; 2 mm thick

orange	2006-992	100 (25)
gray	2006-991	100 (25)

Push-in type jumper bar; insulated; I_N 41 A; light gray

2-way	2006-402	25
3-way	2006-403	25
4-way	2006-404	25
5-way	2006-405	25

Push-in type jumper bar; insulated; I_N 41 A; light gray

1 to 3	2006-433	25
1 to 4	2006-434	25
1 to 5	2006-435	25

Star point jumper; insulated; I_N = I_N terminal block; light gray

1-3-5	2006-405/011-000	25

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks

yellow	2006-115	100 (25)

Test plug; with 500 mm cable; 2 mm Ø; max. 42 V

red	210-136	50

WMB marking card; white; 10 strips with 10 markers/card; 5 … 5.2 mm stretchable

plain	793-5501	5

PUSH-IN CAGE CLAMP®

Fused Disconnect Terminal Block with Pivoting Fuse Holder TOPJOB® S; for ¼" x 1¼" Glass Cartridge Fuse

6 (10) mm²; 2006 Series

Technical Data	
0.5 … 6 (10) mm² ❶	20 … 8 AWG
800 V/8 kV/3 ❷	600 V, 15 A
I_N 10 A	600 V, 15 A
Terminal block width: 10.4 mm / 0.409 inch	
13 … 15 mm / 0.51 … 0.59 inch	

Fused disconnect terminal block with a pivoting fuse holder and end plate; without blown fuse indication
Electrical ratings are given by the fuse.

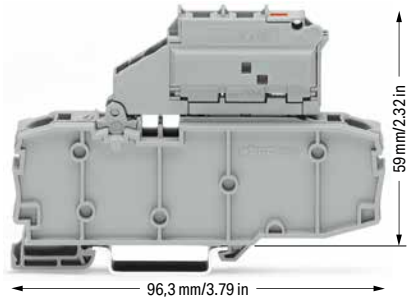
for ¼" x 1¼" glass cartridge fuse

Color	Item No.	Pack. Unit
gray	2006-1631/099-000	25

Other terminal blocks with the same profile:

Through	2006-1601	Page 98

Technical Data	
0.5 … 6 (10) mm² ❶	20 … 8 AWG
800 V/8 kV/3 ❷	30 V, 15 A
I_N 10 A	30 V, 15 A
Terminal block width: 10.4 mm / 0.409 inch	
13 … 15 mm / 0.51 … 0.59 inch	



Fused disconnect terminal block with a pivoting fuse holder and end plate; gray; with blown fuse indication by LED
Electrical ratings are given by the fuse and blown fuse indication. Leakage current in case of a blown fuse: LED 2 mA

for ¼" x 1¼" glass cartridge fuse

	Item No.	Pack. Unit
12 … 30 V	2006-1631/1099-541	25
30 … 65 V	2006-1631/1099-542	25
120 V	2006-1631/1099-867	25
230 V	2006-1631/1099-836	25
380 … 500 V	2006-1631/1099-859	25

Other terminal blocks with the same profile:

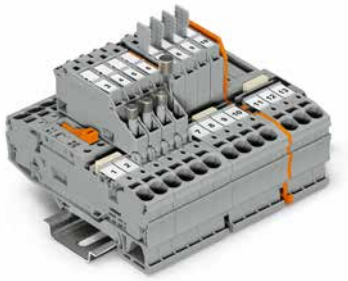
Through	2006-1601	Page 98

❶ Conductor range: 0.5 … 10 mm² "s+f-st";
Push-in termination: 2.5 … 10 mm² "s" and 2.5 … 6 mm² "insulated ferrules; 12 mm"
Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 800 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

Please observe the application notes:
Jumpers, from page 155
Marking, from page 588

Approvals and corresponding ratings, visit www.wago.com



Pivoting fuse holder with spare fuse holder

Accessories; 2006 Series

Appropriate marking systems: WMB/Marking strips

End plate for fuse terminal blocks; 2 mm thick

orange	2006-992	100 (25)
gray	2006-991	100 (25)

Push-in type jumper bar; insulated; I_N 25 A; light gray

1 to 3	2002-433	25
1 to 5	2002-435	25
1 to 7	2002-437	25
1 to 9	2002-439	25

Star point jumper; insulated; I_N = I_N terminal block; light gray

1-3-5	2002-405/011-000	25

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks

yellow	2006-115	100 (25)

Test plug; with 500 mm cable; 2 mm Ø; max. 42 V

red	210-136	50

WMB marking card; white; 10 strips with 10 markers/card; 5 … 5.2 mm stretchable

plain	793-5501	5

Glass cartridge fuses

Series Item No.		Overload and short circuit protection		Short circuit protection only	
		Individual argmt.	Group argmt.	Individual argmt.	Group argmt.
		Fused disconnect terminal blocks			
2006-1611	7.5	1.6 W	1.6 W	2.5 W	2.5 W
2006-1621	7.5	1.6 W	1.6 W	2.5 W	2.5 W
2006-1631	7.5	1.6 W	1.6 W	2.5 W	2.5 W
2006-1631 /099-...	10.4	2.5 W	2.5 W	2.5 W	2.5 W
2006-1631 /1099-...	10.4	2.5 W	2.5 W	2.5 W	2.5 W

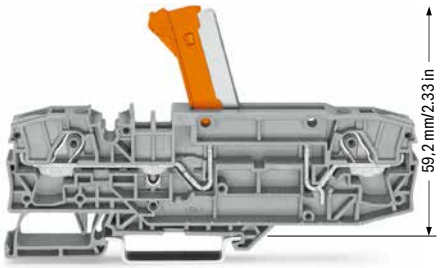
When selecting glass cartridge fuses, make sure that the maximum power loss listed below is not exceeded. The power loss is determined according to IEC or EN 60947-7-3/VDE 0611-6 at 23°C. The temperature rise of the terminal blocks must be checked according to their application and mounting. Higher ambient temperatures represent an additional impact on fuse cartridges. Therefore, in such applications, the rated current must be reduced if necessary. More details are available from the manufacturers.

Disconnect/Test Terminal Block; Through/Carrier Terminal Block of Same Profile TOPJOB® S
6 (10) mm²; 2006 Series

1

Technical Data

0.5 … 6 (10) mm² ❶ | 20 … 8 AWG
1000 VAC/DC / 1500 VDC / 12 kV / 3 ❷
I_N 30 A 600 V, 30 A; 1000 V, 30 A
Terminal block width: 15 mm / 0.591 inch
13 … 15 mm / 0.51 … 0.59 inch

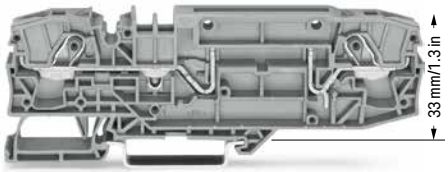


2-conductor disconnect/test terminal block; with test point; orange disconnect link

Color	Item No.	Pack. Unit
gray	2006-8671	12
blue	2006-8674	12

Technical Data

0.5 … 6 (10) mm² ❶ | 20 … 8 AWG
1000 VAC/DC / 1500 VDC / 12 kV / 3 ❷
I_N 30 A 600 V, 30 A; 1000 V, 30 A
Terminal block width: 15 mm / 0.591 inch
13 … 15 mm / 0.51 … 0.59 inch



2-conductor carrier terminal block; with test point

Color	Item No.	Pack. Unit
gray	2006-8661	12
blue	2006-8664	12

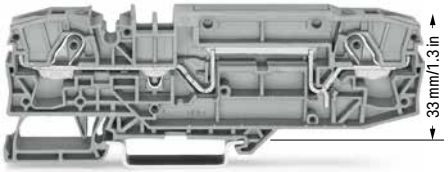
Accessories; item-specific

Disconnect plug for carrier terminal blocks; suitable when using a carrier terminal block as disconnect terminal block

orange	2006-8401	48 (12)

Technical Data

0.5 … 6 (10) mm² ❶ | 20 … 8 AWG
1000 VAC/DC / 1500 VDC / 12 kV / 3 ❷
I_N 30 A 600 V, 30 A; 1000 V, 30 A
Terminal block width: 15 mm / 0.591 inch
13 … 15 mm / 0.51 … 0.59 inch



2-conductor through terminal block; with test point; same profile as 2-conductor disconnect terminal block

Color	Item No.	Pack. Unit
gray	2006-8601	12
blue	2006-8604	12

Accessories; 2006 Series

Appropriate marking systems: WMB/Marking strips

End and intermediate plate; 1 mm thick

orange	2006-8692	48 (12)
gray	2006-8691	48 (12)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks

yellow	2006-115	100 (25)

Push-in type jumper bar; insulated; I_N 41 A; light gray

1 to 3	2006-433	25
1 to 5	2006-435	25

Lockout cap; for conductor entry and operating slot

gray	2006-191	25

WMB Inline, plain; 1,500 WMB markers (5 mm)/reel; 5 … 5.2 mm stretchable

white	2009-115	1

Marking strip; plain; 11 mm wide; 50 m reel

white	2009-110	1

WMB marking card; white; 10 strips with 10 markers/card; 5 … 5.2 mm stretchable

plain	793-5501	5

WMB marking card; plain; 10 strips with 10 markers/card; 5 … 5.2 mm stretchable

yellow	793-5501/000-002	5
red	793-5501/000-005	5
blue	793-5501/000-006	5
gray	793-5501/000-007	5
orange	793-5501/000-012	5
light green	793-5501/000-017	5
green	793-5501/000-023	5
violet	793-5501/000-024	5

PUSH-IN CAGE CLAMP®

1

❶ Conductor range: 0.5 … 10 mm² “s+f-st”;
Push-in termination: 2.5 … 10 mm² “s” and
2.5 … 6 mm² “insulated ferrules; 12 mm”
Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 1000 VAC/DC = rated voltage
1500 VDC
12 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

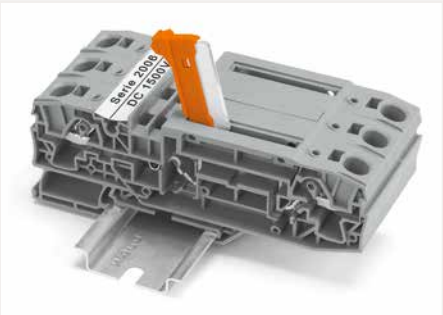
Please observe the application notes:
Marking, from page 588

Protective warning markers must be applied individually.

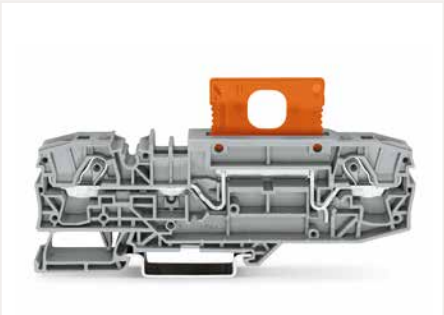
Approvals and corresponding ratings,
visit www.wago.com

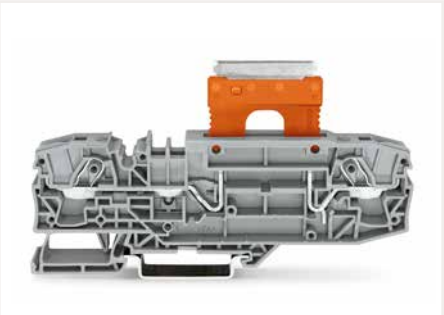
Both 2006-8671 and 2006-8661 Disconnect Terminal Blocks are specially designed for use in photovoltaic and wind power systems, where voltages exceeding 1,000 V (IEC) and 600 V (UL) occur (e.g., generator junction boxes).

- Ideal for high voltages in renewable energy applications
- **Disconnect terminal blocks with two alternative disconnect options:**
  with orange knife disconnect (2006-8671)
  with orange disconnect plug (2006-8661)
- These 2006 Series terminal blocks are approved for 1,500 VDC (IEC) or 1,000 VDC (UL) and 30 A.
- With a terminal block width of 15 mm, the maximum cross-section for solid and fine-stranded conductors is 10 mm² (AWG 8) and 6 mm² (AWG 10) for ferruled conductors.
- Equipped with two test slots
- Compatible with through terminal blocks of the same profile and all other terminal blocks TOPJOB® S

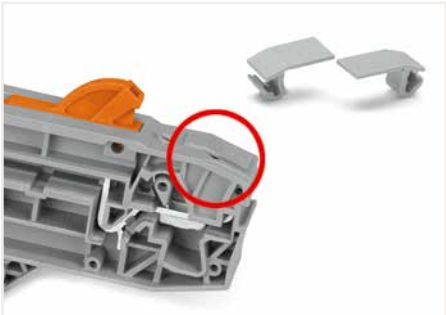


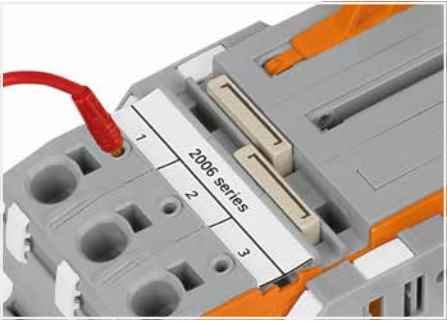
Disconnect/test terminal block with knife disconnect (2006-8671) in disconnect position


Carrier terminal block with disconnect plug (2006-8401) in operating position


Carrier terminal block with disconnect plug (2006-8401) in parked position

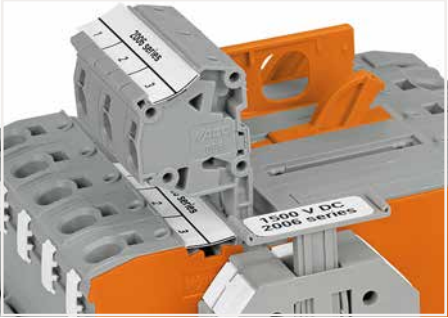
Commoning a 15 mm-wide terminal block via push-in type jumper bars: 1 to 3 (2006-433) and 1 to 5 (2006-435).


Cover (2006-191) seals unused conductor entry.



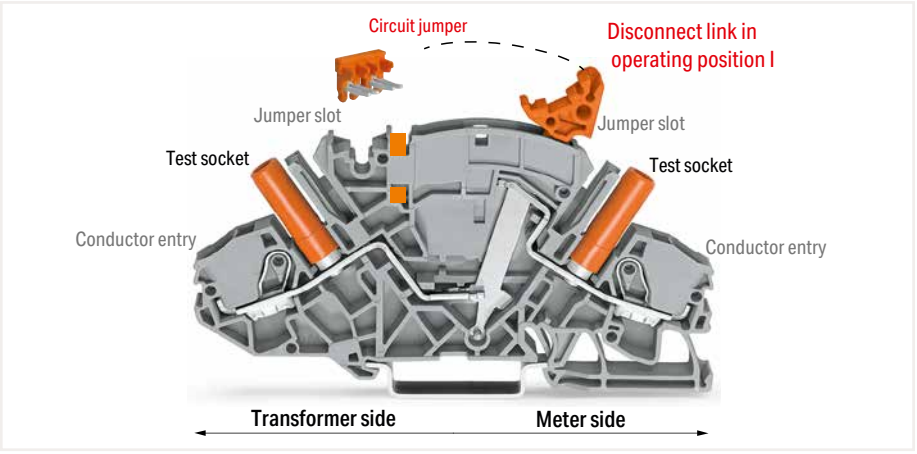
Test slots on both terminal block sides allow for direct measurement.

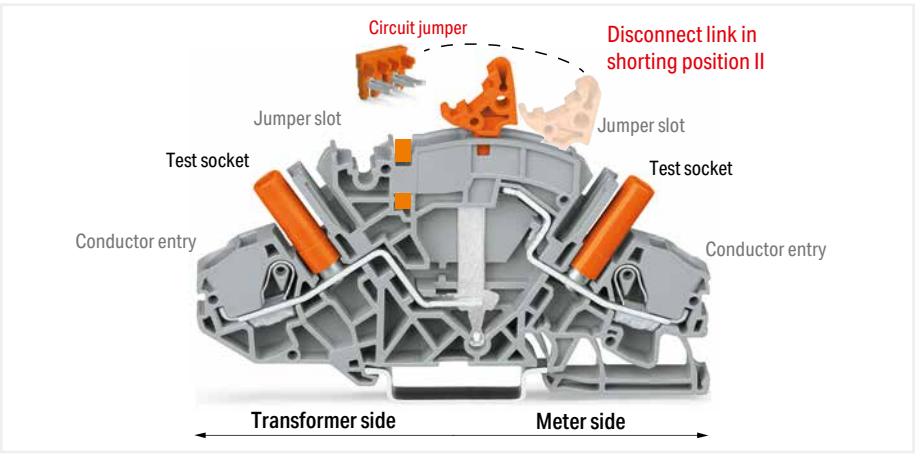
Test slots on both terminal block sides allow for direct measurement.

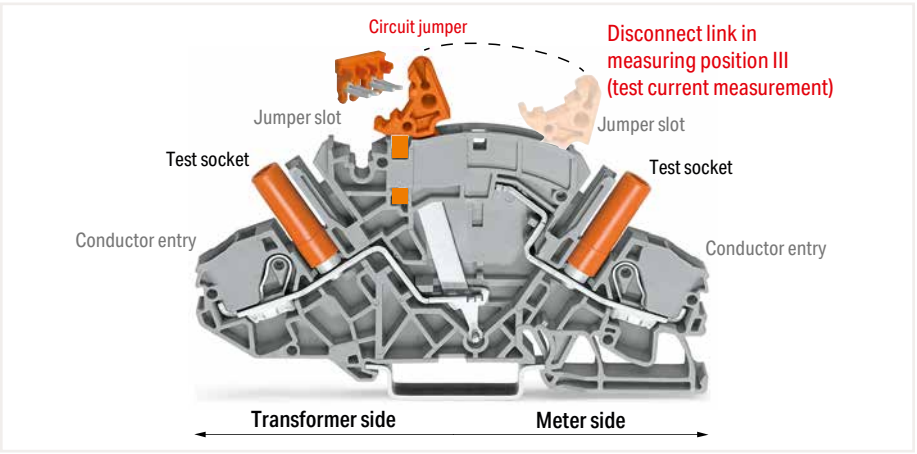


Alternatively, measurement can also be performed using Connectors (2006-511) from terminal block 1 to 2. Spacer modules (2006-549) must be used to compensate for the 15 mm terminal block width.

Current Transformer Terminal Blocks TOPJOB® S, 2007-8821 (Orange Disconnect Link)







Current Transformer (Disconnect/Test) Terminal Block (2007-8821) is designed for current transformer circuits.

First, the current transformer is shorted via disconnect link and circuit jumper (insert jumper, move disconnect link from operating position I to shorting position II, activate shorting path). Connecting a measurement device via test socket on the meter side can only be performed once circuit disconnection is complete (disconnect link in measuring position III).

Advantages:

- Top-of-unit circuit jumper slot for shorting path activation
- Disconnect link provides intuitive and easy operation, as well as exact switching status indication.
- Combines high functionality with compact design (99.6 mm long and 8 mm wide).
- All 2007 Series terminal blocks are rated at 30 A/500 V (IEC) and 300 V (UL).
- With a terminal block width of 8 mm, the maximum cross-section for solid and fine-stranded conductors is 10 mm² (8 AWG) and 6 mm² (10 AWG) for ferruled conductors.
- Touch-proof test sockets for 4 mm Ø test plugs on transformer and meter side.
- Compatible with through and ground conductor terminal blocks having the same profile.

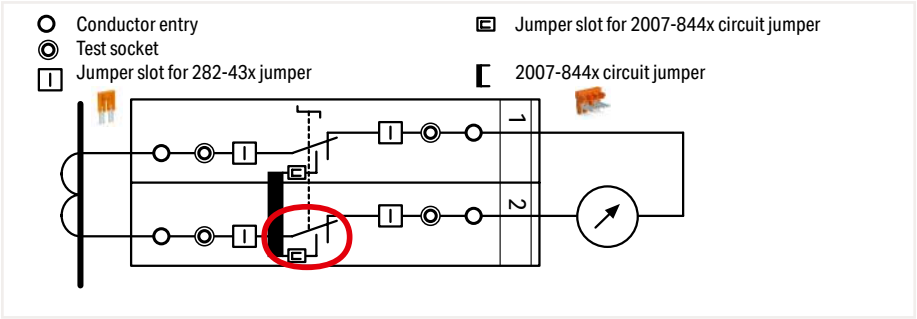
Preparing shorting path for the current transformer circuits.

Insert insulated, touch-proof circuit jumpers into jumper slot.

Using locking covers or profiles for adjacent terminal blocks allows disconnect links to be operated simultaneously.

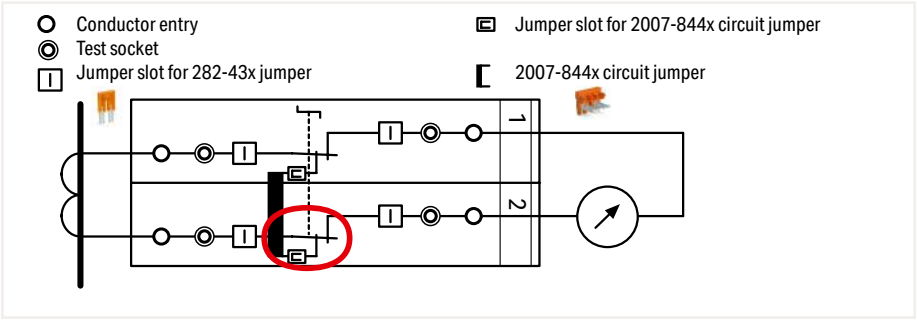
Implementing a Current and Voltage Transformer Circuit TOPJOB® S

Disconnect link in operating position I
Terminal blocks required:
2 x disconnect/test terminal block (2007-8821)
1 x circuit jumper, orange (2007-8442)
Locking covers or interlocking links (option)



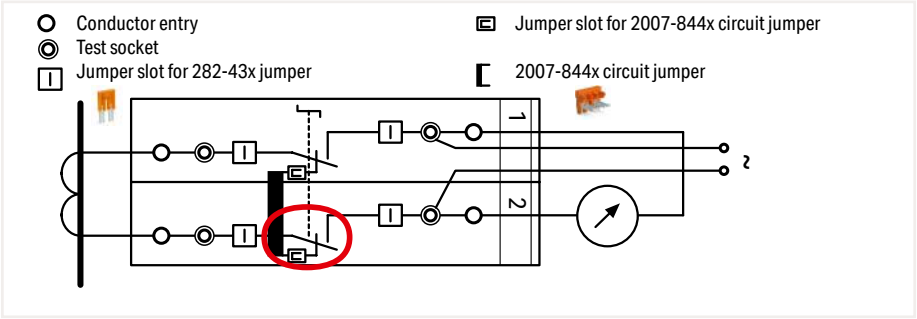
In the operating position, the measurement device is connected to the transformer, the circuit jumper is inserted and the disconnect link is in position I.

Disconnect link in shorting position II



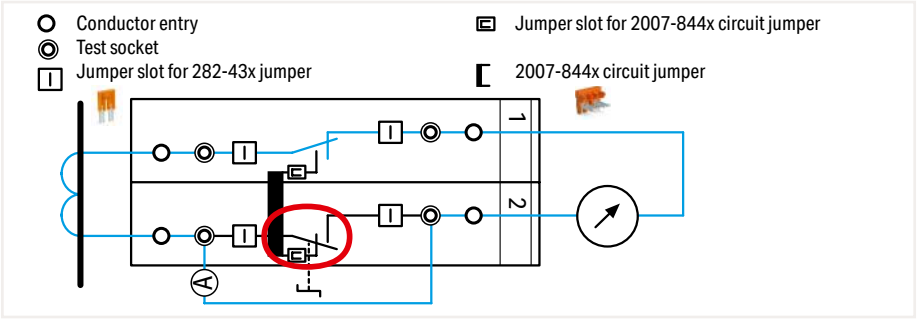
The transformer is not disconnected from the measuring device yet, the shorting path is activated by moving the disconnect link into shorting position II and the transformer is safely shorted.

Test current measurement: Disconnect link in measuring position III



The measuring device is electrically disconnected from the transformer. If required, an external voltage can be applied to the measuring device via the test socket.

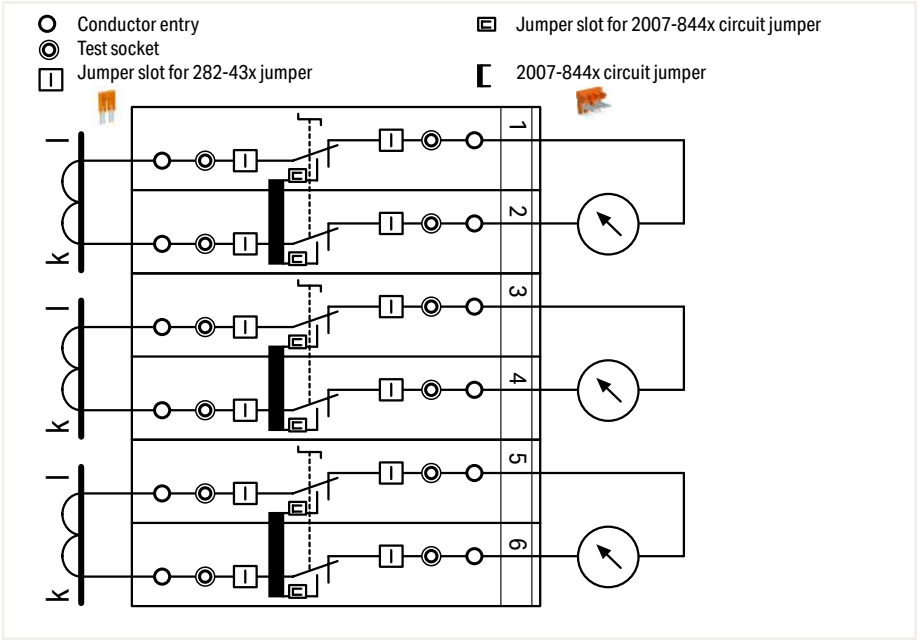
Measurement testing (using both test sockets)
Terminal block 1: Disconnect link in operating position I
Terminal block 2: Disconnect link in measuring position III



Measurement testing: First insert the reference current meter (A) into the test socket, then move the disconnect link into measurement point III (test current measurement).

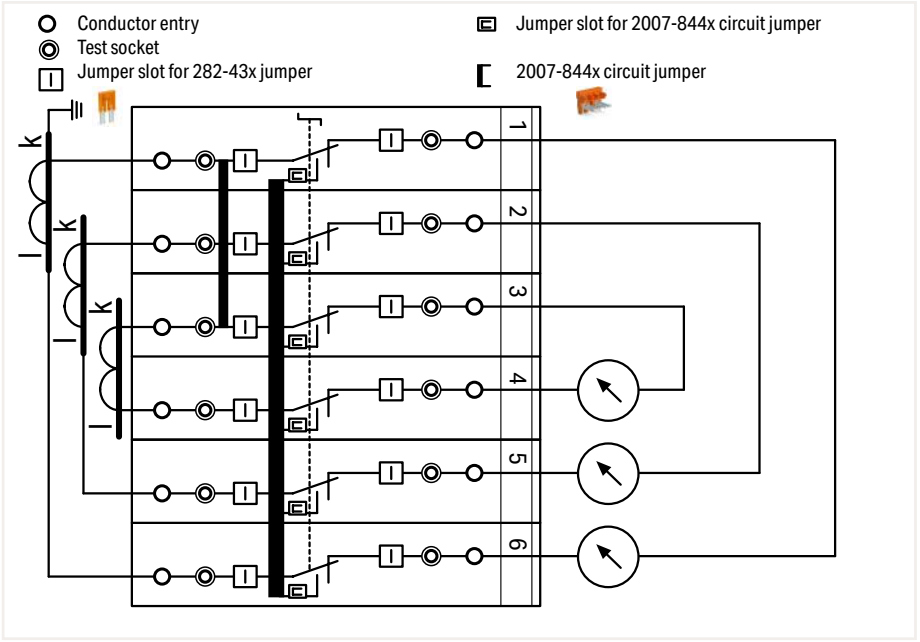
Examples for Current Transformer Circuits TOPJOB® S

Measuring set for a three-phase current transformer
Terminal blocks required:
- 6 x disconnect/test terminal block (2007-8821)
- 3 x circuit jumper, orange (2007-8442)
- In addition: interlocking link, locking cover, lock-out



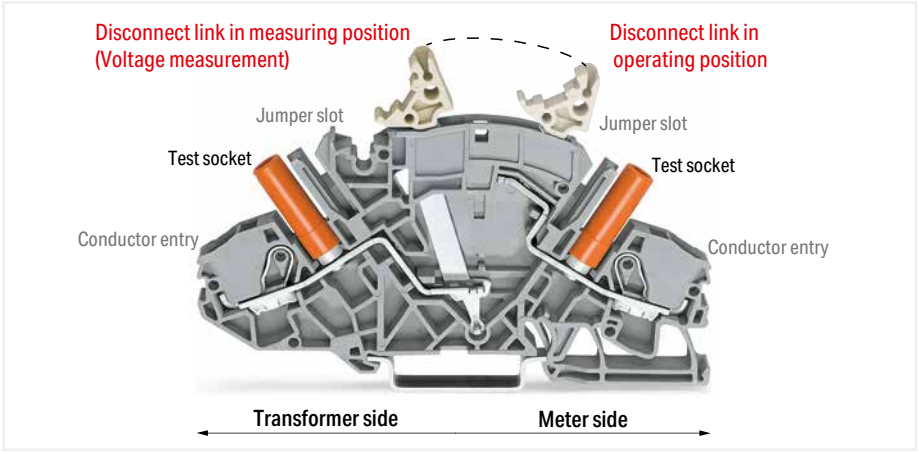
Pairs of disconnect links are interconnected via locking cover or interlocking link. Measurement testing is performed after the interlocking is released.

Measuring set for a three-phase current transformer with 'Y' point
Terminal blocks required:
- 6 x disconnect/test terminal block (2007-8821)
- 1 x circuit jumper, orange (2007-8446)
- 1 x jumper, orange (282-433)
- In addition: interlocking link, locking cover, lock-out



All six disconnect links are interconnected via locking cover or interlocking link.

Voltage Transformer Terminal Blocks TOPJOB® S, 2007-8811 (Light Gray Disconnect Link)



Voltage Transformer (Disconnect/Test) Terminal Block (2007-8811) is designed for current transformer circuits.

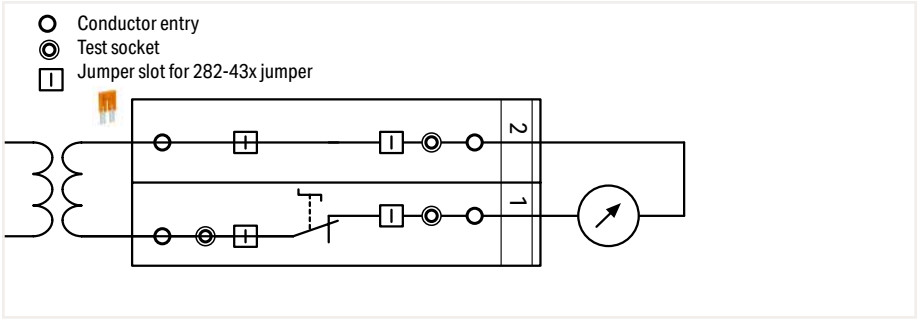
First, disconnect the voltage transformer from the circuit (move disconnect link from operating position to measurement position). Connecting a measurement device via test socket on the meter side can only be performed after disconnection is complete (measuring position).

Advantages:

- For voltage transformer circuits (no circuit jumper slot required as for 2007-8821 Current Transformer Terminal Block)
- Disconnect link provides intuitive and easy operation, as well as exact switching status indication.
- Combines high functionality with compact design (99.6 mm long and 8 mm wide).
- All 2007 Series terminal blocks are rated at 30 A/500 V (IEC) and 300 V (UL).
- With a terminal block width of 8 mm, the maximum cross-section for solid and fine-stranded conductors is 10 mm² (8 AWG) and 6 mm² (10 AWG) for ferruled conductors.
- Touch-proof test sockets for 4 mm Ø test plugs on transformer and meter side.
- Compatible with through and ground conductor terminal blocks having the same profile.

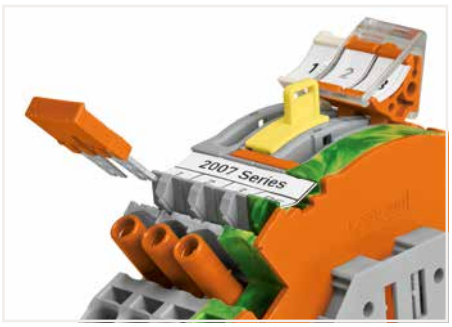
Example for voltage transformer testing:
Measuring set for single-phase voltage transformer testing
Terminal blocks required:

- 1 x disconnect/test terminal block (2007-8811)
- 1 x through terminal block (2007-8801)
- 1 x end plate, orange (2007-8892)
- In addition: locking cover, lock-out



Disconnecting the voltage transformer from the circuit: Move disconnect link from operating position to measurement position.
Voltage measurement: Connecting a measurement device via test socket on the meter side can only be performed after disconnection is complete (measuring point).

Marking via WMB Multi markers or marking strips.



Additional commoning option on the transformer side

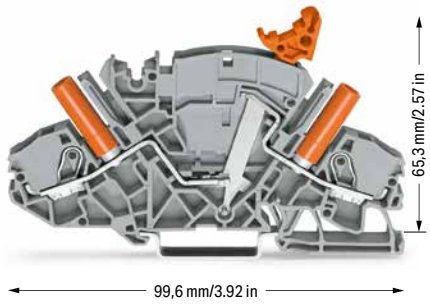
Multipole switching via snap-on type, transparent (locking) cover for disconnect links.

Disconnect/Test Terminal Block, Through/Ground Conductor Terminal Block TOPJOB® S; for Current and Voltage Transformer Circuits

6 mm²; 2007 Series

1

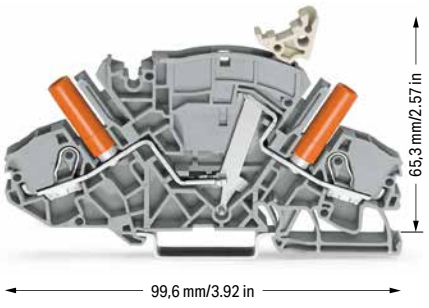
Technical Data	
0.5 … 6 (10) mm² ❶	20 … 8 AWG
500 V/6 kV/3 ❷	300 V, 30 A
I_N 30 A	
Terminal block width: 8 mm / 0.315 inch	
13 … 15 mm / 0.51 … 0.59 inch	



2-conductor disconnect/test terminal block; e.g., current transformer circuits; with circuit jumper slot; with touch-proof test sockets; for 4 mm Ø test plugs

Color	Item No.	Pack. Unit
gray	2007-8821	20

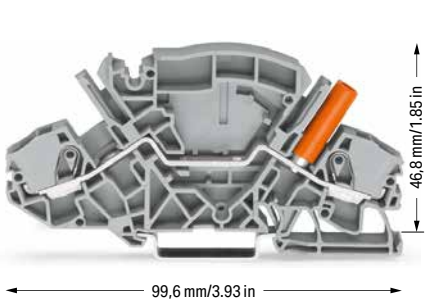
Technical Data	
0.5 … 6 (10) mm² ❶	20 … 8 AWG
500 V/6 kV/3 ❷	300 V, 30 A
I_N 30 A	
Terminal block width: 8 mm / 0.315 inch	
13 … 15 mm / 0.51 … 0.59 inch	



Disconnect/test terminal block; e.g., for voltage transformer circuits; with touch-proof test sockets; for 4 mm Ø test plugs

Color	Item No.	Pack. Unit
gray	2007-8811	20

Technical Data	
0.5 … 6 (10) mm² ❶	20 … 8 AWG
500 V/6 kV/3 ❷	300 V, 30 A
I_N 30 A	
Terminal block width: 8 mm / 0.315 inch	
13 … 15 mm / 0.51 … 0.59 inch	



2-conductor through terminal block; with touch-proof test socket; for 4 mm Ø test plugs

Color	Item No.	Pack. Unit
gray	2007-8801	20
blue	2007-8804	20

Accessories; item-specific

Jumper; insulated; I_N 30 A; orange

2-way	2007-8442	50 (10)
3-way	2007-8443	50 (10)
4-way	2007-8444	50 (10)
5-way	2007-8445	50 (10)
6-way	2007-8446	50 (10)
7-way	2007-8447	50 (10)
8-way	2007-8448	50 (10)

Accessories; 2007 Series

Appropriate marking systems: WMB/Marking strips

End and separator plate; 1.5 mm thick; without lock-out seal option

orange	2007-8892	50 (10)
gray	2007-8891	50 (10)

End and separator plate; 1.5 mm thick; with lock-out seal option

orange	2007-8894	50 (10)
gray	2007-8893	50 (10)

Lock-out device; for disconnect link

yellow	2007-8899	100 (20)

Locking cover; mechanically locks multiple links; transparent

1-pole	282-881	50 (10)
2-pole	282-882	50 (10)
3-pole	282-883	50 (10)
4-pole	282-884	50 (10)
5-pole	282-885	50 (10)
6-pole	282-886	50 (10)
7-pole	282-887	50 (10)
8-pole	282-888	50 (10)

Jumper; insulated; I_N 30 A; orange

2-way	282-432	50 (10)
3-way	282-433	50 (10)
4-way	282-434	50 (10)
5-way	282-435	50 (10)
6-way	282-436	50 (10)
7-way	282-437	50 (10)
8-way	282-438	50 (10)
9-way	282-439	50 (10)
10-way	282-440	50 (10)

Jumper with safety lid; insulated; I_N 30 A; orange

2-way	282-432/100-000	50 (10)
3-way	282-433/100-000	50 (10)
4-way	282-434/100-000	50 (10)

Interlocking link; mechanically locks multiple links; 1 m long

transparent	210-254	1

Jumper; insulated; I_N 30 A; orange

1-3-5	282-435/011-000	50 (10)
1-4-5	282-435/301-000	50 (10)
1-3-4-5	282-435/300-000	50 (10)
1-2-4-6	282-436/301-000	50 (10)
1-4-6	282-436/304-000	50 (10)
1-3-5-7	282-437/011-000	50 (10)
1-4-7	282-437/012-000	50 (10)
1-2-5-8	282-438/300-000	50 (10)
1-4-7-8	282-438/301-000	50 (10)
1-3-5-7-9	282-439/011-000	50 (10)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks

yellow	2006-115	100 (25)

WMB marking card; white; 10 strips with 10 markers/card; stretchable 5 … 5.2 mm

plain	793-5501	5

Marking strip; plain; 11 mm wide; 50 m reel

white	2009-110	1

Technical Data	
0.5 … 6 (10) mm² ❶	20 … 8 AWG

Terminal block width: 8 mm / 0.315 inch

13 … 15 mm / 0.51 … 0.59 inch

❶ Conductor range: 0.5 … 10 mm² "s+f-st";
Push-in termination: 2.5 … 10 mm² "s" and
2.5 … 6 mm² "insulated ferrules; 12 mm"
Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 500 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

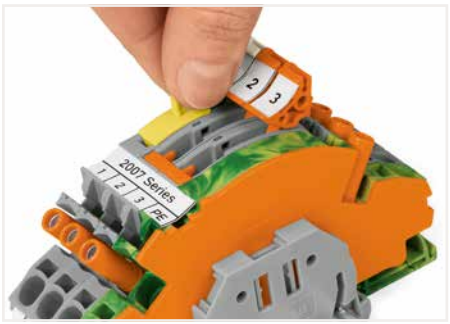
Please observe the application notes:
Marking, from page 588

Approvals and corresponding ratings, visit www.wago.com

Marking via WMB Multi markers or marking strips.

2-conductor ground terminal block; with touch-proof test socket; for 4 mm Ø test plugs

Color	Item No.	Pack. Unit
green-yellow	2007-8807	20



Lock-out prevents accidental operation of disconnect link.

Lock-out snaps into one of two notched positions.

WMB marking card; 10 strips with 10 markers/card; stretchable 5 … 5.2 mm; yellow

k/l (50x)	794-5553/000-002	5

WMB marking card; 10 strips with 10 markers/card; stretchable 5 … 5.2 mm; blue

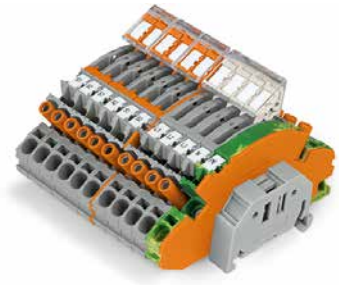
U/V (50x)	794-5554/000-006	5

Interlocking link mechanically locks multiple links for multi-pole switching applications.

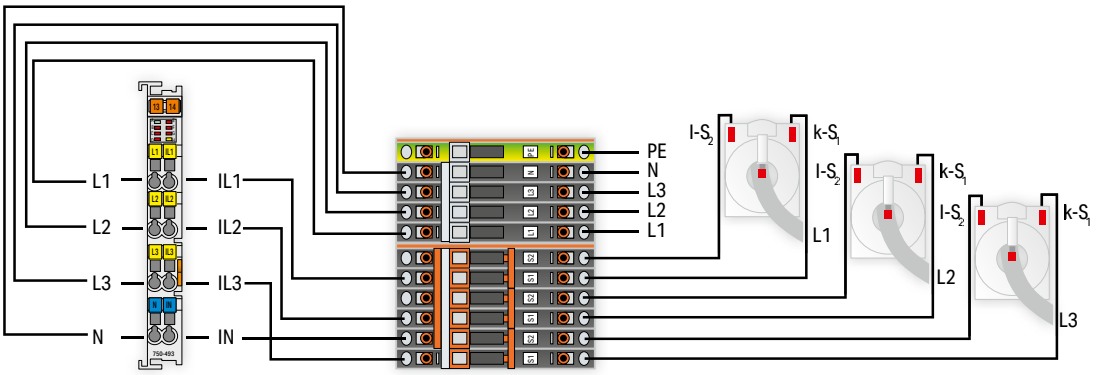
A lock-out seal can be used on the disconnect link in operating position I in combination with an end and separator plate (2007-8893 or 2007-8894).

Terminal Block Assembly TOPJOB® S; for Current and Voltage Transformers
6 (10) mm²; 2007 Series

1



Item No. for 2007-8873 Designation	Quantity
249-117 Screwless end stop; 10 mm wide	2
282-882 Locking cover; mechanically locks multiple links, 2-pole	3
282-884 Locking cover; mechanically locks multiple links, 4-pole	1
2007-8442 Circuit jumper; insulated; 2-way	3
2007-8807 2-conductor ground terminal block; with touch-proof test socket; for 4 mm Ø test plugs	1
2007-8811 2-conductor disconnect/test terminal block; with touch-proof test sockets; for 4 mm Ø test plugs	4
2007-8821 2-conductor disconnect/test terminal block; with touch-proof test sockets; for 4 mm Ø test plugs	6
2007-8892 End and separator plate; 1.5 mm thick; without lock-out seal option	2
2009-115 WMB Inline, plain; 1,500 WMB markers (5 mm)/reel; 5 … 5.2 mm stretchable	21 markers
282-435/011-000 Jumper; insulated; 1-3-5	1
Assembly width incl. end stop: 11.2 cm	



3-Phase Power Measurement Module, 750 Series

Terminal Block Assembly for Current and Voltage Transformers, 2007 Series

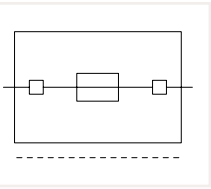
Current Transformers, 855 Series

Item No. for 2007-8876 Designation	Quantity
249-117 Screwless end stop; 10 mm wide	2
282-369 Collective jumper carrier; for DIN-35 rail; compatible with jumpers for transverse switching terminal block (282-811) and longitudinal switching disconnect terminal block (282-821)	1
282-882 Locking cover; mechanically locks multiple links, 2-pole	3
2007-8442 Circuit jumper; insulated; 2-way	3
2007-8821 2-conductor disconnect/test terminal block; with touch-proof test sockets; for 4 mm Ø test plugs	6
2007-8892 End and separator plate; 1.5 mm thick; without lock-out seal option	1
2009-115 WMB Inline, plain; 1,500 WMB markers (5 mm)/reel; 5 … 5.2 mm stretchable	12 markers
282-435/011-000 Jumper; insulated; 1-3-5	1
Assembly width incl. end stop: 8.5 cm	

Fuse Plug TOPJOB® S on Carrier Terminal Block 2.5 (4) mm²
2004 Series

1

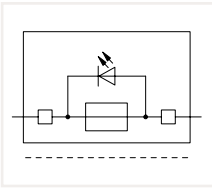
Technical Data
250 V / I_N 6.3 A
Plug width: 6.1 mm / 0.24 inch



Fuse plug with pull-tab; for 5 x 20 mm glass cartridge fuses
Electrical ratings are given by the fuse.

Color	Item No.	Pack. Unit
gray	2004-911	50

Technical Data
250 V / I_N 6.3 A
Plug width: 6.1 mm / 0.24 inch



Fuse plug with pull-tab; for 5 x 20 mm glass cartridge fuses; with LED, gray
Electrical ratings are given by the fuse and blown fuse indication. Leakage current in case of a blown fuse: LED 2 mA

	Item No.	Pack. Unit
12 … 30 V	2004-911/1000-541	50
30 … 65 V	2004-911/1000-542	50
120 V	2004-911/1000-867	50
230 V	2004-911/1000-836	50

Approvals and corresponding ratings, visit www.wago.com

Accessories; for fuse plugs

Appropriate marking systems: WMB/Marking strips

2-conductor carrier terminal block; 0.25 … 2.5 (4) mm² / 22 … 12 AWG
Terminal block width: 5.2 mm / 0.205 inch

gray	2002-1661	50

End and intermediate plate; 1 mm thick

orange	2002-1692	100 (25)
gray	2002-1691	100 (25)

3-conductor carrier terminal block; 0.25 … 2.5 (4) mm² / 22 … 12 AWG
Terminal block width: 5.2 mm / 0.205 inch

gray	2002-1761	50

End and intermediate plate; 1 mm thick

orange	2002-1792	100 (25)
gray	2002-1791	100 (25)

4-conductor carrier terminal block; 0.25 … 2.5 (4) mm² / 22 … 12 AWG
Terminal block width: 5.2 mm / 0.205 inch

gray	2002-1861	50

End and intermediate plate; 1 mm thick

orange	2002-1892	100 (25)
gray	2002-1891	100 (25)

2-conductor carrier terminal block; 0.25 … 2.5 (4) mm² / 22 … 12 AWG
Terminal block width: 5.2 mm / 0.205 inch

gray	2002-1961	50

End and intermediate plate; 1 mm thick

orange	2002-1992	100 (25)
gray	2002-1991	100 (25)

Double-deck carrier terminal block; 0.25 … 2.5 (4) mm² / 22 … 12 AWG
Terminal block width: 5.2 mm / 0.205 inch

L/L	2002-2961	50

Double-deck carrier terminal block; 0.25 … 2.5 (4) mm² / 22 … 12 AWG
Terminal block width: 5.2 mm / 0.205 inch

L/N	2002-2963	50

End and intermediate plate; 1 mm thick

orange	2002-2992	100 (25)
gray	2002-2991	100 (25)

Disconnect plug for carrier terminal blocks; suitable when using a carrier terminal block as disconnect terminal block

orange	2002-401	100 (25)

Accessories; for fuse plugs

Appropriate marking systems: WMB/Marking strips

End plate for fuse terminal blocks; 2 mm thick

orange	2002-992	100 (25)
gray	2002-991	100 (25)

Shorting link; 5 x 20 mm; allows the fuse plug to be used as a disconnect plug

I_N 6.3 A	281-503	250 (25)

WMB marking card; white; 10 strips with 10 markers/card; 5 … 5.2 mm stretchable

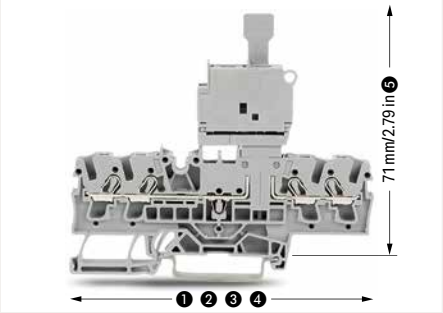
plain	793-5501	5

WMB marking card; plain; 10 strips with 10 markers/card; 5 … 5.2 mm stretchable

yellow	793-5501/000-002	5
red	793-5501/000-005	5
blue	793-5501/000-006	5
gray	793-5501/000-007	5
orange	793-5501/000-012	5
light green	793-5501/000-017	5
green	793-5501/000-023	5
violet	793-5501/000-024	5

PUSH-IN CAGE CLAMP®

Fuse Plug TOPJOB® S on Carrier Terminal Blocks 2.5 (4) mm²
Technical Information



Fuse plug dimensions:
❶ 66.1 mm / 2.62 inch for 2002-1661
❷ 76.8 mm / 3.02 inch for 2002-1761
❸ 87.5 mm / 3.45 inch for 2002-1861
❹ 72.9 mm / 2.87 inch for 2002-1961
❺ with inserted fuse plug

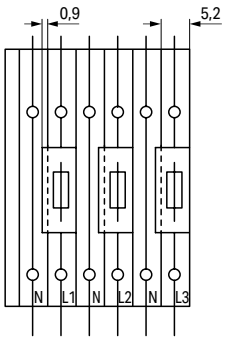
Using fuse plugs with rail-mount terminal blocks for control circuit protection is highly advantageous because the function and wiring levels are separated:
- No additional cost for assembly and wiring
- No risk of accidental contact with live parts when disconnecting the fuse plug
- The fuse plug is completely separated from the carrier terminal block when replacing a fuse – away from current carrying parts
- The fuse plug can be removed by service personnel
- No unintentional reclosing of the circuit by another person
- Quickly exchange a fuse by using a prepared "stand-by plug"

Fuse plug features for quick and safe applications:
- Optional LED indicates blown fuse
- Top-of-unit marking slot provides clear carrier terminal block identification
- Two test slots with touch contacts
- Terminal blocks/plugs provide high-density wiring in a width of just 5.2/6.1 mm
- May be used as a disconnect plug in combination with a shorting link

Glass cartridge fuses 5 x 20

Series Item No.	Overload and short circuit protection		Short circuit protection only	
	Individual argmt.	Group argmt.	Individual argmt.	Group argmt.
	Fuse terminal blocks			
2004-911 2004-911/….-….	1.6 W	1.6 W	2.5 W	2.5 W

When selecting glass cartridge fuses, make sure that the maximum power loss listed below is not exceeded. The power loss is determined according to IEC or EN 60947-7-3/VDE 0611-6 at 23°C. The temperature rise of the terminal blocks must be checked according to their application and mounting. Higher ambient temperatures represent an additional impact on fuse cartridges. Therefore, in such applications, the rated current must be reduced if necessary. More details are available from the manufacturers.



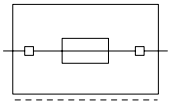
Open side of terminal block left

Please note:
The extra width of the plug (6.1 mm compared to 5.2 mm for carrier terminal blocks) must be compensated for with intermediate plates (1 mm) when building an assembly of carrier terminal blocks equipped with fuse plugs.

Fuse Plug TOPJOB® S on Carrier Terminal Block 6 (10) mm²
2006 Series

1

Technical Data
800 V / I_N 10 A
Plug width: 7.4 mm / 0.291 inch



Fuse plug with pull-tab
Electrical ratings are given by the fuse.

for 5 x 20 mm glass cartridge fuse

Color	Item No.	Pack. Unit
gray	2006-911	25

for 5 x 30 mm glass cartridge fuse

Color	Item No.	Pack. Unit
gray	2006-921	25

for ¼" x 1¼" glass cartridge fuse

Color	Item No.	Pack. Unit
gray	2006-931	25

Accessories; item-specific
End and intermediate plate; 1 mm thick

orange	2006-1692	100 (25)
gray	2006-1691	100 (25)

Accessories; for fuse plugs

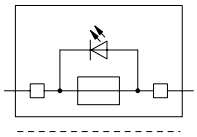
End plate for fuse terminal blocks; 2 mm thick

orange	2006-992	100 (25)
gray	2006-991	100 (25)

2-conductor carrier terminal block;
0.5 … 6 (10) mm² / 20 … 8 AWG
Terminal block width: 7.5 mm / 0.295 inch

gray	2006-1661	25
blue	2006-1664	25

Technical Data
800 V / I_N 10 A
Plug width: 7.4 mm / 0.291 inch



Fuse plug with pull-tab; with LED; gray
Electrical ratings are given by the fuse and blown fuse indication. Leakage current in case of a blown fuse: LED 2 mA

for 5 x 20 mm glass cartridge fuse

	Item No.	Pack. Unit
12 … 30 V	2006-911/1000-541	25
30 … 65 V	2006-911/1000-542	25
120 V	2006-911/1000-867	25
230 V	2006-911/1000-836	25

for 5 x 30 mm glass cartridge fuse

	Item No.	Pack. Unit
12 … 30 V	2006-921/1000-541	25
30 … 65 V	2006-921/1000-542	25
120 V	2006-921/1000-867	25
230 V	2006-921/1000-836	25
380 … 500 V	2006-921/1000-859	25

for ¼" x 1¼" glass cartridge fuse

	Item No.	Pack. Unit
12 … 30 V	2006-931/1000-541	25
30 … 65 V	2006-931/1000-542	25
120 V	2006-931/1000-867	25
230 V	2006-931/1000-836	25
380 … 500 V	2006-931/1000-859	25

Accessories; item-specific
End and intermediate plate; 1 mm thick

orange	2006-1692	100 (25)
gray	2006-1691	100 (25)

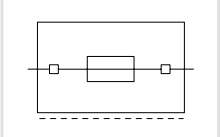
Shorting link; 5 x 20 mm; allows the fuse plug to be used as a disconnect plug

I_N 6.3 A	281-503	250 (25)

WMB marking card; white; 10 strips with 10 markers/card; 5 … 5.2 mm stretchable

plain	793-5501	5

Technical Data
800 V / I_N 10 A
Plug width: 10.4 mm / 0.409 inch



Fuse plug with pull-tab
Electrical ratings are given by the fuse.

for ¼" x 1¼" glass cartridge fuse

Color	Item No.	Pack. Unit
gray	2006-931/099-000	25

Accessories; item-specific
Intermediate plate; 2.9 mm thick

orange	2006-1696	100 (25)
gray	2006-1695	100 (25)

Appropriate marking systems: WMB/Marking strips

Screwless end stop; for DIN-35 rail; 6 mm wide

gray	249-116	100 (25)

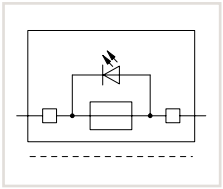
Screwless end stop; for DIN-35 rail; 10 mm wide

gray	249-117	50 (25)

Technical Data

800 V / I_N 10 A

Plug width: 10.4 mm / 0.409 inch



Fuse plug with pull-tab; with LED; gray
Electrical ratings are given by the fuse and blown fuse indication. Leakage current in case of a blown fuse: LED 2 mA
for ¼" x 1¼" glass cartridge fuse

	Item No.	Pack. Unit
◯ 12 … 30 V	2006-931/1099-541	25
◯ 30 … 65 V	2006-931/1099-542	25
◯ 120 V	2006-931/1099-867	25
◯ 230 V	2006-931/1099-836	25
◯ 380 … 500 V	2006-931/1099-859	25

Accessories; item-specific

Intermediate plate; 2.9 mm thick

	orange	2006-1696	100 (25)
	gray	2006-1695	100 (25)

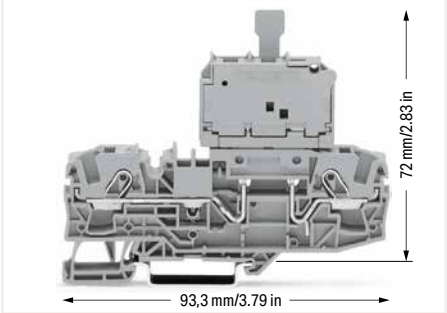
Approvals and corresponding ratings, visit www.wago.com

Glass cartridge fuses

Series Item No.		Overload and short circuit protection		Short circuit protection only	
		Individual argmt.	Group argmt.	Individual argmt.	Group argmt.
Fused disconnect terminal blocks					
2006-911	7.5	1.6 W	1.6 W	2.5 W	2.5 W
2006-921	7.5	1.6 W	1.6 W	2.5 W	2.5 W
2006-931	7.5	1.6 W	1.6 W	2.5 W	2.5 W
2006-931 /099-…	10.4	2.5 W	2.5 W	2.5 W	2.5 W
2006-931 /1099-…	10.4	2.5 W	2.5 W	2.5 W	2.5 W

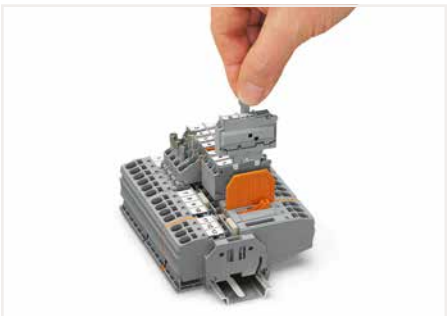
Using fuse plugs with rail-mount terminal blocks for control circuit protection is highly advantageous because the function and wiring levels are separated:
- No additional cost for assembly and wiring
- No risk of accidental contact with live parts when disconnecting the fuse plug
- The fuse plug is completely separated from the carrier terminal block when replacing a fuse – away from current carrying parts
- The fuse plug can be removed by service personnel
- No unintentional reclosing of the circuit by another person
- Quickly exchange a fuse by using a prepared "stand-by plug"

Fuse plug features for quick and safe applications:
- Optional LED indicates blown fuse
- Top-of-unit marking slot provides clear carrier terminal block identification
- Two test slots with touch contacts
- Terminal blocks/plugs provide high-density wiring in a width of just 7.5/7.4 (10.4) mm
- May be used as a disconnect plug in combination with a shorting link

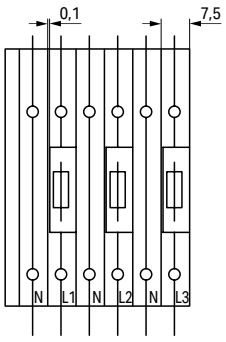


Fuse plug dimensions

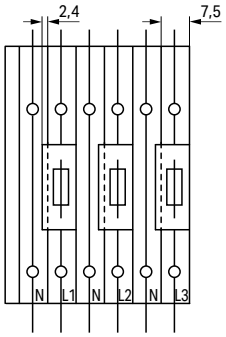
Pivoting fuse holder with spare fuse holder



The end plate ensures that the fuse can only be removed when the fuse plug is pulled out.



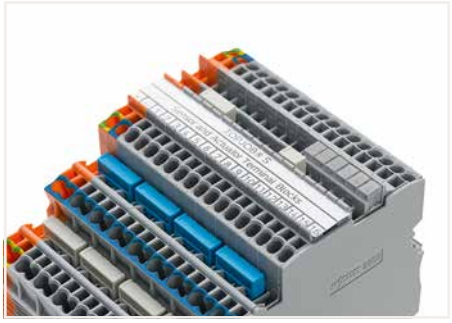
Open side of terminal block left



Open side of terminal block left

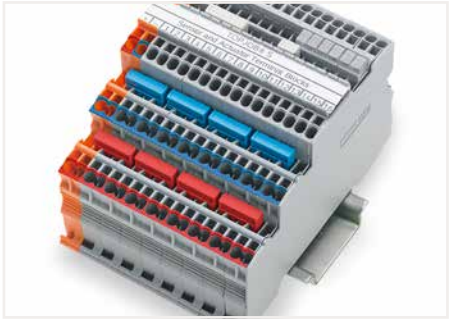
When using 10.4 mm wide plugs, please note:
The extra width of the plug (10.4 mm compared to 7.5 mm for carrier terminal blocks) must be compensated for with intermediate plates (2.9 mm) when building an assembly of carrier terminal blocks equipped with fuse plugs.

Sensor Terminal Blocks and Actuator Terminal Blocks TOPJOB® S
2000 Series
Description and Installation



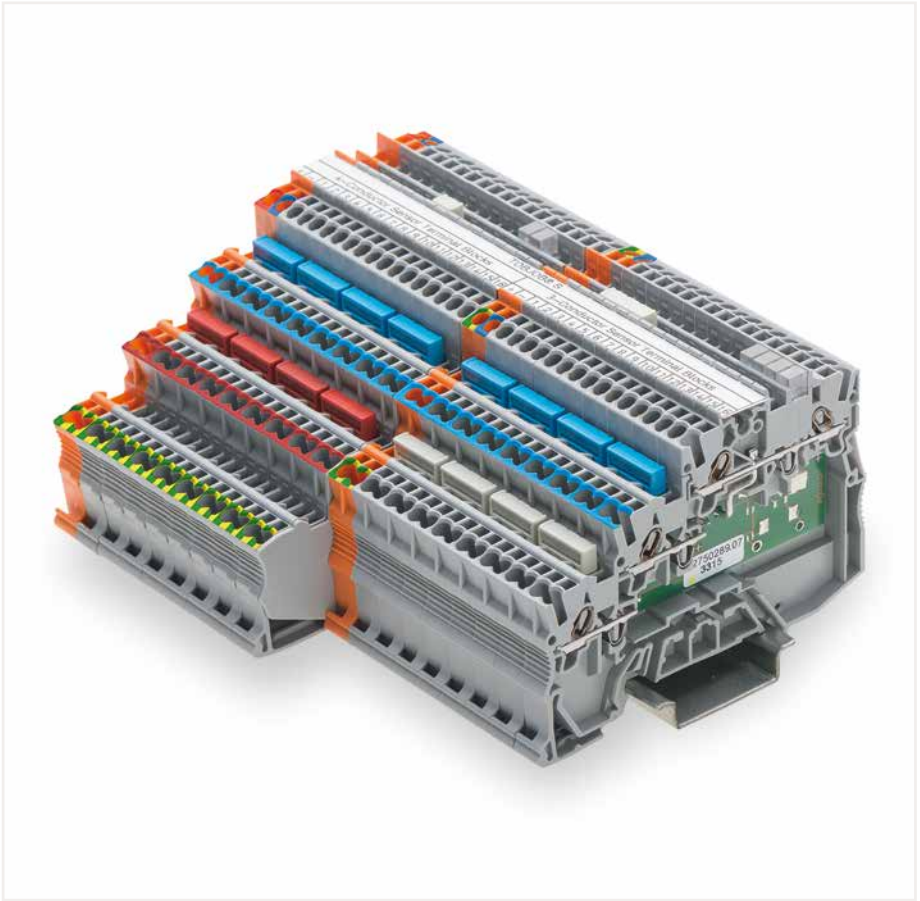
Commoning (signal level):
Commoning the signal level with push-in type jumper bars (2000 Series). Models with an LED can only be commoned in one jumper slot.
Test Plug Adapters can be used in all jumper slots.

Upper level: two independent signal pathways

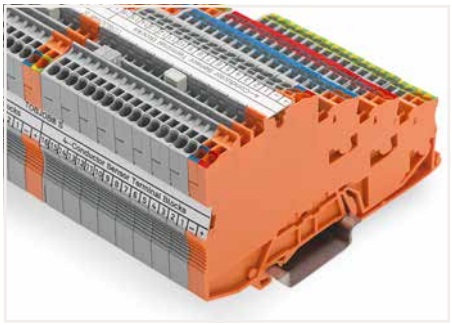


Commoning (potential level):
Commoning potential levels via push-in type jumper bars (2000 Series).

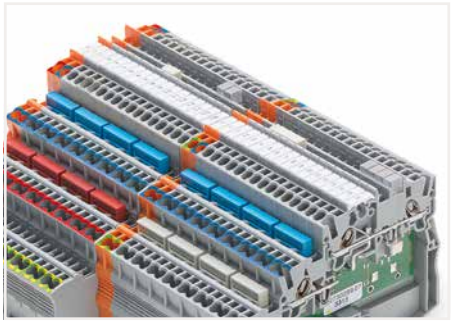
Power supply:
Orange supply terminal block of same profile from both the cabinet and sensor sides



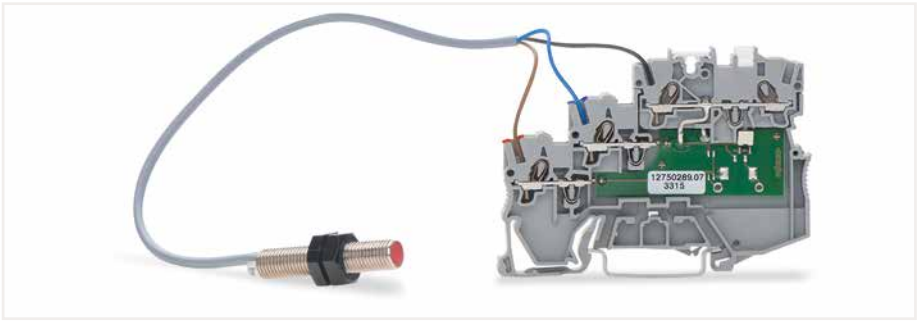
Terminal block assembly with 4-conductor sensor terminal blocks and 3-conductor actuator terminal blocks



Marking:
Marking strips (2009-110) – from the top or the side



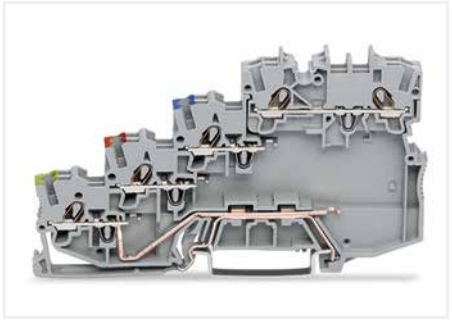
Marking:
3.5 mm WMB markers (793-35xx) from the top or the side – additional marking option via marker carrier



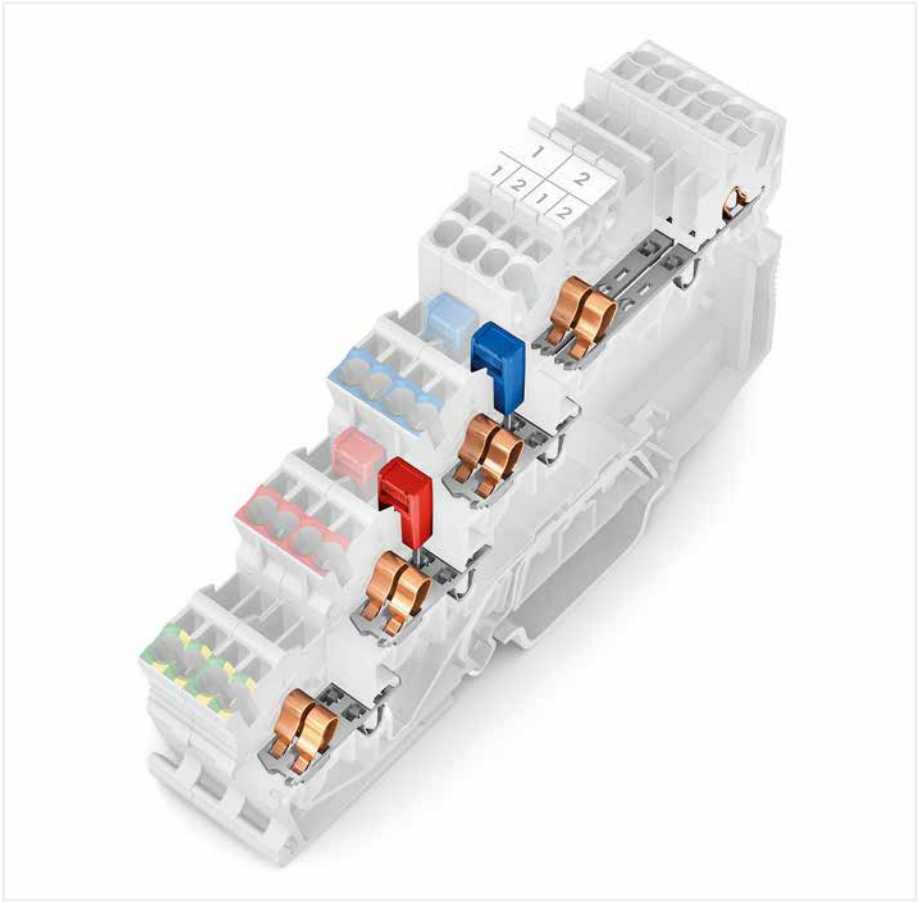
3-conductor sensor LED terminal block with a connected sensor

Commoning (potential level):
Continuous commoning in the potential levels via push-in type jumper bars for even pole numbers (2000 Series)

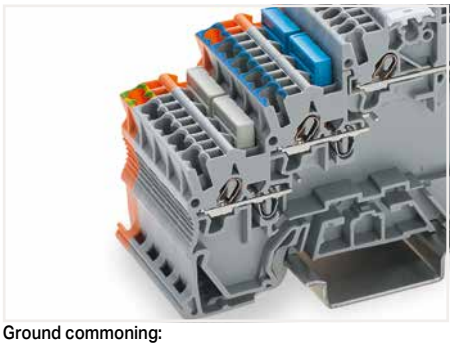
Potential levels: two adjacent commoning options on a current bar



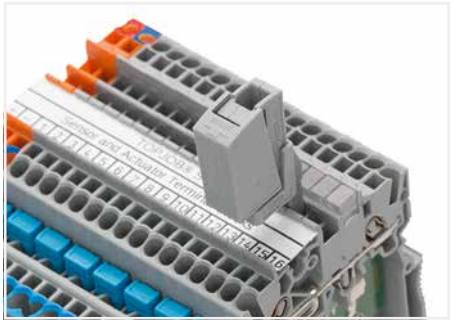
4-conductor sensor terminal block with ground contact



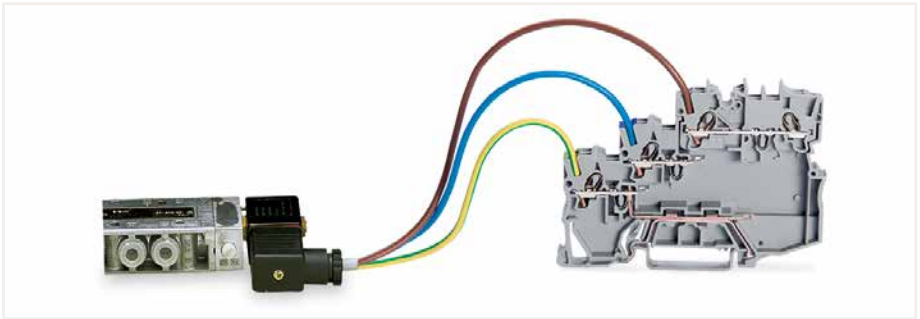
Upper level: two independent signal pathways, in 3.5 mm spacing per pole, with a dual jumper slot
Lower levels: two interconnected potential clamping units, with a single jumper slot, can be commoned in both directions



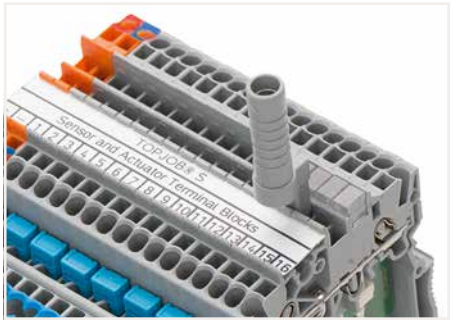
Ground commoning:
For sensor and actuator terminal blocks without ground connection to the DIN-rail, the ground connection can be performed by commoning to the terminal block with a ground foot.



Testing via testing tap (2009-182) (up to max. 42 V).



3-conductor actuator LED terminal block with a connected actuator

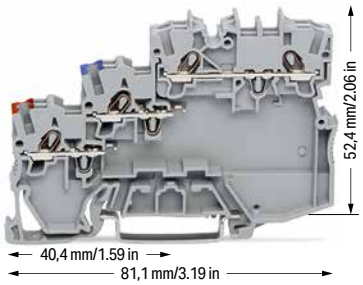


Testing via test plug adapter (2009-174) (up to max. 42 V).

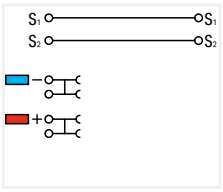
3-Conductor Sensor Terminal Block TOPJOB® S
1 (1.5) mm²; 2000 Series

1

Technical Data	
0.14 … 1 (1.5) mm² ❶	24 … 16 AWG
250 V/4 kV/3 ❷	300 V, 10 A
I_N 13.5 A	
Terminal block width: 7 mm / 0.276 inch ❸	
9 … 11 mm / 0.35 … 0.43 inch	



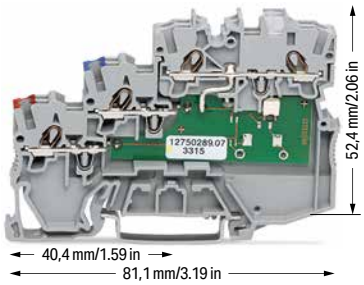
2000-5311



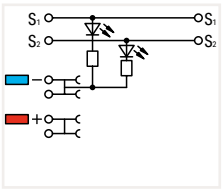
3-conductor sensor terminal block

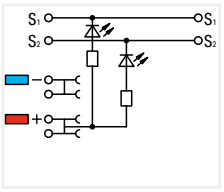
Color	Item No.	Pack. Unit
gray	2000-5311	50

Technical Data	
0.14 … 1 (1.5) mm² ❶	24 … 16 AWG
24 VDC	24 VDC
I_N 13.5 A	
Terminal block width: 7 mm / 0.276 inch ❸	
9 … 11 mm / 0.35 … 0.43 inch	



2000-5311/1102-950 2000-5311/1101-951



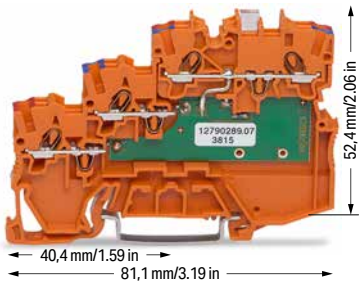


3-conductor sensor terminal block; yellow LED; for PNP (high-side) switching sensors

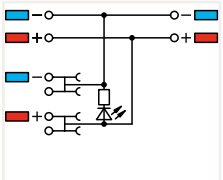
Color	Item No.	Pack. Unit
gray	2000-5311/1102-950	50

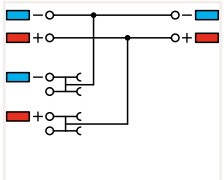
3-conductor sensor terminal block; yellow LED; for NPN (low-side) switching sensors

gray	2000-5311/1101-951	50



2000-5372/1102-953 2000-5372



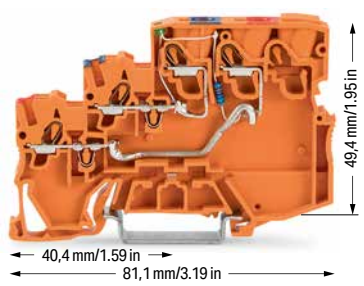


3-conductor sensor LED supply terminal block; green LED; 24 VDC

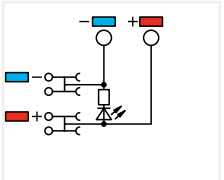
Color	Item No.	Pack. Unit
orange	2000-5372/1102-953	15

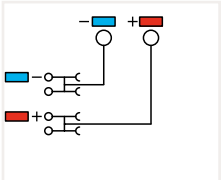
3-conductor sensor supply terminal block; max. 250 V; internally commoned

orange	2000-5372	15



2000-5352/1102-953 2000-5352





3-conductor sensor LED supply terminal block; green LED; 24 VDC control panel side: 2.5 (4) mm²; max. 28 A

Color	Item No.	Pack. Unit
orange	2000-5352/1102-953	50

3-conductor sensor supply terminal block; max. 250 V; control panel side: 2.5 (4) mm²; max. 28 A

orange	2000-5352	50

❶ Conductor range: 0.14 … 1.5 mm² "s+f-st"; Push-in termination: 0.5 … 1.5 mm² "s" and 0.5 … 0.75 mm² "insulated ferrules; 12 mm" Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 250 V = rated voltage
4 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

❸ 3.5 mm spacing per signal (2 x 3.5 mm = 7 mm)
Note:
The double spacing per pole of this terminal block series maximizes connectivity. For example, **ten** sensors may be connected using only **five** sensor terminal blocks plus a power supply terminal block.

Please observe the application notes:
Jumpers, from page 152

Approvals and corresponding ratings, visit www.wago.com

Accessories; for 3-conductor terminal blocks

Appropriate marking systems:
WMB/WMB Inline/Marking strips

End and intermediate plate; 1 mm thick; for 3-conductor terminal blocks

gray	2000-5391	100 (25)

Push-in type jumper bar; insulated; I_N 14 A; light gray

2-way	2000-402	25
3-way	2000-403	25
4-way	2000-404	25
5-way	2000-405	25
6-way	2000-406	25
7-way	2000-407	25
8-way	2000-408	25
9-way	2000-409	25
10-way	2000-410	25

Colored push-in type jumper bar

red	.../000-005
blue	.../000-006

Push-in type jumper bar; insulated; I_N 14 A; light gray

1 to 3	2000-433	25
1 to 4	2000-434	25
1 to 5	2000-435	25
1 to 6	2000-436	25
1 to 7	2000-437	25
1 to 8	2000-438	25
1 to 9	2000-439	25
1 to 10	2000-440	25

Double-deck marker carrier; pivoting

gray	2000-121	50 (25)

Marking strip; plain; 11 mm wide; 50 m reel

white	2009-110	1

WMB marking card; white; 10 strips with 10 markers/card; for 3.5 mm terminal block width

plain	793-3501	5

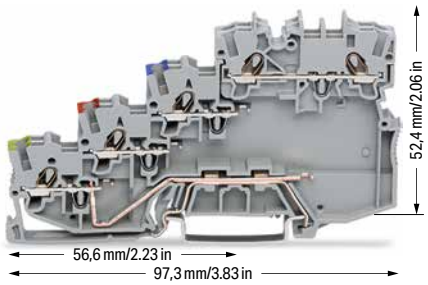
Operating tool with a partially insulated shaft; type 1; (2.5 x 0.4) mm blade

	210-719	1

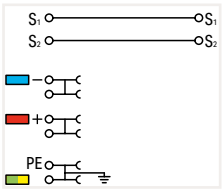
PUSH-IN CAGE CLAMP®

4-Conductor Sensor Terminal Block TOPJOB® S
1 (1.5) mm²; 2000 Series

Technical Data	
0.14 … 1 (1.5) mm² ❶	24 … 16 AWG
250 V/4 kV/3 ❷	300 V, 10 A
I_N 13.5 A	
Terminal block width: 7 mm / 0.276 inch ❸	
9 … 11 mm / 0.35 … 0.43 inch	



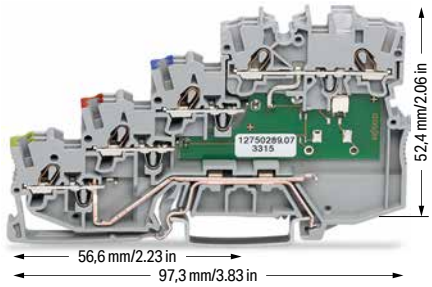
2000-5417



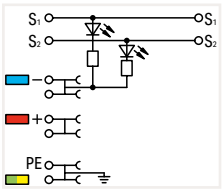
4-conductor sensor terminal block; with ground connection

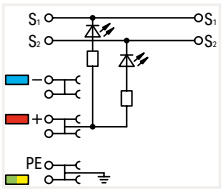
Color	Item No.	Pack. Unit
gray	2000-5417	50

Technical Data	
0.14 … 1 (1.5) mm² ❶	24 … 16 AWG
24 VDC	24 VDC
I_N 13.5 A	
Terminal block width: 7 mm / 0.276 inch ❸	
9 … 11 mm / 0.35 … 0.43 inch	



2000-5417/1102-950 2000-5417/1101-951



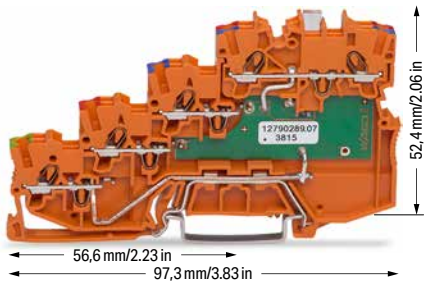


4-conductor sensor LED terminal block; yellow LED; for PNP (high-side) switching sensors; with ground connection

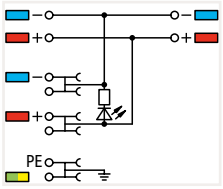
Color	Item No.	Pack. Unit
gray	2000-5417/1102-950	50

4-conductor sensor terminal block; yellow LED; for NPN (low-side) switching sensors; with ground connection

Color	Item No.	Pack. Unit
gray	2000-5417/1101-951	50



2000-5477/1102-953 2000-5477



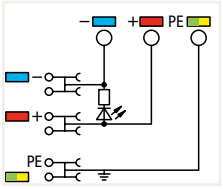
4-conductor sensor LED supply terminal block; green LED; 24 VDC; with ground connection

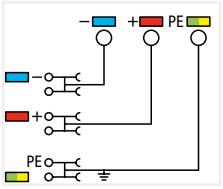
Color	Item No.	Pack. Unit
orange	2000-5477/1102-953	15

4-conductor sensor supply terminal block; max. 250 V; internally commoned; with ground connection

orange	2000-5477	15

2000-5457/1102-953 2000-5457





3-conductor sensor LED supply terminal block; green LED; 24 VDC control panel side: 2.5 (4) mm²; max. 28 A

Color	Item No.	Pack. Unit
orange	2000-5457/1102-953	15

4-conductor sensor supply terminal block; max. 250 V; with ground connection; control panel side: 2.5 (4) mm²; max. 28 A

orange	2000-5457	15

❶ Conductor range: 0.14 … 1.5 mm² "s+f-st"; Push-in termination: 0.5 … 1.5 mm² "s" and 0.5 … 0.75 mm² "insulated ferrules; 12 mm" Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 250 V = rated voltage
4 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

❸ 3.5 mm spacing per signal (2 x 3.5 mm = 7 mm)
Note:
The double spacing per pole of this terminal block series maximizes connectivity. For example, **ten** sensors may be connected using only **five** sensor terminal blocks plus a power supply terminal block.

Please observe the application notes:
Jumpers, from page 152

Approvals and corresponding ratings, visit www.wago.com

Accessories; for 4-conductor terminal blocks

Appropriate marking systems:
WMB/WMB Inline/Marking strips

End and intermediate plate; 1 mm thick; for 4-conductor terminal blocks

gray	2000-5491	100 (25)

Push-in type jumper bar; insulated; I_N 14 A; light gray

2-way	2000-402	25
3-way	2000-403	25
4-way	2000-404	25
5-way	2000-405	25
6-way	2000-406	25
7-way	2000-407	25
8-way	2000-408	25
9-way	2000-409	25
10-way	2000-410	25

Colored push-in type jumper bar

red	.../000-005
blue	.../000-006
yellow-green	.../000-018

Push-in type jumper bar; insulated; I_N 14 A; light gray

1 to 3	2000-433	25
1 to 4	2000-434	25
1 to 5	2000-435	25
1 to 6	2000-436	25
1 to 7	2000-437	25
1 to 8	2000-438	25
1 to 9	2000-439	25
1 to 10	2000-440	25

Double-deck marker carrier; pivoting

gray	2000-121	50 (25)

Marking strip; plain; 11 mm wide; 50 m reel

white	2009-110	1

WMB marking card; white; 10 strips with 10 markers/card; for 3.5 mm terminal block width

plain	793-3501	5

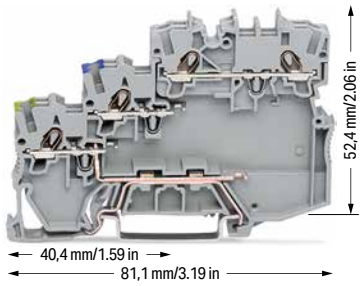
Operating tool with a partially insulated shaft; type 1; (2.5 x 0.4) mm blade

	210-719	1

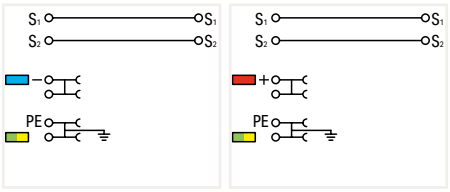
3-Conductor Actuator Terminal Block TOPJOB® S
1 (1.5) mm²; 2000 Series

1

Technical Data	
0.14 … 1 (1.5) mm² ❶	24 … 16 AWG
250 V/4 kV/3 ❷	300 V, 10 A
I_N 13.5 A	
Terminal block width: 7 mm / 0.276 inch ❸	
9 … 11 mm / 0.35 … 0.43 inch	



2000-5317/102-000 2000-5317/101-000



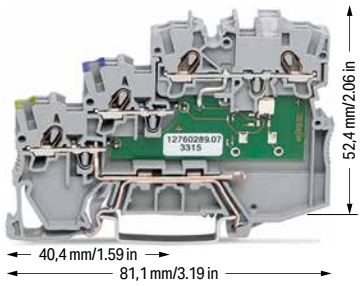
3-conductor actuator terminal block; for PNP (high-side) switching actuators; with ground connection

Color	Item No.	Pack. Unit
gray	2000-5317/102-000	50

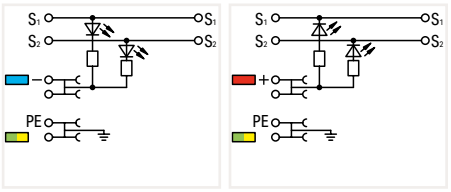
3-conductor actuator terminal block; for NPN (low-side) switching actuators; with ground connection

Color	Item No.	Pack. Unit
gray	2000-5317/101-000	50

Technical Data	
0.14 … 1 (1.5) mm² ❶	24 … 16 AWG
24 VDC	24 VDC
I_N 13.5 A	
Terminal block width: 7 mm / 0.276 inch ❸	
9 … 11 mm / 0.35 … 0.43 inch	



2000-5317/1102-950 2000-5317/1101-951

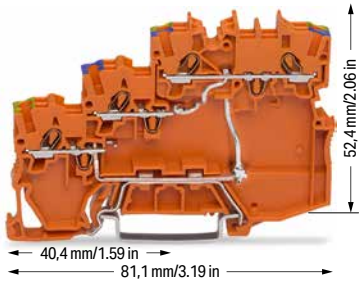


3-conductor actuator terminal block; yellow LED; for PNP (high-side) switching actuators; with ground connection

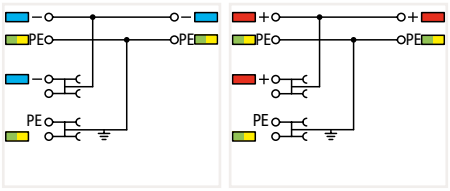
Color	Item No.	Pack. Unit
gray	2000-5317/1102-950	50

3-conductor actuator terminal block; yellow LED; for NPN (low-side) switching actuators; with ground connection

Color	Item No.	Pack. Unit
gray	2000-5317/1101-951	50



2000-5377/102-000 2000-5377/101-000

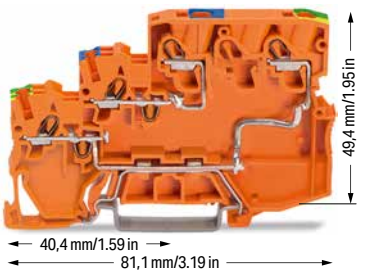


3-conductor actuator supply terminal block; max. 250 V; for PNP (high-side) switching actuators; with ground connection; internally commoned

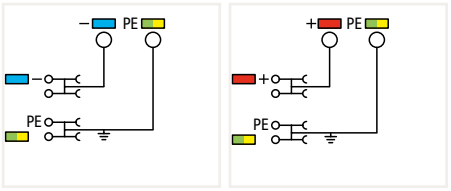
Color	Item No.	Pack. Unit
orange	2000-5377/102-000	15

3-conductor actuator supply terminal block; max. 250 V; for NPN (low-side) switching actuators; with ground connection

Color	Item No.	Pack. Unit
orange	2000-5377/101-000	15



2000-5357/102-000 2000-5357/101-000



3-conductor actuator supply terminal block; max. 250 V; control panel side: 2.5 (4) mm²; max. 28 A; for PNP (high-side) switching actuators; with ground connection

Color	Item No.	Pack. Unit
orange	2000-5357/102-000	15

3-conductor actuator supply terminal block; max. 250 V; control panel side: 2.5 (4) mm²; max. 28 A; for NPN (low-side) switching actuators; with ground connection

Color	Item No.	Pack. Unit
orange	2000-5357/101-000	15

❶ Conductor range: 0.14 … 1.5 mm² "s+f-st"; Push-in termination: 0.5 … 1.5 mm² "s" and 0.5 … 0.75 mm² "insulated ferrules; 12 mm" Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 250 V = rated voltage
4 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

❸ 3.5 mm spacing per signal (2 x 3.5 mm = 7 mm)
Note:
The double spacing per pole of this terminal block series maximizes connectivity. For example, **ten** sensors may be connected using only **five** sensor terminal blocks plus a power supply terminal block.

Please observe the application notes:
Jumpers, from page 152

Approvals and corresponding ratings, visit www.wago.com

Accessories; for 3-conductor terminal blocks

Appropriate marking systems:
WMB/WMB Inline/Marking strips

End and intermediate plate; 1 mm thick; for 3-conductor terminal blocks

gray	2000-5391	100 (25)

Push-in type jumper bar; insulated; I_N 14 A; light gray

2-way	2000-402	25
3-way	2000-403	25
4-way	2000-404	25
5-way	2000-405	25
6-way	2000-406	25
7-way	2000-407	25
8-way	2000-408	25
9-way	2000-409	25
10-way	2000-410	25

Colored push-in type jumper bar

red	.../000-005
blue	.../000-006
yellow-green	.../000-018

Push-in type jumper bar; insulated; I_N 14 A; light gray

1 to 3	2000-433	25
1 to 4	2000-434	25
1 to 5	2000-435	25
1 to 6	2000-436	25
1 to 7	2000-437	25
1 to 8	2000-438	25
1 to 9	2000-439	25
1 to 10	2000-440	25

Double-deck marker carrier; pivoting

gray	2000-121	50 (25)

Marking strip; plain; 11 mm wide; 50 m reel

white	2009-110	1

WMB marking card; white; 10 strips with 10 markers/card; for 3.5 mm terminal block width

plain	793-3501	5

Operating tool with a partially insulated shaft; type 1; (2.5 x 0.4) mm blade

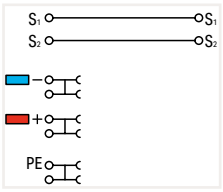
	210-719	1

PUSH-IN CAGE CLAMP®

4-Conductor Sensor Terminal Block and 3-Conductor Actuator Terminal Block TOPJOB® S
1 (1.5) mm²; 2000 Series

Technical Data	
0.14 … 1 (1.5) mm² ❶	24 … 16 AWG
250 V/4 kV/3 ❷	300 V, 10 A
I_N 13.5 A	
Terminal block width: 7 mm / 0.276 inch ❸	
9 … 11 mm / 0.35 … 0.43 inch	

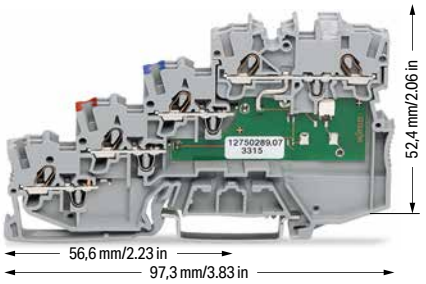
2000-5410



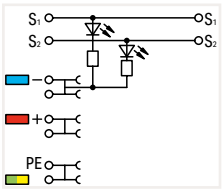
4-conductor sensor terminal block; with ground via push-in type jumper bar

Color	Item No.	Pack. Unit
gray	2000-5410	50

Technical Data	
0.14 … 1 (1.5) mm² ❶	24 … 16 AWG
24 VDC	24 VDC
I_N 13.5 A	
Terminal block width: 7 mm / 0.276 inch ❸	
9 … 11 mm / 0.35 … 0.43 inch	



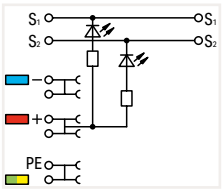
2000-5410/1102-950



4-conductor sensor LED terminal block; yellow LED; for PNP (high-side) switching sensors; with ground via push-in type jumper bar

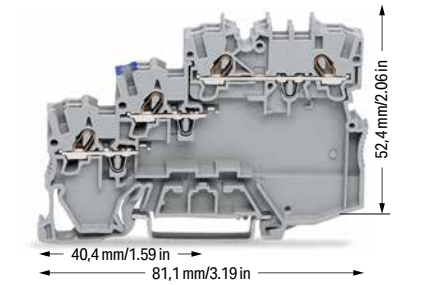
Color	Item No.	Pack. Unit
gray	2000-5410/1102-950	50

2000-5410/1101-951

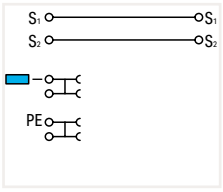


4-conductor sensor LED terminal block; yellow LED; for NPN (low-side) switching sensors; with ground via push-in type jumper bar

Color	Item No.	Pack. Unit
gray	2000-5410/1101-951	50



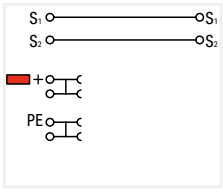
2000-5310/102-000



3-conductor actuator terminal block; for PNP (high-side) switching actuators; with ground via push-in type jumper bar

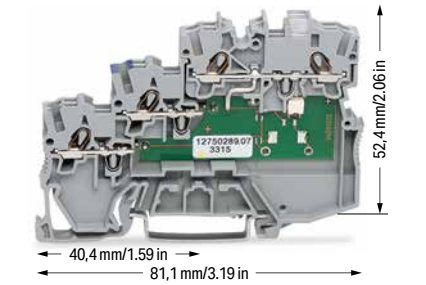
Color	Item No.	Pack. Unit
gray	2000-5310/102-000	50

2000-5310/101-000

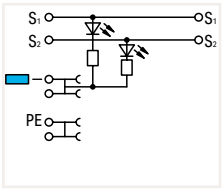


3-conductor actuator terminal block; for NPN (low-side) switching actuators; with ground via push-in type jumper bar

Color	Item No.	Pack. Unit
gray	2000-5310/101-000	50



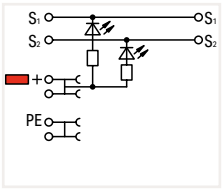
2000-5310/1102-950



3-conductor actuator terminal block; yellow LED; for PNP (high-side) switching actuators; with ground via push-in type jumper bar

Color	Item No.	Pack. Unit
gray	2000-5310/1102-950	50

2000-5310/1101-951



3-conductor actuator terminal block; yellow LED; for NPN (low-side) switching actuators; with ground via push-in type jumper bar

Color	Item No.	Pack. Unit
gray	2000-5310/1101-951	50

❶ Conductor range: 0.14 … 1.5 mm² "s+f-st"; Push-in termination: 0.5 … 1.5 mm² "s" and 0.5 … 0.75 mm² "insulated ferrules; 12 mm" Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 250 V = rated voltage
4 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

❸ 3.5 mm spacing per signal (2 x 3.5 mm = 7 mm)
Note:
The double spacing per pole of this terminal block series maximizes connectivity. For example, **ten** sensors may be connected using only **five** sensor terminal blocks plus a power supply terminal block.

Please observe the application notes:
Jumpers, from page 152

Approvals and corresponding ratings, visit www.wago.com

Accessories; for 4-conductor terminal blocks

Appropriate marking systems:
WMB/WMB Inline/Marking strips

End and intermediate plate; 1 mm thick; for 4-conductor terminal blocks

gray	2000-5491	100 (25)

Push-in type jumper bar; insulated; I_N 14 A; light gray

2-way	2000-402	25
3-way	2000-403	25
4-way	2000-404	25
5-way	2000-405	25
6-way	2000-406	25
7-way	2000-407	25
8-way	2000-408	25
9-way	2000-409	25
10-way	2000-410	25

Colored push-in type jumper bar

red	.../000-005
blue	.../000-006
yellow-green	.../000-018

Push-in type jumper bar; insulated; I_N 14 A; light gray

1 to 3	2000-433	25
1 to 4	2000-434	25
1 to 5	2000-435	25
1 to 6	2000-436	25
1 to 7	2000-437	25
1 to 8	2000-438	25
1 to 9	2000-439	25
1 to 10	2000-440	25

Double-deck marker carrier; pivoting

gray	2000-121	50 (25)

Marking strip; plain; 11 mm wide; 50 m reel

white	2009-110	1

WMB marking card; white; 10 strips with 10 markers/card; for 3.5 mm terminal block width

plain	793-3501	5

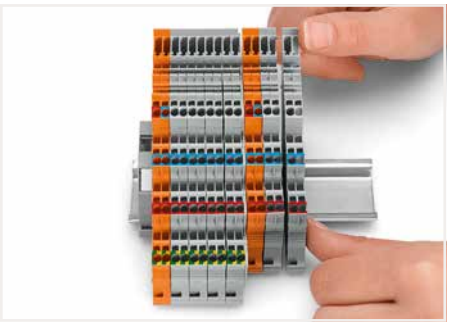
Operating tool with a partially insulated shaft; type 1; (2.5 x 0.4) mm blade

	210-719	1

PUSH-IN CAGE CLAMP®

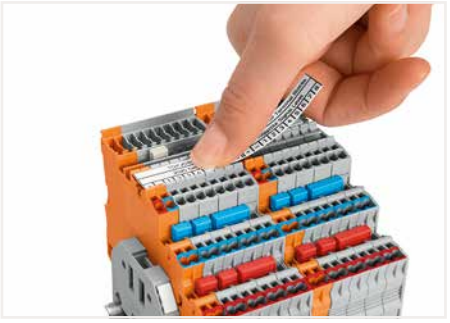
Sensor Terminal Blocks and Actuator Terminal Blocks TOPJOB® S; with Pluggable Signal Level 2020 Series

Description and Installation

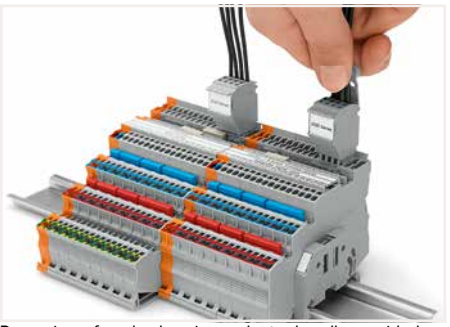


Snap individual terminal blocks onto the DIN-rail and slide together.

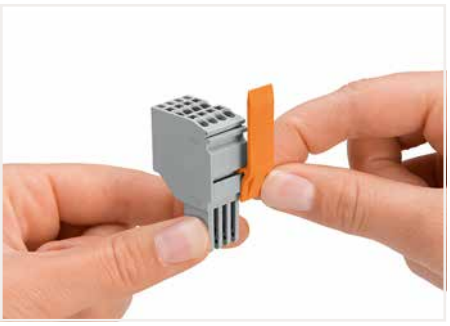
Separate terminal block assembly and slide individual terminal blocks laterally using an operating tool.



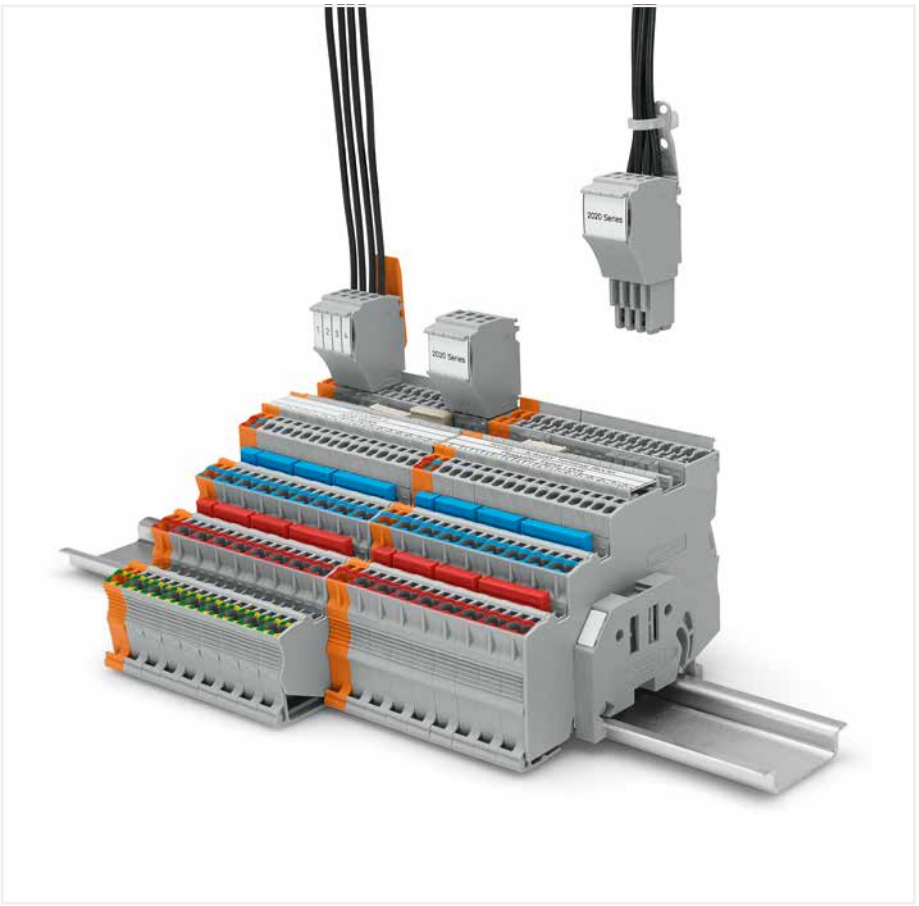
Labeling terminal blocks via marking strips (2009-110) or 3.5 mm wide WMB markers (793-35xx) – from the top or the side.



Removing a female plug via conductor bundle provided with strain relief plate.

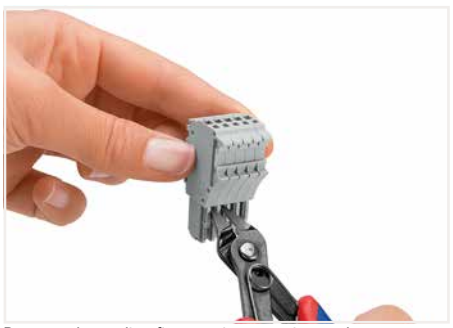


Slide the locking lever into position.



Testing via testing tap (2009-182) or test plug adapter (2009-174) (up to max. 42 V).

Insert coding pin into the corresponding slot and twist it off.

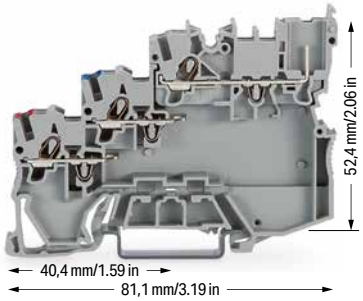


Remove the coding finger using a cutting tool.

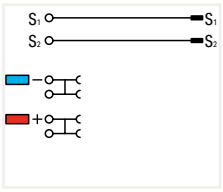
PUSH-IN CAGE CLAMP®

3-Conductor Sensor Terminal Block TOPJOB® S; with Pluggable Signal Level
1 (1.5) mm²; 2020 Series

Technical Data	
0.14 … 1 (1.5) mm² ❶	24 … 16 AWG
250 V/4 kV/3 ❷	300 V, 10 A
I_N 13.5 A	
Terminal block width: 7 mm / 0.276 inch ❸	
9 … 11 mm / 0.35 … 0.43 inch	



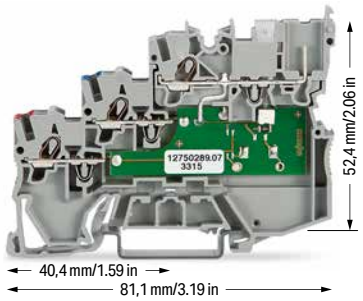
2020-5311



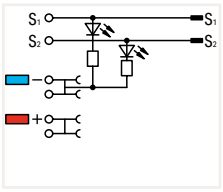
3-conductor sensor terminal block; with pluggable signal level

Color	Item No.	Pack. Unit
gray	2020-5311	50

Technical Data	
0.14 … 1 (1.5) mm² ❶	24 … 16 AWG
24 VDC	24 VDC
I_N 13.5 A	
Terminal block width: 7 mm / 0.276 inch ❸	
9 … 11 mm / 0.35 … 0.43 inch	



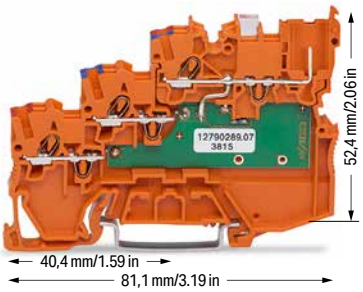
2020-5311/1102-950



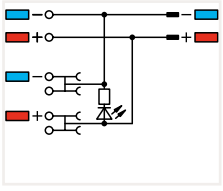
3-conductor sensor terminal block; yellow LED; for PNP (high-side) switching sensors; with pluggable signal level

Color	Item No.	Pack. Unit
gray	2020-5311/1102-950	50

Note:
According to EN 61984, pluggable connectors without a current interrupting capacity must not be mated or unmated when live or under load. An appropriate end plate must be applied to the carrier terminal blocks after each female plug.

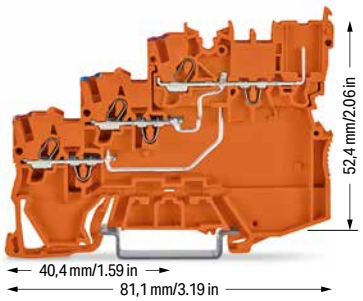


2020-5372/1102-953

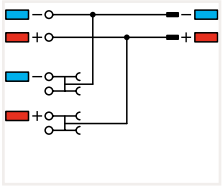


3-conductor sensor LED supply terminal block; green LED; 24 VDC; with pluggable signal level

Color	Item No.	Pack. Unit
orange	2020-5372/1102-953	15



2020-5372



3-conductor sensor supply terminal block; max. 250 V; internally commoned; with pluggable signal level

Color	Item No.	Pack. Unit
orange	2020-5372	50

❶ Conductor range: 0.14 … 1.5 mm² "s+f-st"; Push-in termination: 0.5 … 1.5 mm² "s" and 0.5 … 0.75 mm² "insulated ferrules; 12 mm" Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 250 V = rated voltage
4 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

❸ 3.5 mm spacing per signal (2 x 3.5 mm = 7 mm)
Note:
The double spacing per pole of this terminal block series maximizes connectivity. For example, **ten** sensors may be connected using only **five** sensor terminal blocks plus a power supply terminal block.

Please observe the application notes:
Jumpers, from page 152

Approvals and corresponding ratings, visit www.wago.com

Accessories; for 3-conductor terminal blocks

Appropriate marking systems:
WMB/WMB Inline/Marking strips

End and intermediate plate; 1 mm thick; for 3-conductor terminal blocks

gray	2020-5391	100 (25)

Push-in type jumper bar; insulated; I_N 14 A; light gray

2-way	2000-402	25
3-way	2000-403	25
4-way	2000-404	25
5-way	2000-405	25
6-way	2000-406	25
7-way	2000-407	25
8-way	2000-408	25
9-way	2000-409	25
10-way	2000-410	25

Colored push-in type jumper bar

red	.../000-005
blue	.../000-006

Push-in type jumper bar; insulated; I_N 14 A; light gray

1 to 3	2000-433	25
1 to 4	2000-434	25
1 to 5	2000-435	25
1 to 6	2000-436	25
1 to 7	2000-437	25
1 to 8	2000-438	25
1 to 9	2000-439	25
1 to 10	2000-440	25

Carrier with 6 coding pins; for coding female plugs

orange	2020-100	100 (25)

1-conductor female plug

gray	2020-102	100

2-conductor female plug

gray	2020-202	100

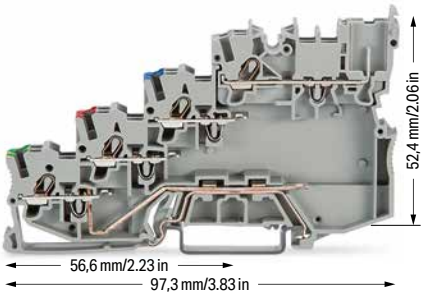
Test plug adapter; for 4 mm Ø test plug

gray	2009-174	100 (25)

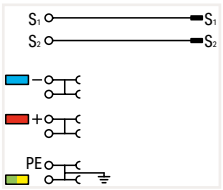
4-Conductor Sensor Terminal Block TOPJOB® S; with Pluggable Signal Level
1 (1.5) mm²; 2020 Series

1

Technical Data	
0.14 … 1 (1.5) mm² ❶	24 … 16 AWG
250 V/4 kV/3 ❷	300 V, 10 A
I_N 13.5 A	
Terminal block width: 7 mm / 0.276 inch ❸	
9 … 11 mm / 0.35 … 0.43 inch	



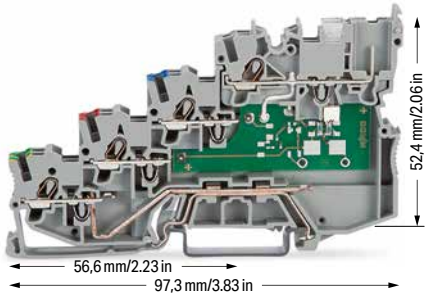
2020-5417



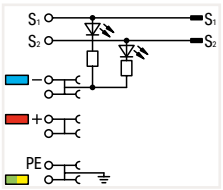
4-conductor sensor terminal block; with ground connection; with pluggable signal level

Color	Item No.	Pack. Unit
gray	2020-5417	50

Technical Data	
0.14 … 1 (1.5) mm² ❶	24 … 16 AWG
24 VDC	24 VDC
I_N 13.5 A	
Terminal block width: 7 mm / 0.276 inch ❸	
9 … 11 mm / 0.35 … 0.43 inch	



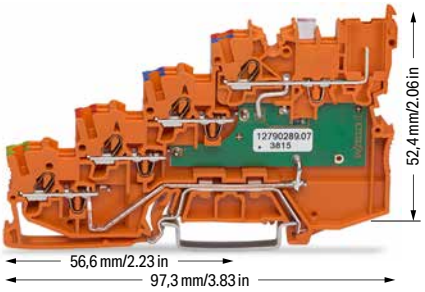
2020-5417/1102-950



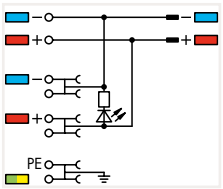
4-conductor sensor terminal block; yellow LED; for PNP (high-side) switching sensors; with ground connection; with pluggable signal level

Color	Item No.	Pack. Unit
gray	2020-5417/1102-950	50

Note:
According to EN 61984, pluggable connectors without a current interrupting capacity must not be mated or unmated when live or under load. An appropriate end plate must be applied to the carrier terminal blocks after each female plug.

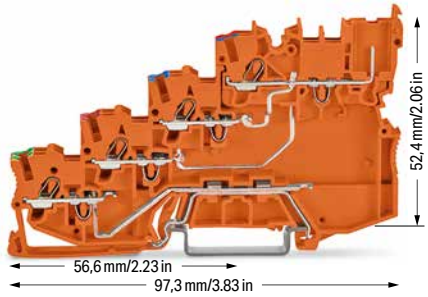


2020-5477/1102-953

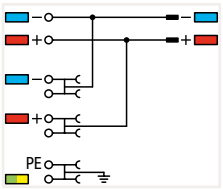


4-conductor sensor LED supply terminal block; green LED; 24 VDC; with ground connection; with pluggable signal level

Color	Item No.	Pack. Unit
orange	2020-5477/1102-953	15



2020-5477



4-conductor sensor supply terminal block; max. 250 V; internally commoned; with ground connection; with pluggable signal level

Color	Item No.	Pack. Unit
orange	2020-5477	50

❶ Conductor range: 0.14 … 1.5 mm² "s+f-st"; Push-in termination: 0.5 … 1.5 mm² "s" and 0.5 … 0.75 mm² "insulated ferrules; 12 mm" Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 250 V = rated voltage
4 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

❸ 3.5 mm spacing per signal (2 x 3.5 mm = 7 mm)
Note:
The double spacing per pole of this terminal block series maximizes connectivity. For example, **ten** sensors may be connected using only **five** sensor terminal blocks plus a power supply terminal block.

Please observe the application notes:
Jumpers, from page 152

Approvals and corresponding ratings, visit www.wago.com

Accessories; for 4-conductor terminal blocks

Appropriate marking systems:
WMB/WMB Inline/Marking strips

End and intermediate plate; 1 mm thick; for 4-conductor terminal blocks

gray	2020-5491	100 (25)

Push-in type jumper bar; insulated; I_N 14 A; light gray

2-way	2000-402	25
3-way	2000-403	25
4-way	2000-404	25
5-way	2000-405	25
6-way	2000-406	25
7-way	2000-407	25
8-way	2000-408	25
9-way	2000-409	25
10-way	2000-410	25

Colored push-in type jumper bar

red	.../000-005
blue	.../000-006
yellow-green	.../000-018

Push-in type jumper bar; insulated; I_N 14 A; light gray

1 to 3	2000-433	25
1 to 4	2000-434	25
1 to 5	2000-435	25
1 to 6	2000-436	25
1 to 7	2000-437	25
1 to 8	2000-438	25
1 to 9	2000-439	25
1 to 10	2000-440	25

Carrier with 6 coding pins; for coding female plugs

orange	2020-100	100 (25)

1-conductor female plug

gray	2020-102	100

2-conductor female plug

gray	2020-202	100

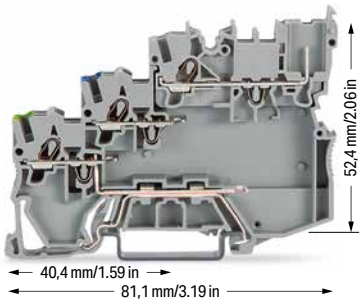
Test plug adapter; for 4 mm Ø test plug

gray	2009-174	100 (25)

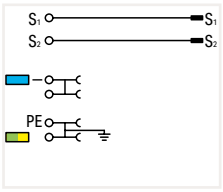
PUSH-IN CAGE CLAMP®

3-Conductor Actuator Terminal Block TOPJOB® S; with Pluggable Signal Level
1 (1.5) mm²; 2020 Series

Technical Data	
0.14 … 1 (1.5) mm² ❶	24 … 16 AWG
250 V/4 kV/3 ❷	300 V, 10 A
I_N 13.5 A	
Terminal block width: 7 mm / 0.276 inch ❸	
9 … 11 mm / 0.35 … 0.43 inch	



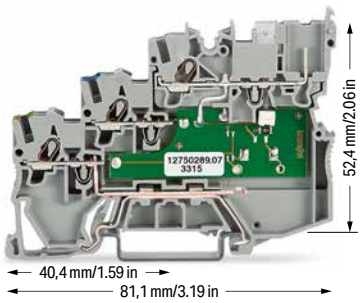
2020-5317/102-000



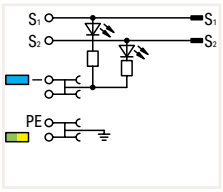
3-conductor actuator terminal block; for PNP (high-side) switching actuators; with ground connection; with pluggable signal level

Color	Item No.	Pack. Unit
gray	2020-5317/102-000	50

Technical Data	
0.14 … 1 (1.5) mm² ❶	24 … 16 AWG
24 VDC	24 VDC
I_N 13.5 A	
Terminal block width: 7 mm / 0.276 inch ❸	
9 … 11 mm / 0.35 … 0.43 inch	



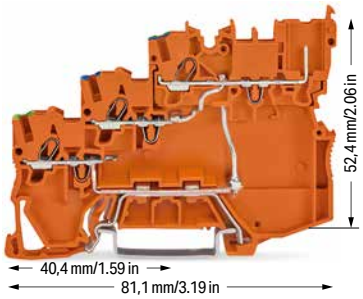
2020-5317/1102-950



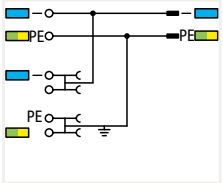
3-conductor actuator terminal block; yellow LED; for PNP (high-side) switching actuators; with ground connection; with pluggable signal level

Color	Item No.	Pack. Unit
gray	2020-5317/1102-950	50

Note:
According to EN 61984, pluggable connectors without a current interrupting capacity must not be mated or unmated when live or under load. An appropriate end plate must be applied to the carrier terminal blocks after each female plug.



2020-5377/102-000



3-conductor actuator supply terminal block; for PNP (high-side) switching actuators; with ground connection; internally commoned; with pluggable signal level

Color	Item No.	Pack. Unit
orange	2020-5377/102-000	15

❶ Conductor range: 0.14 … 1.5 mm² "s+f-st"; Push-in termination: 0.5 … 1.5 mm² "s" and 0.5 … 0.75 mm² "insulated ferrules; 12 mm" Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 250 V = rated voltage
4 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

❸ 3.5 mm spacing per signal (2 x 3.5 mm = 7 mm)
Note:
The double spacing per pole of this terminal block series maximizes connectivity. For example, **ten** sensors may be connected using only **five** sensor terminal blocks plus a power supply terminal block.

Please observe the application notes:
Jumpers, from page 152

Approvals and corresponding ratings, visit www.wago.com

Accessories; for 3-conductor terminal blocks

Appropriate marking systems:
WMB/WMB Inline/Marking strips

End and intermediate plate; 1 mm thick; for 3-conductor terminal blocks

gray	2020-5391	100 (25)

Push-in type jumper bar; insulated; I_N 14 A; light gray

2-way	2000-402	25
3-way	2000-403	25
4-way	2000-404	25
5-way	2000-405	25
6-way	2000-406	25
7-way	2000-407	25
8-way	2000-408	25
9-way	2000-409	25
10-way	2000-410	25

Colored push-in type jumper bar

red	.../000-005
blue	.../000-006
yellow-green	.../000-018

Push-in type jumper bar; insulated; I_N 14 A; light gray

1 to 3	2000-433	25
1 to 4	2000-434	25
1 to 5	2000-435	25
1 to 6	2000-436	25
1 to 7	2000-437	25
1 to 8	2000-438	25
1 to 9	2000-439	25
1 to 10	2000-440	25

Carrier with 6 coding pins; for coding female plugs

orange	2020-100	100 (25)

1-conductor female plug

gray	2020-102	100

2-conductor female plug

gray	2020-202	100

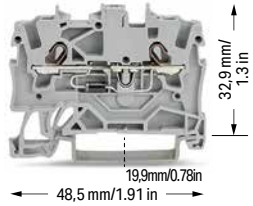
Test plug adapter; for 4 mm Ø test plug

gray	2009-174	100 (25)

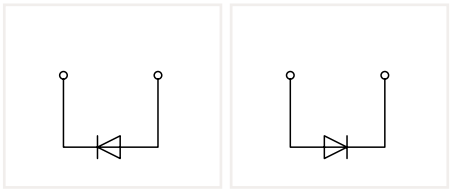
Diode Terminal Block and LED Terminal Block TOPJOB® S
1.5 (2.5) mm²; 2001 Series

1

Technical Data	
0.25 … 1.5 (2.5) mm² ❶	22 … 14 AWG
U_N 250 V; U_{RM} 1000 V	
1N4007 - 0.5 A continuous current	
Terminal block width: 4.2 mm / 0.165 inch	
9 … 11 mm / 0.35 … 0.43 inch	



2001-1211/1000-411 2001-1211/1000-410



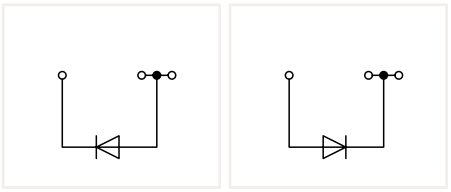
2-conductor diode terminal block; with 1N4007 diode

Color	Item No.	Pack. Unit
gray	2001-1211/1000-411	100
gray	2001-1211/1000-410	100

Other terminal blocks with the same profile:		
Through	2001-1201	Page 48

Technical Data	
0.25 … 1.5 (2.5) mm² ❶	22 … 14 AWG
U_N 250 V; U_{RM} 1000 V	
1N4007 - 0.5 A continuous current	
Terminal block width: 4.2 mm / 0.165 inch	
9 … 11 mm / 0.35 … 0.43 inch	

2001-1311/1000-411 2001-1311/1000-410

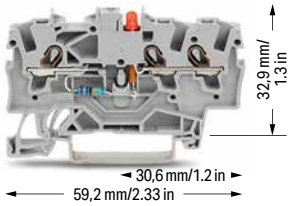


3-conductor diode terminal block; with 1N4007 diode

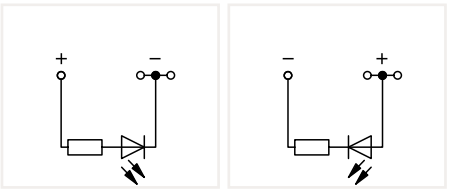
Color	Item No.	Pack. Unit
gray	2001-1311/1000-411	100
gray	2001-1311/1000-410	100

Other terminal blocks with the same profile:		
Through	2001-1301	Page 48

Technical Data	
0.25 … 1.5 (2.5) mm² ❶	22 … 14 AWG
24 VDC	
I_F 0.025 A max.	
Terminal block width: 4.2 mm / 0.165 inch	
9 … 11 mm / 0.35 … 0.43 inch	



2001-1321/1000-434 2001-1321/1000-413

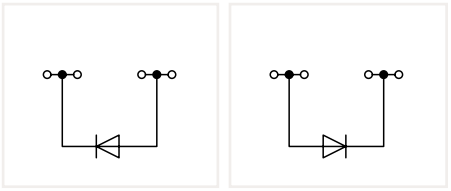


3-conductor LED terminal block; with red LED
Notice: This LED terminal block cannot be commoned with push-in type jumper bars.

Color	Item No.	Pack. Unit
gray	2001-1321/1000-434	100
gray	2001-1321/1000-413	100

Other terminal blocks with the same profile:		
Through	2001-1301	Page 48

2001-1411/1000-411 2001-1411/1000-410

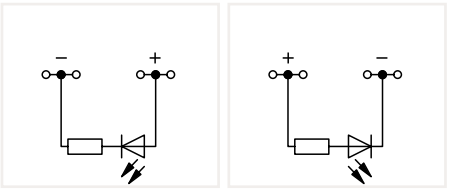


4-conductor diode terminal block; with 1N4007 diode

Color	Item No.	Pack. Unit
gray	2001-1411/1000-411	100
gray	2001-1411/1000-410	100

Other terminal blocks with the same profile:		
Through	2001-1401	Page 48

2001-1411/1000-434 2001-1411/1000-413



4-conductor LED terminal block; with red LED
Notice: This LED terminal block cannot be commoned with push-in type jumper bars.

Color	Item No.	Pack. Unit
gray	2001-1421/1000-434	100
gray	2001-1421/1000-413	100

Other terminal blocks with the same profile:		
Through	2001-1401	Page 48

PUSH-IN CAGE CLAMP®

Diode Terminal Blocks and LED Terminal Blocks TOPJOB® S
Circuit Configuration Examples

❶ Conductor range: 0.25 … 2.5 mm² “s+f-st”; Push-in termination: 0.75 … 2.5 mm² “s” and 0.75 … 1.5 mm² “insulated ferrules; 12 mm” Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

Approvals and corresponding ratings, visit www.wago.com

Accessories; 2001 Series

Appropriate marking systems:
WMB/WMB Inline/Marking strips

Insulation stop; 5 pcs/strip; 0.25 … 0.5 mm²

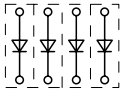
light gray	**2001-171**	200 (25)

Push-in type jumper bar; insulated; I_N 18 A; light gray

2-way	**2001-402**	25
3-way	**2001-403**	25
4-way	**2001-404**	25
5-way	**2001-405**	25
6-way	**2001-406**	25
7-way	**2001-407**	25
8-way	**2001-408**	25
9-way	**2001-409**	25
10-way	**2001-410**	25

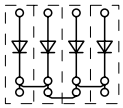
Push-in type jumper bar; insulated; I_N 18 A; light gray

1 to 3	**2001-433**	25
1 to 4	**2001-434**	25
1 to 5	**2001-435**	25
1 to 6	**2001-436**	25
1 to 7	**2001-437**	25
1 to 8	**2001-438**	25
1 to 9	**2001-439**	25
1 to 10	**2001-440**	25

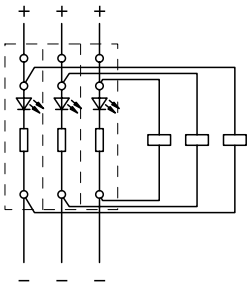


Open diode gates can be created using the following terminal blocks:
2001-1211/1000-410 or 2001-1211/1000-411

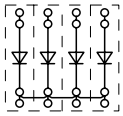
These diode terminal blocks have been specially developed for custom diode circuits, such as lamp test and collective fault signal circuits.



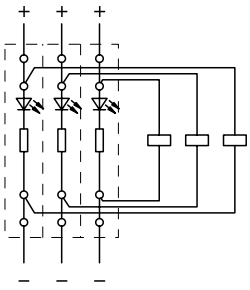
Polarized diode gates with a common cathode can be created using the following terminal blocks:
2001-1311/1000-410 or 2001-1311/1000-411



Circuit-related voltage indications can be created using the following terminal blocks:
2001-1321/1000-434 or 2001-1321/1000-413



Polarized diode gates with a common cathode can be created using the following terminal blocks:
2001-1411/1000-410 or 2001-1411/1000-411

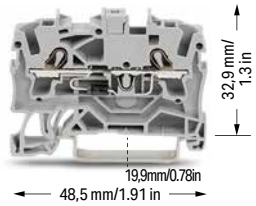


Circuit-related voltage indications can be created using the following terminal blocks:
2001-1421/1000-434 or 2001-1421/1000-413

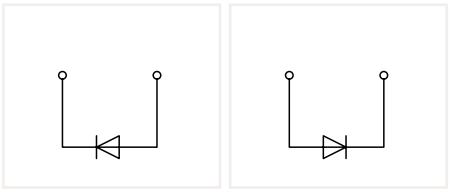
Diode Terminal Block and LED Terminal Block TOPJOB® S
2.5 (4) mm²; 2002 Series

1

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
U_N 250 V; U_{RM} 1000 V	
1N4007 - 0.5 A continuous current	
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



2002-1211/1000-411 2002-1211/1000-410



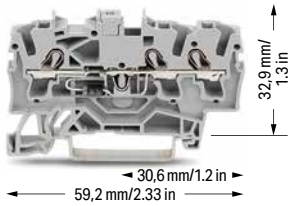
2-conductor diode terminal block; with 1N4007 diode

Color	Item No.	Pack. Unit
gray	2002-1211/1000-411	100
gray	2002-1211/1000-410	100

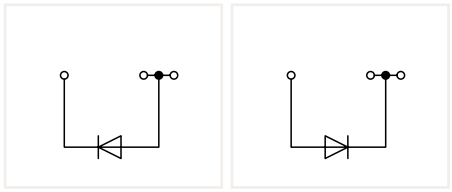
Other terminal blocks with the same profile:

Through	2002-1201	Page 64

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
U_N 250 V; U_{RM} 1000 V	
1N4007 - 0.5 A continuous current	
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



2002-1311/1000-411 2002-1311/1000-410



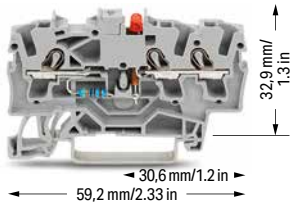
3-conductor diode terminal block; with 1N4007 diode

Color	Item No.	Pack. Unit
gray	2002-1311/1000-411	100
gray	2002-1311/1000-410	100

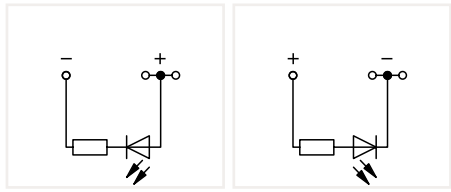
Other terminal blocks with the same profile:

Through	2002-1301	Page 64

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
24 VDC	
I_F 0.025 A max.	
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



2002-1321/1000-434 2002-1321/1000-413



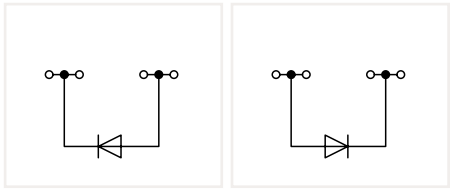
3-conductor LED terminal block; with red LED
Notice: This LED terminal block cannot be commoned with push-in type jumper bars.

Color	Item No.	Pack. Unit
gray	2002-1321/1000-434	100
gray	2002-1321/1000-413	100

Other terminal blocks with the same profile:

Through	2002-1301	Page 64

2002-1411/1000-411 2002-1411/1000-410

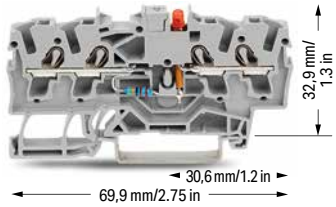


4-conductor diode terminal block; with 1N4007 diode

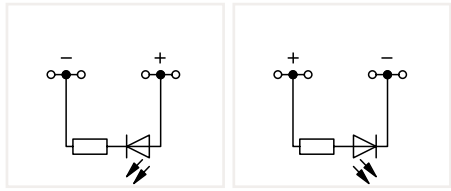
Color	Item No.	Pack. Unit
gray	2002-1411/1000-411	100
gray	2002-1411/1000-410	100

Other terminal blocks with the same profile:

Through	2002-1401	Page 64



2002-1411/1000-434 2002-1411/1000-413



4-conductor LED terminal block; with red LED
Notice: This LED terminal block cannot be commoned with push-in type jumper bars.

Color	Item No.	Pack. Unit
gray	2002-1421/1000-434	100
gray	2002-1421/1000-413	100

Other terminal blocks with the same profile:

Through	2002-1401	Page 64

PUSH-IN CAGE CLAMP®

Diode Terminal Blocks and LED Terminal Blocks TOPJOB® S
Circuit Configuration Examples

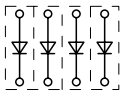
❶ Conductor range: 0.25 … 4 mm² “s+f-st”;
Push-in termination: 1 … 4 mm² “s” and 1 … 2.5 mm² “insulated ferrules, 12 mm”
Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

Approvals and corresponding ratings, visit www.wago.com

Accessories; 2002 Series

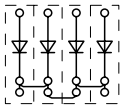
Appropriate marking systems:
WMB/WMB Inline/Marking strips

Insulation stop; 5 pcs/strip; 0.25 … 0.5 mm²			
	light gray	**2002-171**	200 (25)
Insulation stop; 5 pcs/strip; 0.75 … 1 mm²			
	dark gray	**2002-172**	200 (25)
Push-in type jumper bar; insulated; I_N 25 A; light gray			
	2-way	**2002-402**	25
	3-way	**2002-403**	25
	4-way	**2002-404**	25
	5-way	**2002-405**	25
	6-way	**2002-406**	25
	7-way	**2002-407**	25
	8-way	**2002-408**	25
	9-way	**2002-409**	25
	10-way	**2002-410**	25
Push-in type jumper bar; insulated; I_N 25 A; light gray			
	1 to 3	**2002-433**	25
	1 to 4	**2002-434**	25
	1 to 5	**2002-435**	25
	1 to 6	**2002-436**	25
	1 to 7	**2002-437**	25
	1 to 8	**2002-438**	25
	1 to 9	**2002-439**	25
	1 to 10	**2002-440**	25

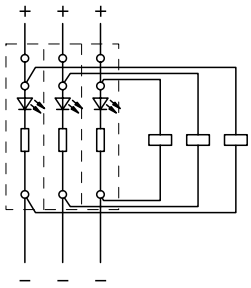


Open diode gates can be created using the following terminal blocks:
2002-1211/1000-410 or 2002-1211/1000-411

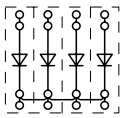
Using LED terminal blocks, monitoring units can be designed, e.g., for control and operating circuits.



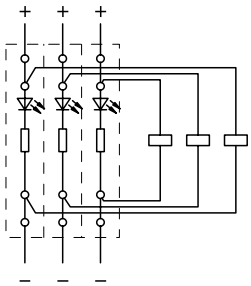
Polarized diode gates with a common cathode can be created using the following terminal blocks:
2002-1311/1000-410 or 2002-1311/1000-411



Circuit-related voltage indications can be created using the following terminal blocks:
2002-1321/1000-434 or 2002-1321/1000-413



Polarized diode gates with a common cathode can be created using the following terminal blocks:
2002-1411/1000-410 or 2002-1411/1000-411

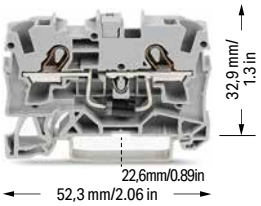


Circuit-related voltage indications can be created using the following terminal blocks:
2002-1421/1000-434 or 2002-1421/1000-413

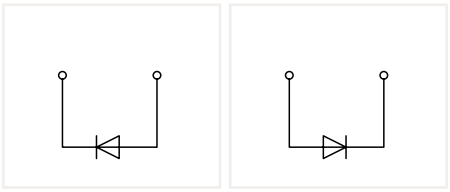
Diode Terminal Block TOPJOB® S
4 (6) mm²; 2004 Series

1

Technical Data	
0.5 … 4 (6) mm² ❶	20 … 10 AWG
U_N 250 V; U_{RM} 1000 V	
1N5408 - 1.5 A continuous current	
Terminal block width: 6.2 mm / 0.244 inch	
11 … 13 mm / 0.43 … 0.51 inch	



2004-1211/1000-401 2004-1211/1000-400

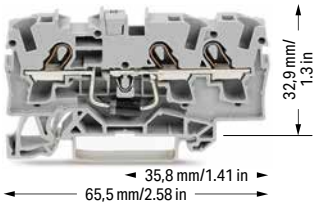


2-conductor diode terminal block; with 1N5408 diode

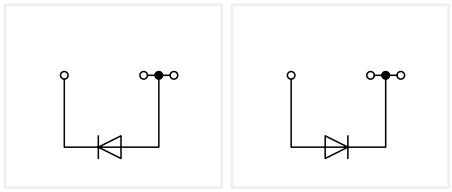
Color	Item No.	Pack. Unit
gray	2004-1211/1000-401	50
gray	2004-1211/1000-400	50

Other terminal blocks with the same profile:		
Through	2004-1201	Page 54

Technical Data	
0.5 … 4 (6) mm² ❶	20 … 10 AWG
U_N 250 V; U_{RM} 1000 V	
1N5408 - 1.5 A continuous current	
Terminal block width: 6.2 mm / 0.244 inch	
11 … 13 mm / 0.43 … 0.51 inch	



2004-1311/1000-401 2004-1311/1000-400

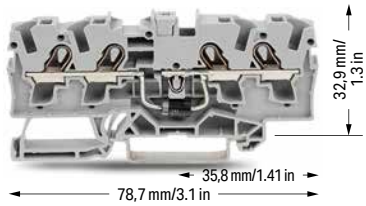


3-conductor diode terminal block; with 1N5408 diode

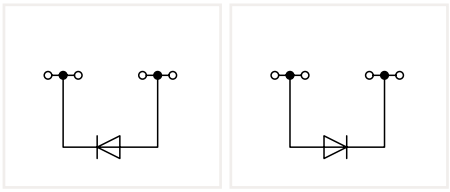
Color	Item No.	Pack. Unit
gray	2004-1311/1000-401	50
gray	2004-1311/1000-400	50

Other terminal blocks with the same profile:		
Through	2004-1301	Page 54

Technical Data	
0.5 … 4 (6) mm² ❶	20 … 10 AWG
U_N 250 V; U_{RM} 1000 V	
1N5408 - 1.5 A continuous current	
Terminal block width: 6.2 mm / 0.244 inch	
11 … 13 mm / 0.43 … 0.51 inch	



2004-1411/1000-401 2004-1411/1000-400



4-conductor diode terminal block; with 1N5408 diode

Color	Item No.	Pack. Unit
gray	2004-1411/1000-401	50
gray	2004-1411/1000-400	50

Other terminal blocks with the same profile:		
Through	2004-1401	Page 54

PUSH-IN CAGE CLAMP®

Diode Terminal Blocks TOPJOB® S
Circuit Configuration Examples

❶ Conductor range: 0.5 … 6 mm² “s+f-st”;
Push-in termination: 1.5 … 6 mm² “s” and 1.5 … 4 mm² “insulated ferrules; 12 mm”
Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

Approvals and corresponding ratings, visit www.wago.com

Accessories; 2004 Series

Appropriate marking systems:
WMB/WMB Inline/Marking strips

Insulation stop; 5 pcs/strip; 0.25 … 0.5 mm²

light gray	**2004-171**	200 (25)

Insulation stop; 5 pcs/strip; 0.75 … 1 mm²

dark gray	**2004-172**	200 (25)

Push-in type jumper bar; insulated; I_N 32 A; light gray

2-way	**2004-402**	25
3-way	**2004-403**	25
4-way	**2004-404**	25
5-way	**2004-405**	25
6-way	**2004-406**	25
7-way	**2004-407**	25
8-way	**2004-408**	25
9-way	**2004-409**	25
10-way	**2004-410**	25

Push-in type jumper bar; insulated; I_N 32 A; light gray

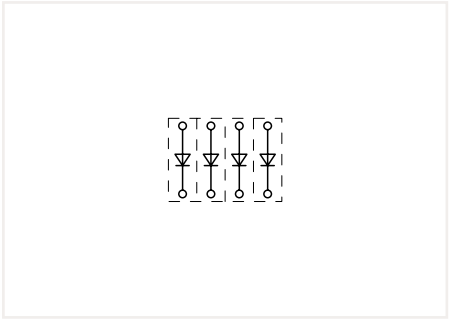
1 to 3	**2004-433**	25
1 to 4	**2004-434**	25
1 to 5	**2004-435**	25
1 to 6	**2004-436**	25
1 to 7	**2004-437**	25
1 to 8	**2004-438**	25
1 to 9	**2004-439**	25
1 to 10	**2004-440**	25

Wire commoning chain; 50 connections; insulated; I_N 8 A

black	**210-103**	5

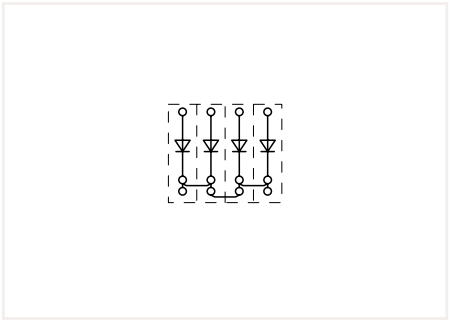
Wire commoning chain; 50 connections; insulated; I_N 8 A

blue	**210-123**	5

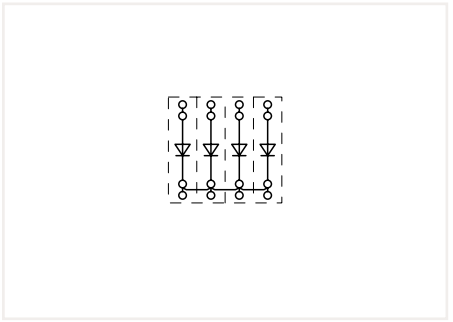


Open diode gates can be created using the following terminal blocks:
2004-1211/1000-400 or 2004-1211/1000-401

These diode terminal blocks have been specially developed for custom diode circuits, such as lamp test and collective fault signal circuits.



Polarized diode gates with a common cathode can be created using the following terminal blocks:
2004-1311/1000-400 or 2004-1311/1000-401

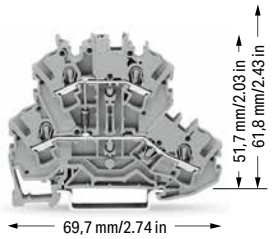


Polarized diode gates with a common cathode can be created using the following terminal blocks:
2004-1411/1000-400 or 2004-1411/1000-401

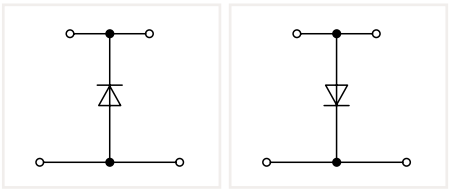
Double-Deck Diode Terminal Block and LED Terminal Block TOPJOB® S
2.5 (4) mm²; 2002 Series

1

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
U_N 250 V; U_{RM} 1000 V	
1N4007 - 0.5 A continuous current	
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



2002-2211/1000-410 2002-2211/1000-411



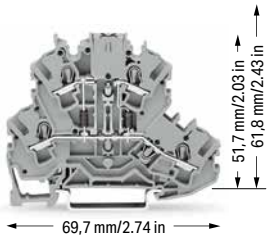
Double-deck diode terminal block; with 1N4007 diode

Color	Item No.	Pack. Unit
gray	2002-2211/1000-410	50
gray	2002-2211/1000-411	50

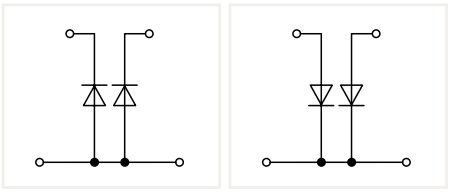
Other terminal blocks with the same profile:

Through	2002-2201	Page 64

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
U_N 250 V; U_{RM} 1000 V	
1N4007 - 0.5 A continuous current	
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



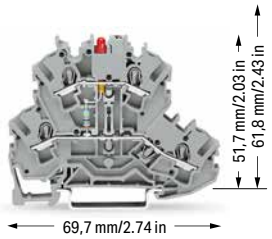
2002-2213/1000-487 2002-2213/1000-488



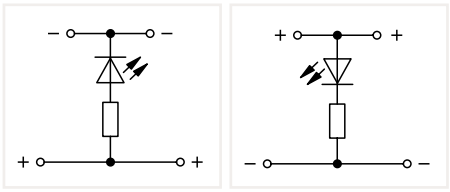
Double-deck diode terminal block; with two 1N4007 diodes

Color	Item No.	Pack. Unit
gray	2002-2213/1000-487	50
gray	2002-2213/1000-488	50

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
24 VDC	
I_F 0.025 A max.	
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	

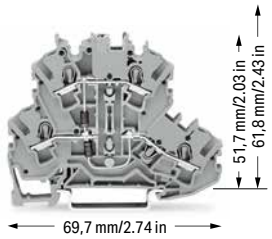


2002-2221/1000-434 2002-2221/1000-413

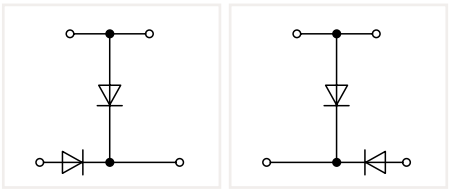


Double-deck LED terminal block; with red LED

Color	Item No.	Pack. Unit
gray	2002-2221/1000-434	50
gray	2002-2221/1000-413	50

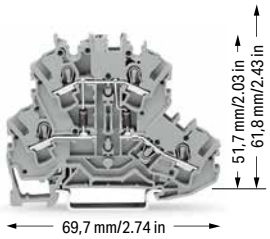


2002-2214/1000-492 2002-2214/1000-491

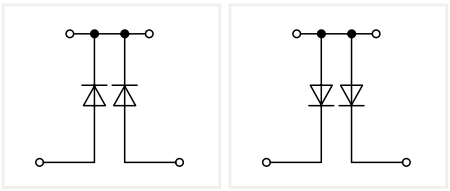


Double-deck diode terminal block; with two 1N4007 diodes

Color	Item No.	Pack. Unit
gray	2002-2214/1000-492	50
gray	2002-2214/1000-491	50



2002-2214/1000-489 2002-2214/1000-490



Double-deck diode terminal block; with two 1N4007 diodes

Color	Item No.	Pack. Unit
gray	2002-2214/1000-489	50
gray	2002-2214/1000-490	50

PUSH-IN CAGE CLAMP®

Double-Deck Diode Terminal Blocks and LED Terminal Blocks TOPJOB® S
Circuit Configuration Examples

❶ Conductor range: 0.25 … 4 mm² “s+f-st”;
Push-in termination: 1 … 4 mm² “s” and 1 … 2.5 mm² “insulated ferrules, 12 mm”
Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

Approvals and corresponding ratings, visit www.wago.com

Accessories; 2002 Series

Appropriate marking systems:
WMB/WMB Inline/Marking strips

End and intermediate plate; 0.8 mm thick

orange	2002-2292	100 (25)
gray	2002-2291	100 (25)

Double-deck marker carrier; pivoting

gray	2002-121	50 (25)

Insulation stop; 5 pcs/strip; 0.25 … 0.5 mm²

light gray	2002-171	200 (25)

Insulation stop; 5 pcs/strip; 0.75 … 1 mm²

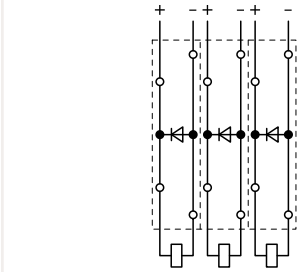
dark gray	2002-172	200 (25)

Push-in type jumper bar; insulated; I_N 25 A; light gray

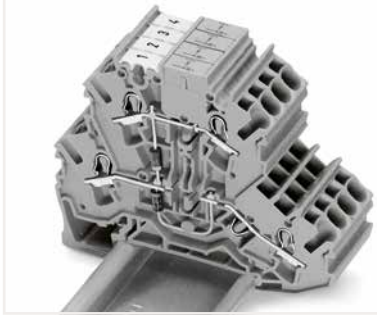
2-way	2002-402	25
3-way	2002-403	25
4-way	2002-404	25
5-way	2002-405	25
6-way	2002-406	25
7-way	2002-407	25
8-way	2002-408	25
9-way	2002-409	25
10-way	2002-410	25

Push-in type jumper bar; insulated; I_N 25 A; light gray

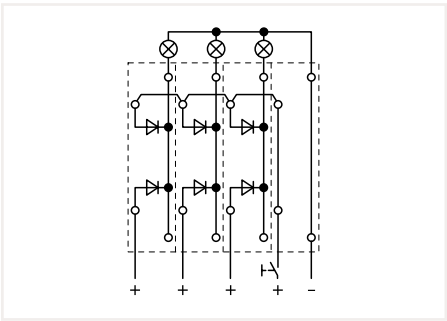
1 to 3	2002-433	25
1 to 4	2002-434	25
1 to 5	2002-435	25
1 to 6	2002-436	25
1 to 7	2002-437	25
1 to 8	2002-438	25
1 to 9	2002-439	25
1 to 10	2002-440	25



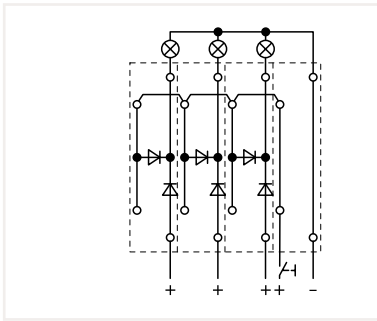
Open diode gates can be created using the following terminal blocks:
2002-2211/1000-410 or 2002-2211/1000-411



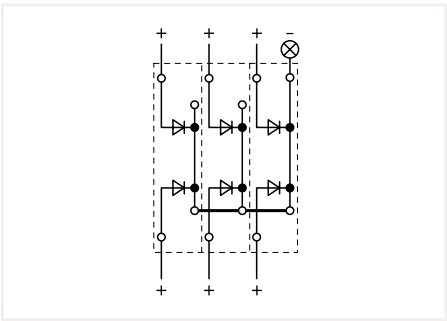
Double-deck diode terminal blocks were specifically developed for custom diode circuits, such as lamp test and collective fault signal circuits.
These terminal blocks provide high-density wiring in a width of just 5.2 mm.
Push-in type jumper bars provide additional options for custom circuit design.



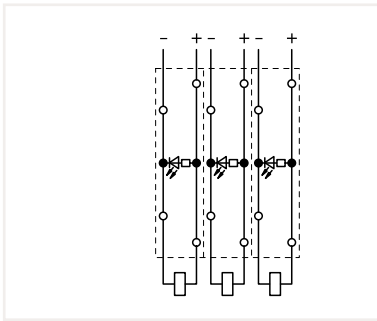
Polarized diode gates with a common cathode can be created using the following terminal blocks:
2002-2213/1000-487 or 2002-2213/1000-488



Lamp test circuits can be created using the following terminal blocks:
2002-2214/1000-492 or 2002-2214/1000-491



Polarized diode gates with a common cathode can be created using the following terminal blocks:
2002-2214/1000-489 or 2002-2214/1000-490

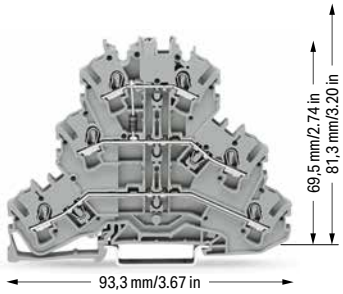


Circuit-related voltage indications can be created using the following terminal blocks:
2002-2221/1000-434 or 2002-2221/1000-413

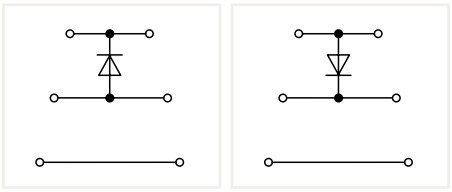
Triple-Deck Diode Terminal Block and LED Terminal Block TOPJOB® S
2.5 (4) mm²; 2002 Series

1

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
U_N 250 V; U_{RM} 1000 V	
1N4007 - 0.5 A continuous current	
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



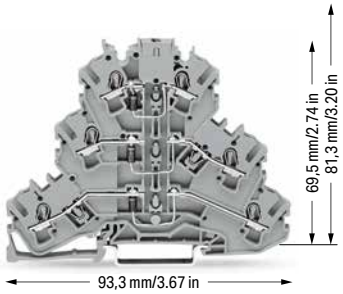
2002-3211/1000-410 2002-3211/1000-411



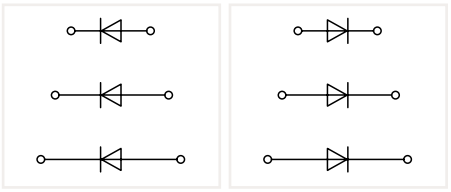
Triple-deck diode terminal block;, with 1N4007 diode

Color	Item No.	Pack. Unit
gray	2002-3211/1000-410	50
gray	2002-3211/1000-411	50

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
U_N 250 V; U_{RM} 1000 V	
1N4007 - 0.5 A continuous current	
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



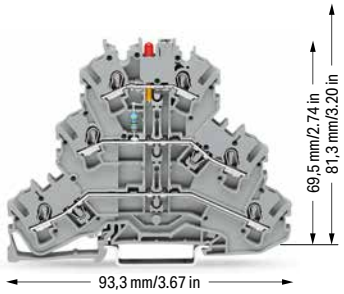
2002-3212/1000-673 2002-3212/1000-674



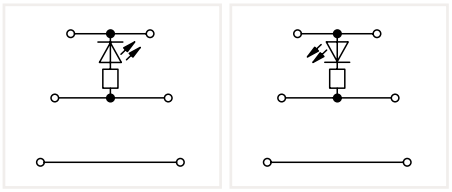
Triple-deck diode terminal block; with three 1N4007 diodes

Color	Item No.	Pack. Unit
gray	2002-3212/1000-673	50
gray	2002-3212/1000-674	50

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
24 VDC	
I_F 0.025 A max.	
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



2002-3221/1000-434 2002-3221/1000-413

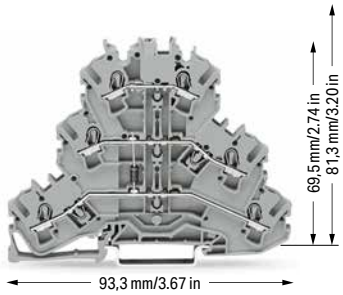


Triple-deck LED terminal block; with red LED

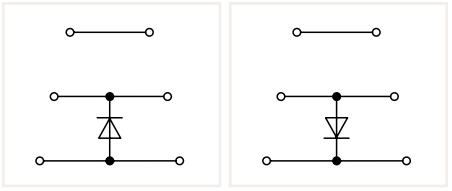
Color	Item No.	Pack. Unit
gray	2002-3221/1000-434	50
gray	2002-3221/1000-413	50

Other terminal blocks with the same profile:

Through	2002-3201	Page 76



2002-3211/1000-675 2002-3211/1000-676



Triple-deck diode terminal block;, with 1N4007 diode

Color	Item No.	Pack. Unit
gray	2002-3211/1000-675	50
gray	2002-3211/1000-676	50

1 Conductor range: 0.25 … 4 mm² “s+f-st”;
Push-in termination: 1 … 4 mm² “s” and 1 … 2.5 mm² “insulated ferrules, 12 mm”
Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

Approvals and corresponding ratings, visit www.wago.com

Accessories; 2002 Series

Appropriate marking systems:
WMB/WMB Inline/Marking strips

End and intermediate plate; 0.8 mm thick

orange	2002-3292	100 (25)
gray	2002-3291	100 (25)

Insulation stop; 5 pcs/strip; 0.25 … 0.5 mm²

light gray	2002-171	200 (25)

Insulation stop; 5 pcs/strip; 0.75 … 1 mm²

dark gray	2002-172	200 (25)

Push-in type jumper bar; insulated; I_N 25 A; light gray

2-way	2002-402	25
3-way	2002-403	25
4-way	2002-404	25
5-way	2002-405	25
6-way	2002-406	25
7-way	2002-407	25
8-way	2002-408	25
9-way	2002-409	25
10-way	2002-410	25

Push-in type jumper bar; insulated; I_N 25 A; light gray

1 to 3	2002-433	25
1 to 4	2002-434	25
1 to 5	2002-435	25
1 to 6	2002-436	25
1 to 7	2002-437	25
1 to 8	2002-438	25
1 to 9	2002-439	25
1 to 10	2002-440	25

Modular connector; snaps together; for jumper contact slot

gray	2002-511	100 (25)

Spacer module; snaps together; bridges commoned terminal blocks

gray	2002-549	100 (25)

End plate; for modular connector; 1.5 mm thick

gray	2002-541	100 (25)

Test plug; with 500 mm cable; 2 mm Ø; max. 42 V

red	210-136	50

Test plug adapter; for 4 mm Ø test plug

gray	2009-174	100 (25)

Accessories; 2002 Series

Appropriate marking systems:
WMB/WMB Inline/Marking strips

Banana plug; for 4 mm socket diameter; color mixed; 10 x orange, white, black, blue, yellow; max. 42 V

	215-111	50

Testing tap; for max. 2.5 mm²

gray	2009-182	100 (25)

WMB Inline, plain; 1,500 WMB markers (5 mm)/reel; 5 … 5.2 mm stretchable

white	2009-115	1

Marking strip; plain; 11 mm wide; 50 m reel

white	2009-110	1

WMB marking card; white; 10 strips with 10 markers/card; 5 … 5.2 mm stretchable

plain	793-5501	5

Triple-deck marker carrier; pivoting

gray	2002-131	50 (25)

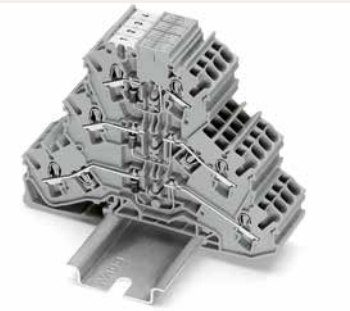
Group marker carrier; snap-on type for jumper slot; 5 mm wide

gray	2009-191	50 (25)

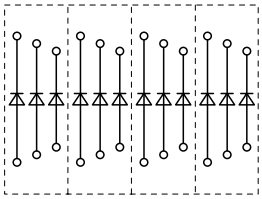
Screwless end stop; for DIN-35 rail; 6 mm wide

gray	249-116	100 (25)

Double- and triple-deck LED terminal blocks:
Using LED terminal blocks, monitoring units can be designed, e.g., for control and operating circuits.



Triple-deck diode terminal blocks were specifically developed for custom diode circuits, such as lamp test and collective fault signal circuits.
These terminal blocks provide high-density wiring in a width of just 5.2 mm.
Push-in type jumper bars provide additional options for custom circuit design.



Open diode gates can be created and connected individually using the following terminal blocks:
2002-3212/1000-673 or 2002-3212/1000-674

Using push-in type jumper bars, individual decks can be turned into polarized diode gates.

Pluggable Diode Module TOPJOB® S on Carrier Terminal Block 2.5 (4) mm²
2002 Series

1

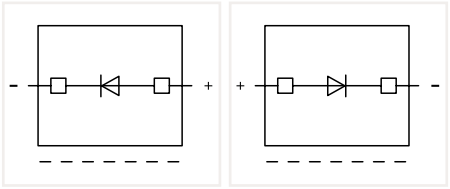
Technical Data

U_N 250 V; U_{RM} 1000 V

I_N 1 A

Plug width: 5.2 mm / 0.205 inch

2002-800/1000-411 2002-800/1000-410



Diode module; with 1N4007 diode; max. operating temperature: 85°C; 5.2 mm wide

Color	Item No.	Pack. Unit
gray	2002-800/1000-411	100
gray	2002-800/1000-410	100

Accessories for Carrier Terminal Blocks

Appropriate marking systems:
WMB/Marking strips

2-conductor carrier terminal block;
0.25 … 2.5 (4) mm² / 22 … 12 AWG
Terminal block width: 5.2 mm / 0.205 inch

gray	2002-1661	50

End and intermediate plate; 1 mm thick

orange	2002-1692	100 (25)
gray	2002-1691	100 (25)

3-conductor carrier terminal block;
0.25 … 2.5 (4) mm² / 22 … 12 AWG
Terminal block width: 5.2 mm / 0.205 inch

gray	2002-1761	50

End and intermediate plate; 1 mm thick

orange	2002-1792	100 (25)
gray	2002-1791	100 (25)

4-conductor carrier terminal block;
0.25 … 2.5 (4) mm² / 22 … 12 AWG
Terminal block width: 5.2 mm / 0.205 inch

gray	2002-1861	50

End and intermediate plate; 1 mm thick

orange	2002-1892	100 (25)
gray	2002-1891	100 (25)

Please observe the application notes:
Jumpers, from page 152
Marking, from page 588

Approvals and corresponding ratings,
visit www.wago.com

Accessories for Carrier Terminal Blocks

Appropriate marking systems:
WMB/Marking strips

2-conductor carrier terminal block;
0.25 … 2.5 (4) mm² / 22 … 12 AWG
Terminal block width: 5.2 mm / 0.205 inch

gray	2002-1961	50

End and intermediate plate; 1 mm thick

orange	2002-1992	100 (25)
gray	2002-1991	100 (25)

Push-in type wire jumper; insulated; 1.5 mm² conductor cross-section; I_N 18 A

L = 60 mm	2009-412	100 (10)
L = 110 mm	2009-414	100 (10)
L = 250 mm	2009-416	100 (10)

Push-in type jumper bar; insulated; I_N 25 A; light gray

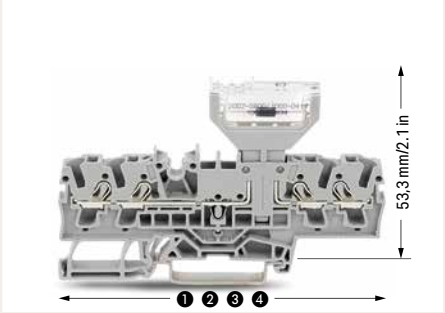
2-way	2002-402	25
3-way	2002-403	25
4-way	2002-404	25
5-way	2002-405	25
6-way	2002-406	25
7-way	2002-407	25
8-way	2002-408	25
9-way	2002-409	25
10-way	2002-410	25

Push-in type jumper bar; insulated; I_N 25 A; light gray

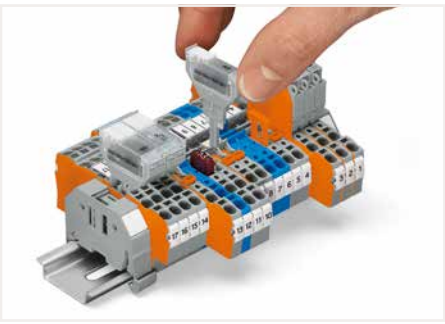
1 to 3	2002-433	25
1 to 4	2002-434	25
1 to 5	2002-435	25
1 to 6	2002-436	25
1 to 7	2002-437	25
1 to 8	2002-438	25
1 to 9	2002-439	25
1 to 10	2002-440	25

Staggered jumper; insulated; I_N 25 A; light gray

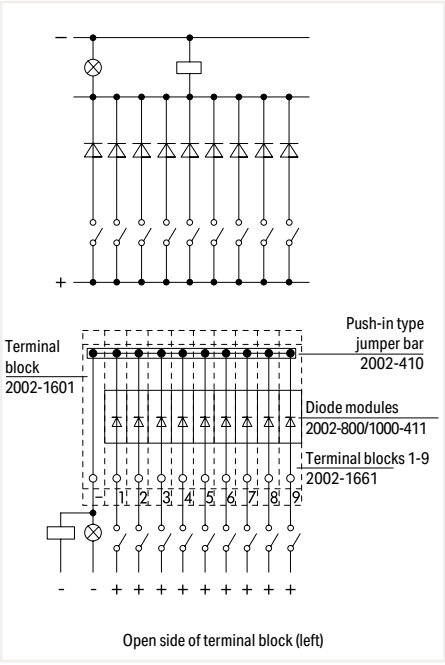
2-way	2002-472	25
3-way	2002-473	25
4-way	2002-474	25
5-way	2002-475	25
6-way	2002-476	25
7-way	2002-477	25
8-way	2002-478	25
9-way	2002-479	25
10-way	2002-480	25
11-way	2002-481	25
12-way	2002-482	25



Lengths of carrier terminal blocks with a pluggable diode module:
1. 66.1 mm / 2.62 inch for 2002-1661
2. 76.8 mm / 3.02 inch for 2002-1761
3. 87.5 mm / 3.45 inch for 2002-1861
4. 72.9 mm / 2.87 inch for 2002-1961



These diode modules are ideal for custom diode circuits (e.g., lamp test and collective fault signal circuits) and offer the following advantages:
- Separation into functional and wiring levels
- Polarized switching direction
- Quick and easy module replacement
- Terminal blocks/modules provide high-density wiring in a width of just 5.2 mm



Diode module (2002-800/1000-411)
Diode gate for collective fault indication

PUSH-IN CAGE CLAMP®

Pluggable Diode Module and Empty Component Plug Housing TOPJOB® S on Through Terminal Block 2.5 (4) mm²

2002 Series

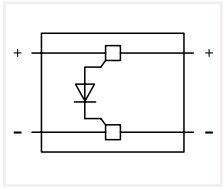
Technical Data

U_N 250 V; U_{RM} 1000 V

I_N 1 A

Plug width: 10.4 mm / 0.409 inch

2002-880/1000-411



Diode module; with 1N4007 recovery diode; max. operating temperature: 85°C; 10.4 mm wide

Color	Item No.	Pack. Unit
gray	2002-880/1000-411	50

Empty component plug housing; type 4; 10.4 mm wide

gray	2002-880	50

Accessories for Through Terminal Blocks

Appropriate marking systems:
WMB/Marking strips

2-conductor through terminal block;
0.25 … 2.5 (4) mm² / 22 … 12 AWG
Terminal block width: 5.2 mm / 0.205 inch

gray	2002-1201	100

End and intermediate plate; 0.8 mm thick

orange	2002-1292	100 (25)
gray	2002-1291	100 (25)

3-conductor through terminal block;
0.25 … 2.5 (4) mm² / 22 … 12 AWG
Terminal block width: 5.2 mm / 0.205 inch

gray	2002-1301	100

End and intermediate plate; 0.8 mm thick

orange	2002-1392	100 (25)
gray	2002-1391	100 (25)

4-conductor through terminal block;
0.25 … 2.5 (4) mm² / 22 … 12 AWG
Terminal block width: 5.2 mm / 0.205 inch

gray	2002-1401	100

End and intermediate plate; 0.8 mm thick

orange	2002-1492	100 (25)
gray	2002-1491	100 (25)

Please observe the application notes:
Jumpers, from page 152
Marking, from page 588

Approvals and corresponding ratings, visit www.wago.com

Accessories for Through Terminal Blocks

Appropriate marking systems:
WMB/Marking strips

Insulation stop; 5 pcs/strip; 0.25 … 0.5 mm²

light gray	2002-171	200 (25)

Insulation stop; 5 pcs/strip; 0.75 … 1 mm²

dark gray	2002-172	200 (25)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks

yellow	2002-115	100 (25)

Push-in type wire jumper; insulated; 1.5 mm² conductor cross-section; I_N 18 A

L = 60 mm	2009-412	100 (10)
L = 110 mm	2009-414	100 (10)
L = 250 mm	2009-416	100 (10)

Push-in type jumper bar; insulated; I_N 25 A; light gray

2-way	2002-402	25
3-way	2002-403	25
4-way	2002-404	25
5-way	2002-405	25
6-way	2002-406	25
7-way	2002-407	25
8-way	2002-408	25
9-way	2002-409	25
10-way	2002-410	25

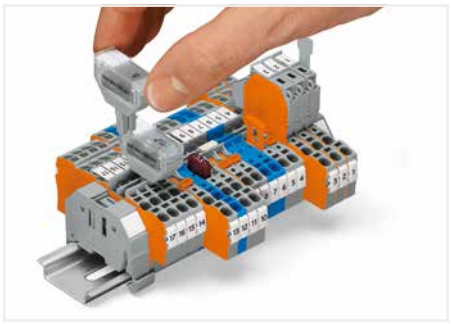
Push-in type jumper bar; insulated; I_N 25 A; light gray

1 to 3	2002-433	25
1 to 4	2002-434	25
1 to 5	2002-435	25
1 to 6	2002-436	25
1 to 7	2002-437	25
1 to 8	2002-438	25
1 to 9	2002-439	25
1 to 10	2002-440	25

Staggered jumper; insulated; I_N 25 A; light gray

2-way	2002-472	25
3-way	2002-473	25
4-way	2002-474	25
5-way	2002-475	25
6-way	2002-476	25
7-way	2002-477	25
8-way	2002-478	25
9-way	2002-479	25
10-way	2002-480	25

Lengths of through terminal blocks with a pluggable diode module:
1. 48.5 mm / 1.91 inch for 2002-1201
2. 59.2 mm / 2.33 inch for 2002-1301
3. 69.9 mm / 2.75 inch for 2002-1401



Similar to push-in type jumpers, these diode modules are simply pushed into the current bar's contact slots of two adjacent through terminal blocks, providing the following advantages:

- Compatible with all 2001 to 2006 Series Through Terminal Blocks equipped with jumper slots (note the module's width)
- Easy retrofits for existing systems
- Separation into functional and wiring levels
- Fast replacement of other functional units
- solder-free assembly of diodes, resistors, etc.

Opening the cover via operating tool (2.5 mm blade).

Pluggable LED Module TOPJOB® S on Carrier Terminal Block 2.5 (4) mm²
2002 Series

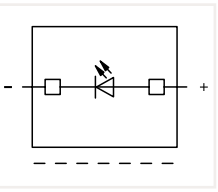
1

Technical Data

U_N 250 V; U_{RM} 1000 V

I_N ≤ 3 mA

Plug width: 5.2 mm / 0.205 inch



LED module; with red LED; max. operating temperature: 85°C; 5.2 mm wide

	Item No.	Pack. Unit
◯ 12 … 30 V	2002-800/1000-541	100
◯ 30 … 65 V	2002-800/1000-542	100
◯ 230 V	2002-800/1000-836	100

Accessories for Carrier Terminal Blocks

Appropriate marking systems:
WMB/Marking strips

2-conductor carrier terminal block; 0.25 … 2.5 (4) mm² / 22 … 12 AWG
Terminal block width: 5.2 mm / 0.205 inch

gray	2002-1661	50

End and intermediate plate; 1 mm thick

orange	2002-1692	100 (25)
gray	2002-1691	100 (25)

3-conductor carrier terminal block; 0.25 … 2.5 (4) mm² / 22 … 12 AWG
Terminal block width: 5.2 mm / 0.205 inch

gray	2002-1761	50

End and intermediate plate; 1 mm thick

orange	2002-1792	100 (25)
gray	2002-1791	100 (25)

4-conductor carrier terminal block; 0.25 … 2.5 (4) mm² / 22 … 12 AWG
Terminal block width: 5.2 mm / 0.205 inch

gray	2002-1861	50

End and intermediate plate; 1 mm thick

orange	2002-1892	100 (25)
gray	2002-1891	100 (25)

Please observe the application notes:
Jumpers, from page 152
Marking, from page 588

Approvals and corresponding ratings, visit www.wago.com

Accessories for Carrier Terminal Blocks

Appropriate marking systems:
WMB/Marking strips

2-conductor carrier terminal block; 0.25 … 2.5 (4) mm² / 22 … 12 AWG
Terminal block width: 5.2 mm / 0.205 inch

gray	2002-1961	50

End and intermediate plate; 1 mm thick

orange	2002-1992	100 (25)
gray	2002-1991	100 (25)

Push-in type wire jumper; insulated; 1.5 mm² conductor cross-section; I_N 18 A

L = 60 mm	2009-412	100 (10)
L = 110 mm	2009-414	100 (10)
L = 250 mm	2009-416	100 (10)

Push-in type jumper bar; insulated; I_N 25 A; light gray

2-way	2002-402	25
3-way	2002-403	25
4-way	2002-404	25
5-way	2002-405	25
6-way	2002-406	25
7-way	2002-407	25
8-way	2002-408	25
9-way	2002-409	25
10-way	2002-410	25

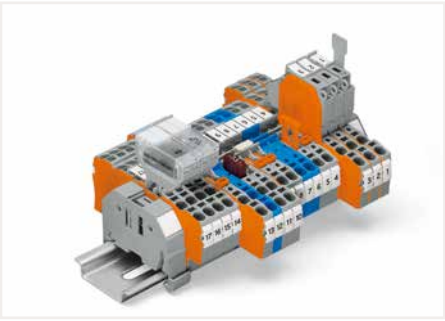
Push-in type jumper bar; insulated; I_N 25 A; light gray

1 to 3	2002-433	25
1 to 4	2002-434	25
1 to 5	2002-435	25
1 to 6	2002-436	25
1 to 7	2002-437	25
1 to 8	2002-438	25
1 to 9	2002-439	25
1 to 10	2002-440	25

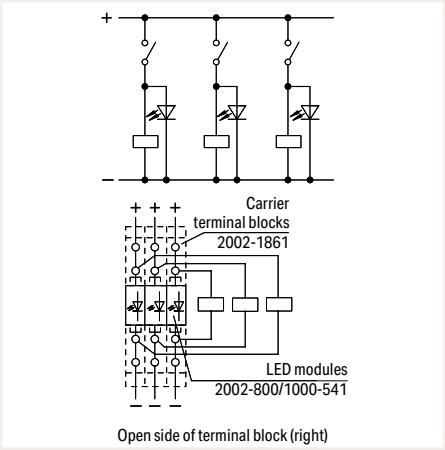
Staggered jumper; insulated; I_N 25 A; light gray

2-way	2002-472	25
3-way	2002-473	25
4-way	2002-474	25
5-way	2002-475	25
6-way	2002-476	25
7-way	2002-477	25
8-way	2002-478	25
9-way	2002-479	25
10-way	2002-480	25
11-way	2002-481	25
12-way	2002-482	25

Lengths of carrier terminal blocks with a pluggable LED module:
❶ 66.1 mm / 2.62 inch for 2002-1661
❷ 76.8 mm / 3.02 inch for 2002-1761
❸ 87.5 mm / 3.45 inch for 2002-1861
❹ 72.9 mm / 2.87 inch for 2002-1961



The monitoring of control and operating current circuits with LED modules on rail-mount terminal blocks provides several advantages:
- No additional cost for assembly and wiring
- Separation into functional and wiring levels
- Modules can be replaced quickly by other types of modules
- Polarized switching direction
- Terminal blocks/modules provide high-density wiring in a width of just 5.2 mm



LED module (2002-800/1000-541)
Voltage control assigned to current circuits

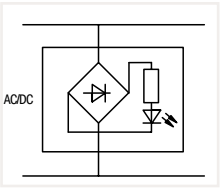
PUSH-IN CAGE CLAMP®

Pluggable LED Module TOPJOB® S on Through Terminal Block 2.5 (4) mm²
2002 Series

Technical Data

$I_N \leq 3$ mA

Plug width: 10.4 mm / 0.409 inch



LED module; with red LED; max. operating temperature: 85°C; 10.4 mm wide

	Item No.	Pack. Unit
◯ 12 … 30 V	2002-880/1000-541	50
◯ 30 … 65 V	2002-880/1000-542	50
◯ 230 V	2002-880/1000-836	50

Accessories for Through Terminal Blocks

Appropriate marking systems:
WMB/Marking strips

2-conductor through terminal block;
0.25 … 2.5 (4) mm² / 22 … 12 AWG
Terminal block width: 5.2 mm / 0.205 inch

gray	2002-1201	100

End and intermediate plate; 0.8 mm thick

orange	2002-1292	100 (25)
gray	2002-1291	100 (25)

3-conductor through terminal block;
0.25 … 2.5 (4) mm² / 22 … 12 AWG
Terminal block width: 5.2 mm / 0.205 inch

gray	2002-1301	100

End and intermediate plate; 0.8 mm thick

orange	2002-1392	100 (25)
gray	2002-1391	100 (25)

4-conductor through terminal block;
0.25 … 2.5 (4) mm² / 22 … 12 AWG
Terminal block width: 5.2 mm / 0.205 inch

gray	2002-1401	100

End and intermediate plate; 0.8 mm thick

orange	2002-1492	100 (25)
gray	2002-1491	100 (25)

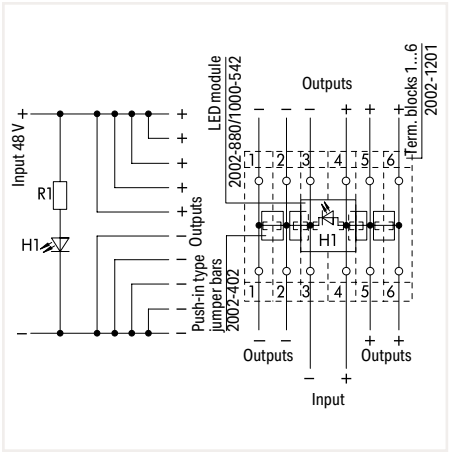
Please observe the application notes:
Marking, from page 588

Approvals and corresponding ratings,
visit www.wago.com

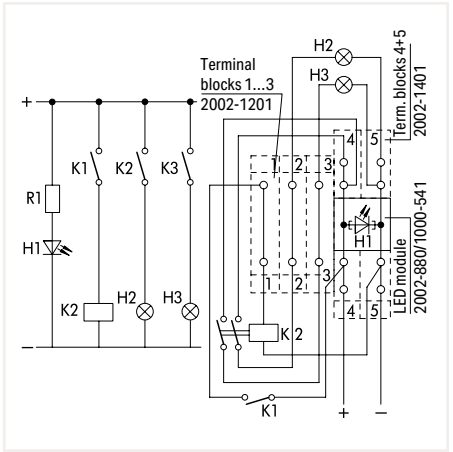
Dimensions of through terminal blocks with a pluggable LED module:
❶ 48.5 mm / 1.91 inch for 2002-1201
❷ 59.2 mm / 2.33 inch for 2002-1301
❸ 69.9 mm / 2.75 inch for 2002-1401

Labeling via WMB Multi markers and marking strips

Testing via 2-pole test plugs.



LED module (2002-880/1000-541)
Multiple outputs with indicator lamp



LED module (2002-880/1000-541)
Control unit

Empty Component Plug Housing TOPJOB® S on Carrier Terminal Block 2.5 (4) mm²
2002 Series

1

Technical Data
Plug width: 5.2 mm / 0.205 inch

Empty component plug housing; type 1; 2-pole; 5.2 mm wide

Color	Item No.	Pack. Unit
gray	2002-800	100

Technical Data
Plug width: 10.4 mm / 0.409 inch

Empty component plug housing; type 2; 2-pole; 10.4 mm wide

Color	Item No.	Pack. Unit
gray	2002-810	50

Empty component plug housing; type 3; 4-pole; 10.4 mm wide

gray	2002-820	50

Please observe the application notes:
Jumpers, from page 152
Marking, from page 588

Approvals and corresponding ratings, visit www.wago.com

Accessories for Carrier Terminal Blocks

Appropriate marking systems: WMB/Marking strips

2-conductor carrier terminal block; 0.25 … 2.5 (4) mm² / 22 … 12 AWG Terminal block width: 5.2 mm / 0.205 inch

gray	2002-1661	50

End and intermediate plate; 1 mm thick

orange	2002-1692	100 (25)
gray	2002-1691	100 (25)

3-conductor carrier terminal block; 0.25 … 2.5 (4) mm² / 22 … 12 AWG Terminal block width: 5.2 mm / 0.205 inch

gray	2002-1761	50

End and intermediate plate; 1 mm thick

orange	2002-1792	100 (25)
gray	2002-1791	100 (25)

4-conductor carrier terminal block; 0.25 … 2.5 (4) mm² / 22 … 12 AWG Terminal block width: 5.2 mm / 0.205 inch

gray	2002-1861	50

End and intermediate plate; 1 mm thick

orange	2002-1892	100 (25)
gray	2002-1891	100 (25)

2-conductor carrier terminal block; 0.25 … 2.5 (4) mm² / 22 … 12 AWG Terminal block width: 5.2 mm / 0.205 inch

gray	2002-1961	50

End and intermediate plate; 1 mm thick

orange	2002-1992	100 (25)
gray	2002-1991	100 (25)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks

yellow	2002-115	100 (25)

Push-in type wire jumper; insulated; 1.5 mm² conductor cross-section; I_N 18 A

L = 60 mm	2009-412	100 (10)
L = 110 mm	2009-414	100 (10)
L = 250 mm	2009-416	100 (10)

Push-in type jumper bar; insulated; I_N 25 A; light gray

2-way	2002-402	25
3-way	2002-403	25
4-way	2002-404	25
5-way	2002-405	25
6-way	2002-406	25
7-way	2002-407	25
8-way	2002-408	25
9-way	2002-409	25
10-way	2002-410	25

Push-in type jumper bar; insulated; I_N 25 A; light gray

1 to 3	2002-433	25
1 to 4	2002-434	25
1 to 5	2002-435	25
1 to 6	2002-436	25
1 to 7	2002-437	25
1 to 8	2002-438	25
1 to 9	2002-439	25
1 to 10	2002-440	25

Staggered jumper; insulated; I_N 25 A; light gray

2-way	2002-472	25
3-way	2002-473	25
4-way	2002-474	25
5-way	2002-475	25
6-way	2002-476	25
7-way	2002-477	25
8-way	2002-478	25
9-way	2002-479	25
10-way	2002-480	25
11-way	2002-481	25
12-way	2002-482	25

Multi-purpose operating tool; for component plugs

	2002-116	5

Accessories for Carrier Terminal Blocks

Appropriate marking systems: WMB/WMB Inline/Marking strips

WMB marking card; white; 10 strips with 10 markers/card; 5 … 5.2 mm stretchable

plain	793-5501	5

WMB marking card; plain; 10 strips with 10 markers/card; 5 … 5.2 mm stretchable

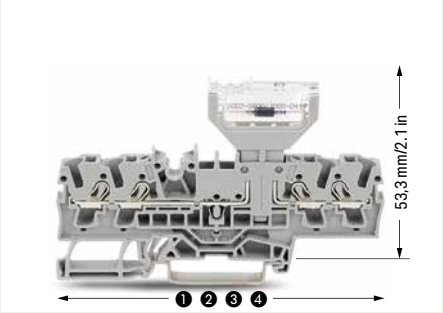
yellow	793-5501/000-002	5
red	793-5501/000-005	5
blue	793-5501/000-006	5
gray	793-5501/000-007	5
orange	793-5501/000-012	5
light green	793-5501/000-017	5
green	793-5501/000-023	5
violet	793-5501/000-024	5

Screwless end stop; for DIN-35 rail; 6 mm wide

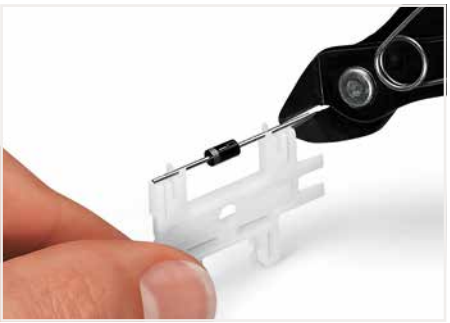
gray	249-116	100 (25)

Screwless end stop; for DIN-35 rail; 10 mm wide

gray	249-117	50 (25)

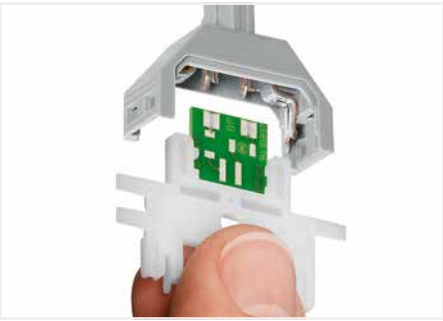


Lengths of carrier terminal blocks with a pluggable diode module:
1 66.1 mm / 2.62 inch for 2002-1661
2 76.8 mm / 3.02 inch for 2002-1761
3 87.5 mm / 3.45 inch for 2002-1861
4 72.9 mm / 2.87 inch for 2002-1961

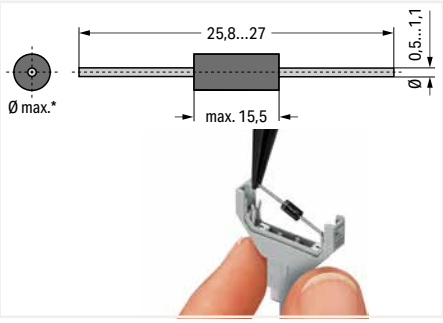


Cutting component to the proper length.

Pressing component into plug contact via operating tool.

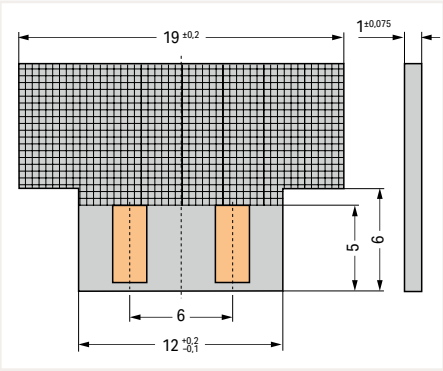


Pushing PCB into plug contact via operating tool.



*max. 3.4 mm Ø at 5.2 mm module width and
*max. 5.4 mm Ø at 10.4 mm module width
Notice: Reconnection only possible with similar or larger wire diameter.

Component plugs for building custom circuits solder-free assembly of diodes, resistors, etc. (Illustration shows a 1N4007 diode)



Dimensions of self-assembled PCBs:
Module height: 2 mm at 5.2 mm module width and module height: 3.3 mm at 10.4 mm module width

When closing the cover, please insert cover as shown in the illustration.

Opening the cover via operating tool (2.5 mm blade).

Opening the cover via multi-purpose operating tool for component plugs.

Component Plug TOPJOB® S on Carrier Terminal Blocks 2.5 (4) mm²
2042 Series

Component plug; 4-pole; transparent housing; with fiber optics; 10.3 mm wide

	Item No.	Pack. Unit
	2042-321	5

Component plug; 6-pole; transparent housing; with fiber optics; 15.5 mm wide

	Item No.	Pack. Unit
	2042-331	5

Component plug; 8-pole; transparent housing; with fiber optics; 20.7 mm wide

	2042-341	5

Component plug; 10-pole; transparent housing; with fiber optics; 25.9 mm wide

	2042-351	5

Accessories for Carrier Terminal Blocks

Appropriate marking systems: WMB/Marking strips

2-conductor carrier terminal block; 0.25 … 2.5 (4) mm² / 22 … 12 AWG Terminal block width: 5.2 mm / 0.205 inch

gray	2002-1661	50

End and intermediate plate; 1 mm thick

orange	2002-1692	100 (25)
gray	2002-1691	100 (25)

3-conductor carrier terminal block; 0.25 … 2.5 (4) mm² / 22 … 12 AWG Terminal block width: 5.2 mm / 0.205 inch

gray	2002-1761	50

End and intermediate plate; 1 mm thick

orange	2002-1792	100 (25)
gray	2002-1791	100 (25)

4-conductor carrier terminal block; 0.25 … 2.5 (4) mm² / 22 … 12 AWG Terminal block width: 5.2 mm / 0.205 inch

gray	2002-1861	50

End and intermediate plate; 1 mm thick

orange	2002-1892	100 (25)
gray	2002-1891	100 (25)

2-conductor carrier terminal block; 0.25 … 2.5 (4) mm² / 22 … 12 AWG Terminal block width: 5.2 mm / 0.205 inch

gray	2002-1961	50

End and intermediate plate; 1 mm thick

orange	2002-1992	100 (25)
gray	2002-1991	100 (25)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks

yellow	2002-115	100 (25)

Push-in type wire jumper; insulated; 1.5 mm² conductor cross-section; I_N 18 A

L = 60 mm	2009-412	100 (10)
L = 110 mm	2009-414	100 (10)
L = 250 mm	2009-416	100 (10)

Push-in type jumper bar; insulated; I_N 25 A; light gray

2-way	2002-402	25
3-way	2002-403	25
4-way	2002-404	25
5-way	2002-405	25
6-way	2002-406	25
7-way	2002-407	25
8-way	2002-408	25
9-way	2002-409	25
10-way	2002-410	25

Push-in type jumper bar; insulated; I_N 25 A; light gray

1 to 3	2002-433	25
1 to 4	2002-434	25
1 to 5	2002-435	25
1 to 6	2002-436	25
1 to 7	2002-437	25
1 to 8	2002-438	25
1 to 9	2002-439	25
1 to 10	2002-440	25

Staggered jumper; insulated; I_N 25 A; light gray

2-way	2002-472	25
3-way	2002-473	25
4-way	2002-474	25
5-way	2002-475	25
6-way	2002-476	25
7-way	2002-477	25
8-way	2002-478	25
9-way	2002-479	25
10-way	2002-480	25
11-way	2002-481	25
12-way	2002-482	25

Length for 2002-1661 – 66.5 mm / 2.62 inch 2-conductor carrier terminal block

Length for 2002-1761 – 76.8 mm / 3.02 inch 3-conductor carrier terminal block

Length for 2002-1861 – 87.5 mm / 3.45 inch 4-conductor carrier terminal block

Length for 2002-1961 – 72.9 mm / 2.87 inch 2-conductor carrier terminal block; with additional jumper slot

Please observe the application notes:
Jumpers, from page 152
Marking, from page 588

Approvals and corresponding ratings, visit www.wago.com

Accessories for Carrier Terminal Blocks

Appropriate marking systems: WMB/WMB Inline/Marking strips

WMB marking card; white; 10 strips with 10 markers/card; 5 … 5.2 mm stretchable

plain	793-5501	5

WMB marking card; plain; 10 strips with 10 markers/card; 5 … 5.2 mm stretchable

yellow	793-5501/000-002	5
red	793-5501/000-005	5
blue	793-5501/000-006	5
gray	793-5501/000-007	5
orange	793-5501/000-012	5
light green	793-5501/000-017	5
green	793-5501/000-023	5
violet	793-5501/000-024	5

Screwless end stop; for DIN-35 rail; 6 mm wide

gray	249-116	100 (25)

Screwless end stop; for DIN-35 rail; 10 mm wide

gray	249-117	50 (25)

Connector and Connector Strip TOPJOB® S

1 (1.5) mm²; 2000 Series and 1.5 (2,5) mm²; 2001 Series and 2.5 (4) mm²; 2002 Series

1

Technical Data	
0.14 … 1 (1.5) mm² ❶	24 … 16 AWG
500 V/6 kV/3 ❹	
I_N 13.5 A	
Terminal block width: 3.5 mm / 0.138 inch	
9 … 11 mm / 0.35 … 0.43 inch	

Modular connector; for jumper contact slot; snaps together; gray

	Item No.	Pack. Unit
○ 1-pole	2000-510	100 (25)

Modular connector; with end plate; for jumper contact slot; snaps together; gray
Terminal block width: 5 mm / 0.197 inch

○ 1-pole	2000-511	100 (25)

Spacer module; snaps together; bridges commoned terminal blocks

○ gray	2000-549	100 (25)

connector strip; for jumper contact slot; gray

○ 2-pole	2000-552	25
○ 3-pole	2000-553	25
○ 4-pole	2000-554	25
○ 5-pole	2000-555	10
○ 6-pole	2000-556	10
○ 7-pole	2000-557	10
○ 8-pole	2000-558	10
○ 9-pole	2000-559	10
○ 10-pole	2000-560	10

Accessories; item-specific

WMB Inline; plain; 2,300 WMB markers (3.5 mm)/reel

white	2009-113	1

WMB marking card; white; 10 strips with 10 markers/card; for 3.5 mm terminal block width

plain	793-3501	5

Technical Data	
0.25 … 1.5 (2.5) mm² ❷	22 … 14 AWG
500 V/6 kV/3 ❹	300 V, 15 A
I_N 18 A	
Terminal block width: 4.2 mm / 0.165 inch	
9 … 11 mm / 0.35 … 0.43 inch	

Modular connector; for jumper contact slot; snaps together; gray

	Item No.	Pack. Unit
○ 1-pole	2001-511	100 (25)

Spacer module; snaps together; bridges commoned terminal blocks

○ gray	2001-549	100 (25)

connector strip; for jumper contact slot; gray

○ 2-pole	2001-552	25
○ 3-pole	2001-553	25
○ 4-pole	2001-554	25
○ 5-pole	2001-555	10
○ 6-pole	2001-556	10
○ 7-pole	2001-557	10
○ 8-pole	2001-558	10
○ 9-pole	2001-559	10
○ 10-pole	2001-560	10

Accessories; item-specific

WMB Inline; plain; 2,000 WMB markers (4 mm)/reel; 4 … 4.2 mm stretchable

white	2009-114	1

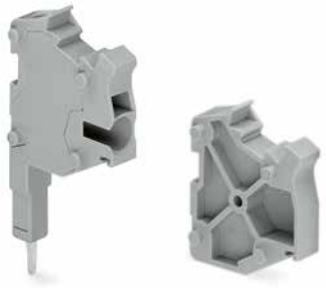
WMB marking card; white; 10 strips with 10 markers/card; 4 … 4.2 mm stretchable

plain	793-4501	5

WMB marking card; plain; 10 strips with 10 markers/card; 4 … 4.2 mm stretchable

yellow	793-4501/000-002	5
red	793-4501/000-005	5
blue	793-4501/000-006	5
gray	793-4501/000-007	5
orange	793-4501/000-012	5
light green	793-4501/000-017	5
green	793-4501/000-023	5
violet	793-4501/000-024	5

Technical Data	
0.25 … 2.5 (4) mm² ❸	22 … 12 AWG
500 V/6 kV/3 ❹	300 V, 20 A
I_N 24 A	
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



Modular connector; for jumper contact slot; snaps together; gray

	Item No.	Pack. Unit
○ 1-pole	2002-511	100 (25)

Spacer module; snaps together; bridges commoned terminal blocks

○ gray	2002-549	100 (25)

connector strip; for jumper contact slot; gray

○ 2-pole	2002-552	25
○ 3-pole	2002-553	25
○ 4-pole	2002-554	25
○ 5-pole	2002-555	10
○ 6-pole	2002-556	10
○ 7-pole	2002-557	10
○ 8-pole	2002-558	10
○ 9-pole	2002-559	10
○ 10-pole	2002-560	10

Accessories; item-specific

WMB Inline, plain; 1,500 WMB markers (5 mm)/reel; 5 … 5.2 mm stretchable

white	2009-115	1

WMB marking card; white; 10 strips with 10 markers/card; 5 … 5.2 mm stretchable

plain	793-5501	5

WMB marking card; plain; 10 strips with 10 markers/card; 5 … 5.2 mm stretchable

yellow	793-5501/000-002	5
red	793-5501/000-005	5
blue	793-5501/000-006	5
gray	793-5501/000-007	5
orange	793-5501/000-012	5
light green	793-5501/000-017	5
green	793-5501/000-023	5
violet	793-5501/000-024	5

PUSH-IN CAGE CLAMP®

Connectors and Connector Strips TOPJOB® S
Installation

❶ Conductor range: 0.14 … 1.5 mm² “s+f-st”;
Push-in termination: 0.5 … 1.5 mm² “s” and
0.5 … 0.75 mm² “insulated ferrules; 12 mm”
Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ Conductor range: 0.25 … 2.5 mm² “s+f-st”;
Push-in termination: 0.75 … 2.5 mm² “s” and
0.75 … 1.5 mm² “insulated ferrules; 12 mm”
Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❸ Conductor range: 0.25 … 4 mm² “s+f-st”;
Push-in termination: 1 … 4 mm² “s” and 1 … 2.5 mm² “insulated ferrules, 12 mm”
Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❹ 500 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

Note:
According to EN 61984, pluggable connectors without a current interrupting capacity must not be mated or unmated when live or under load.

Approvals and corresponding ratings,
visit www.wago.com

Accessories; for connector strips

Appropriate marking systems:
WMB/WMB Inline/Marking strips

End plate; for modular connector; 1.5 mm thick

gray	**2002-541**	100 (25)

Test plug; with 500 mm cable; 2 mm Ø; max. 42 V

red	**210-136**	50

Test plug; with 500 mm cable; 2.3 mm Ø; max. 42 V

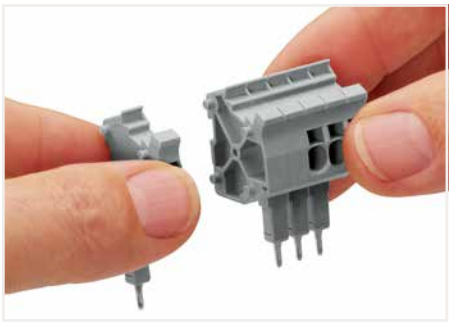
yellow	**210-137**	50

Strain relief plate; gray

35 mm wide	**734-326**	100 (25)
6 mm wide	**734-327**	100 (25)
12.5 mm wide	**734-328**	100 (25)
25 mm wide	**734-329**	100 (25)

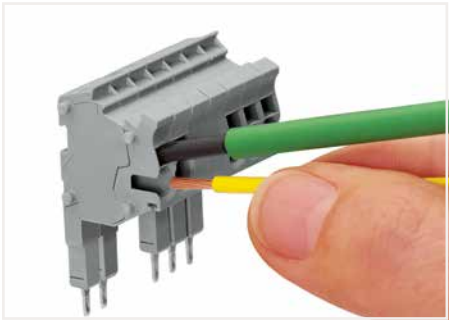
Marking strip; plain; 11 mm wide; 50 m reel

white	**2009-110**	1



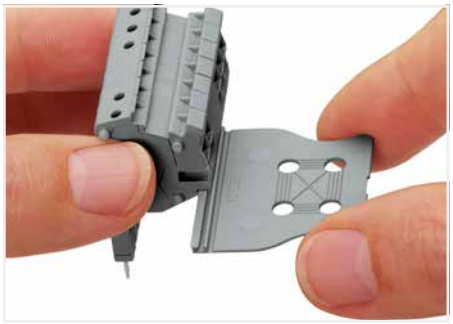
Snapping connectors and spacers together to assemble a multipole connector.

The modular connectors also connect conductors of the same size as the terminal blocks being used.



Operating tool for fine-stranded conductors without ferrules – push-in connection of solid conductors

Connectors with a 2 mm Ø test socket for testing voltage via 2-pole voltage tester



Snapping on a strain relief plate.

Rail-mount terminal block assembly for electric motor wiring

Connector and Connector Strip TOPJOB® S

4 (6) mm²; 2004 Series; 2006 Series; 2010 Series and 2016 Series

1

Technical Data	
0.5 … 4 (6) mm² ❶	22 … 10 AWG
500 V/6 kV/3 ❷	300 V, 15 A
I_N 32 A	
Terminal block width: 6.2 mm / 0.244 inch	
11 … 13 mm / 0.43 … 0.51 inch	

Modular connector; for jumper contact slot; snaps together; gray

	Item No.	Pack. Unit
1-pole	2004-511	100 (25)

Spacer module; snaps together; bridges commoned terminal blocks

gray	2004-549	100 (25)

connector strip; for jumper contact slot; gray

2-pole	2004-552	25
3-pole	2004-553	25
4-pole	2004-554	25
5-pole	2004-555	10

Technical Data	
0.5 … 4 (6) mm² ❶	22 … 10 AWG
500 V/6 kV/3 ❷	
I_N 32 A	
Terminal block width: 7.5 mm / 0.295 inch	
11 … 13 mm / 0.43 … 0.51 inch	

Modular connector; for jumper contact slot; snaps together; gray

	Item No.	Pack. Unit
1-pole	2006-511	50 (25)

Spacer module; snaps together; bridges commoned terminal blocks

gray	2006-549	50 (25)

Technical Data	
0.5 … 4 (6) mm² ❶	22 … 10 AWG
500 V/6 kV/3 ❷	
I_N 32 A	
Terminal block width: 10 mm / 0.394 inch	
11 … 13 mm / 0.43 … 0.51 inch	

Modular connector; for jumper contact slot; snaps together; gray

	Item No.	Pack. Unit
1-pole	2010-511	50 (25)

Spacer module; snaps together; bridges commoned terminal blocks

gray	2010-549	50 (25)

Accessories; item-specific

Test plug; with 500 mm cable; 2.3 mm Ø; max. 42 V

yellow	210-137	50

Accessories, for connector strips

Appropriate marking systems: WMB/WMB Inline/Marking strips

End plate; for modular connector; 1.5 mm thick

gray	2004-541	100 (25)

Test plug; with 500 mm cable; 2 mm Ø; max. 42 V

red	210-136	50

Strain relief plate; gray

35 mm wide	734-326	100 (25)
6 mm wide	734-327	100 (25)
12.5 mm wide	734-328	100 (25)
25 mm wide	734-329	100 (25)

Marking strip; plain; 11 mm wide; 50 m reel

white	2009-110	1

WMB marking card; white; 10 strips with 10 markers/card; 5 … 5.2 mm stretchable

plain	793-5501	5

Technical Data	
0.5 … 4 (6) mm² ❶	22 … 10 AWG
500 V/6 kV/3 ❷	
I_N 32 A	
Terminal block width: 12 mm / 0.472 inch	
11 … 13 mm / 0.43 … 0.51 inch	

❶ Conductor range: 0.5 … 6 mm² “s+f-st”;
Push-in termination: 1.5 … 6 mm² “s” and 1.5 … 4 mm² “insulated ferrules; 12 mm”
Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 500 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

Note:
According to EN 61984, pluggable connectors without a current interrupting capacity must not be mated or unmated when live or under load.

Approvals and corresponding ratings, visit www.wago.com

Modular connector; for jumper contact slot; snaps together; gray

	Item No.	Pack. Unit
◯ 1-pole	**2016-511**	50 (25)

Spacer module; snaps together; bridges commoned terminal blocks

◯ gray	**2016-549**	50 (25)

PUSH-IN CAGE CLAMP®

L-Type Test Plug Module TOPJOB® S for Testing 5.2 mm Wide Rail-Mount Terminal Blocks – via Conductor Entries

2.5 (4) mm²; 2002 Series

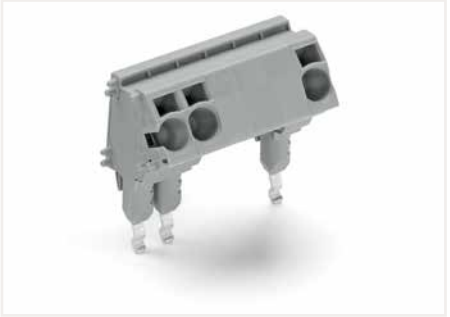
1

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
500 V/6 kV/3 ❷	
I_N 18 A	
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	

❶ Conductor range: 0.25 … 4 mm² "s+f-st";
Push-in termination: 1 … 4 mm² "s" and 1 … 2.5 mm² "insulated ferrules, 12 mm"
Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 500 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

Approvals and corresponding ratings, visit www.wago.com



L-type test plug assembly:
L-type test plug modules and L-type spacer modules (max. 10-pole)
Additionally, terminal blocks can be skipped using spacer modules.

L-type test plug module; snaps together; gray
According to EN 61984, pluggable connectors without a current interrupting capacity must not be mated or unmated when live or under load.

	Item No.	Pack. Unit
◯ 1-pole	2002-611	100 (25)

L-type spacer module; snaps together; bridges commoned terminal blocks

◯ gray	2002-649	100 (25)

L-type test plug modules fitted in a triple-deck terminal block

L-type test plug modules for testing rail-mount terminal blocks via conductor entries

Accessories; for L-type test plug modules

Appropriate marking systems:
WMB/WMB Inline/Mini-WSB

End plate; for modular test plug module; 1.5 mm thick

gray	2002-641	100 (25)

Test plug; with 500 mm cable; 2 mm Ø; max. 42 V

red	210-136	50

Test plug; with 500 mm cable; 2.3 mm Ø; max. 42 V

yellow	210-137	50

Strain relief plate; gray

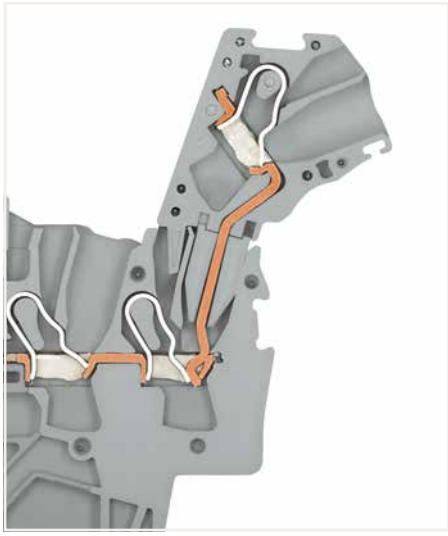
35 mm wide	734-326	100 (25)
6 mm wide	734-327	100 (25)
12.5 mm wide	734-328	100 (25)
25 mm wide	734-329	100 (25)

WMB Inline, plain; 1,500 WMB markers (5 mm)/reel; 5 … 5.2 mm stretchable

white	2009-115	1

WMB marking card; white; 10 strips with 10 markers/card; 5 … 5.2 mm stretchable

plain	793-5501	5



L-type test plug module – cross-sectional view of contacts

Test Plug Adapter and Testing Tap TOPJOB® S
2009 Series

Test plug adapter; for 4 mm Ø test plug; for testing Rail-Mount Terminal Blocks TOPJOB® S
Power must be switched off when installing the test plug adapter. The safety guidelines for working on live installations must be observed.

Color	Item No.	Pack. Unit
gray	**2009-174**	100 (25)

Test plug adapter (2009-174, CAT I) for 4 mm Ø plugs – compatible with 2000 to 2016 Series

Testing tap; for max. 2.5 mm²; connects test cables (0.08 … 2.5 mm²) without tool
Power must be switched off when installing the testing tap. The safety guidelines for working on live installations must be observed.

Color	Item No.	Pack. Unit
gray	**2009-182**	100 (25)

Testing tap (2009-182) for tool-free connection of test cables up to 2.5 mm² (12 AWG) – compatible with 2000 to 2016 Series

Colored Push-In Type Jumper Bar TOPJOB® S
2000 Series and 2002 Series

Push-in type jumper bar; insulated; I_N 14 A; red		
	Item No.	Pack. Unit
2-way	2000-402/000-005	25
3-way	2000-403/000-005	25
4-way	2000-404/000-005	25
5-way	2000-405/000-005	25
6-way	2000-406/000-005	25
7-way	2000-407/000-005	25
8-way	2000-408/000-005	25
9-way	2000-409/000-005	25
10-way	2000-410/000-005	25

Push-in type jumper bar; insulated; I_N 14 A; blue		
	Item No.	Pack. Unit
2-way	2000-402/000-006	25
3-way	2000-403/000-006	25
4-way	2000-404/000-006	25
5-way	2000-405/000-006	25
6-way	2000-406/000-006	25
7-way	2000-407/000-006	25
8-way	2000-408/000-006	25
9-way	2000-409/000-006	25
10-way	2000-410/000-006	25

Push-in type jumper bar; insulated; yellow-green		
	Item No.	Pack. Unit
2-way	2000-402/000-018	25

Push-in type jumper bar; insulated; I_N 25 A; red		
2-way	2002-402/000-005	25
3-way	2002-403/000-005	25
4-way	2002-404/000-005	25
5-way	2002-405/000-005	25
6-way	2002-406/000-005	25
7-way	2002-407/000-005	25
8-way	2002-408/000-005	25
9-way	2002-409/000-005	25
10-way	2002-410/000-005	25

Push-in type jumper bar; insulated; I_N 25 A; blue		
2-way	2002-402/000-006	25
3-way	2002-403/000-006	25
4-way	2002-404/000-006	25
5-way	2002-405/000-006	25
6-way	2002-406/000-006	25
7-way	2002-407/000-006	25
8-way	2002-408/000-006	25
9-way	2002-409/000-006	25
10-way	2002-410/000-006	25

For example, colored push-in type jumper bars are used with sensor terminal blocks.

Adjacent Jumper for Continuous Commoning TOPJOB® S
2002 Series

Technical Data
800 V
I_N 25 A

Adjacent jumper for continuous commoning; insulated; light gray		
	Item No.	Pack. Unit
◯ 2-way	2002-400	25

Technical Data
800 V/8 kV/3
I_N 25 A

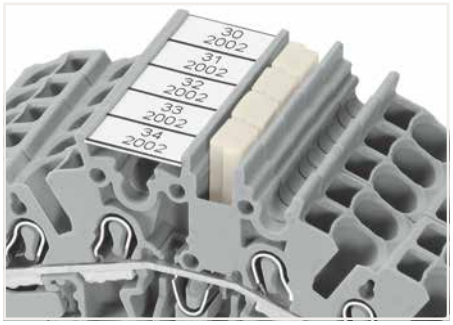
Adjacent jumper for continuous commoning; insulated; 1 to 3		
Color	Item No.	Pack. Unit
◯ light gray	2002-423	25
red	2002-423/000-005	25
blue	2002-423/000-006	25

Technical Data
800 V/8 kV/3
I_N 25 A

Adjacent jumper for continuous commoning; insulated; light gray		
	Item No.	Pack. Unit
◯ 5-way	2002-415	25

Continuous jumpers (2002 Series) readily connect an endless number of terminal blocks to each other via single jumper slot. Use the second jumper slot for additional commoning or testing.

The 1-to-3 adjacent jumper for continuous commoning enables every other terminal block to be commoned. For example, positive and negative potentials can be accommodated alongside each other.



Adjacent jumpers for continuous commoning (2002-400)

Staggered Jumper TOPJOB® S
2002 Series

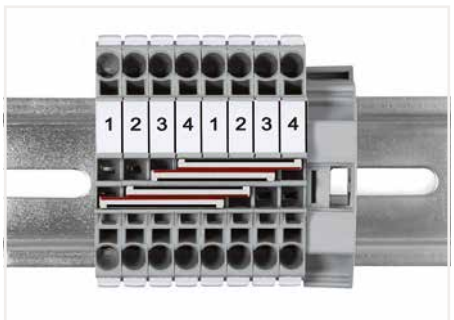
1

Technical Data
400 V/6 kV/3
I_N 25 A

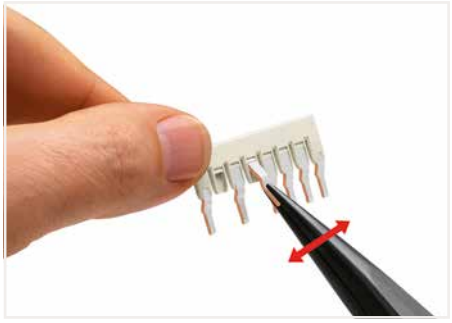
Staggered jumper; insulated; for 2002, 2003 and 2022 Series Rail-Mount Terminal Blocks; light gray		
	Item No.	Pack. Unit
◯ 2-way	2002-472	25
◯ 3-way	2002-473	25
◯ 4-way	2002-474	25
◯ 5-way	2002-475	25
◯ 6-way	2002-476	25
◯ 7-way	2002-477	25
◯ 8-way	2002-478	25
◯ 9-way	2002-479	25
◯ 10-way	2002-480	25
◯ 11-way	2002-481	25
◯ 12-way	2002-482	25

Customized staggered jumper; insulated; with contact lugs broken off at the factory and circuit printing; light gray		
◯ 1-3	2002-473/011-000	25
◯ 1-3-5	2002-475/011-000	25
◯ 1-3-5-7	2002-477/011-000	25
◯ 1-3-5-7-9	2002-479/011-000	25
◯ 1-3-5-7-9-11	2002-481/011-000	25

Commoning using staggered jumpers:
Individual jumper contacts can be broken off by bending them. The remaining piece of insulation will meet requirements for clearances and creepage distances.
Custom staggered jumpers can be created, e.g., for bridging over a terminal block with a different potential. Make sure that only one contact lug is in contact with the terminal block.
The contact lugs of the customized staggered jumpers contact the terminal blocks via the gaps created in the second jumper. Insert and press the ready-made jumper assembly into the jumper slot until it hits backstop.

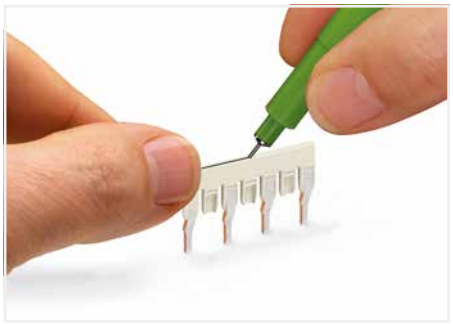


Commoning two potentials in one single jumper slot via extremely slim staggered jumpers.



Staggered jumper (seven contacts):
Individual jumper contacts can be broken off by bending them. The remaining piece of insulation will meet requirements for clearances and creepage distances.

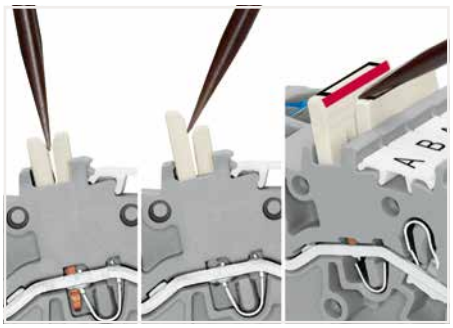
Staggered jumpers (seven contacts)



Staggered jumper:
Marking with a felt-tip pen.

Locate red stripes of the staggered jumpers on the inside. Insert staggered jumper and push down until it hits backstop.

Staggering jumpers in a single jumper slot.
Custom staggered jumpers can be created, e.g., for bridging over a terminal block with a different potential. Make sure that only one contact lug is in contact with the terminal block.
The contact lugs of the customized staggered jumpers contact the terminal blocks via the gaps created in the second jumper. Insert and press the ready-made jumper assembly into the jumper slot until it hits backstop.



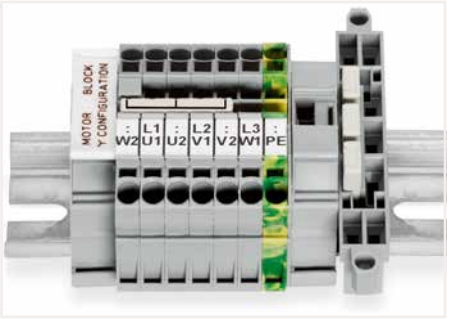
Removing a staggered jumper:
Insert the operating tool between the staggered jumpers, then lift up the jumper.

Star Point Jumper, Delta Jumper and Collective Jumper Carrier TOPJOB® S

Technical Data
800 V/8 kV/3
I_N = I_N terminal block

Star point jumper; insulated; 1-3-5; light gray

	Item No.	Pack. Unit
◯	2000-405/011-000	25
◯	2001-405/011-000	25
◯	2002-405/011-000	25
◯	2004-405/011-000	25
◯	2006-405/011-000	25
◯	2010-405/011-000	25
◯	2016-405/011-000	25



This star point jumper has been specially developed to create a “star point” and is used on motor terminal boards equipped with rail-mount terminal blocks TOPJOB® S.

Technical Data
800 V/8 kV/3
I_N = I_N terminal block

Delta jumper; insulated; 1-2 3-4 5-6; light gray

	Item No.	Pack. Unit
◯	2000-406/020-000	25
◯	2001-406/020-000	25
◯	2002-406/020-000	25
◯	2004-406/020-000	25

This delta jumper has been specially developed to create a delta configuration and is used on motor terminal boards equipped with rail-mount terminal blocks TOPJOB® S.

Collective jumper carrier; for DIN-35 rail; for 2000 to 2016 Series jumpers

Color	Item No.	Pack. Unit
◯ gray	2009-180	25

Collective jumper carrier

Push-In Type Wire Jumper TOPJOB® S
2009 Series

1

Technical Data
800 V/8 kV/3
I_N 9 A

Push-in type wire jumper; insulated; 0.75 mm² conductor cross-section; for 2000 and 2020 Series Rail-Mount Terminal Blocks; gray

	Item No.	Pack. Unit
L = 60 mm	**2009-402**	100 (10)
L = 110 mm	**2009-404**	100 (10)
L = 250 mm	**2009-406**	100 (10)

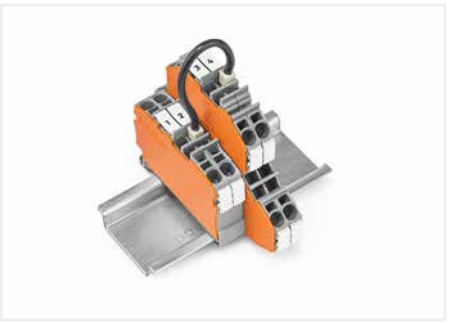
Technical Data
800 V/8 kV/3
I_N 18 A

Push-in type wire jumper; insulated; 1.5 mm² conductor cross-section; for 2001, 2002, 2003 and 2022 Series Rail-Mount Terminal Blocks; black

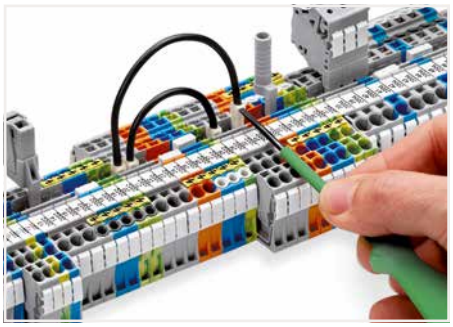
	Item No.	Pack. Unit
L = 60 mm	**2009-412**	100 (10)
L = 110 mm	**2009-414**	100 (10)
L = 250 mm	**2009-416**	100 (10)

Push-in type wire jumper; insulated; L = 110 mm; 1.5 mm² conductor cross-section; for 2001, 2002, 2003 and 2022 Series Rail-Mount Terminal Blocks

Color	Item No.	Pack. Unit
red	**2009-414/000-005**	100 (10)
blue	**2009-414/000-006**	100 (10)



Push-in type wire jumpers common terminal blocks over longer distances and across multiple levels.

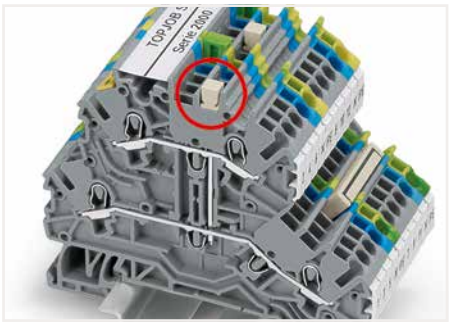


Push down the wire jumper until fully inserted. Lift the jumper with an operating tool for rewiring.

Vertical Jumper TOPJOB® S
2000 Series and 2002 Series

Technical Data
500 V/6 kV/3
I_N 13.5 A

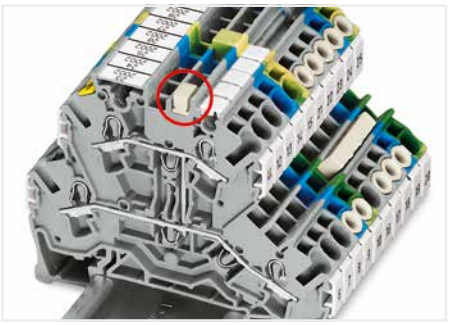
Double-deck vertical jumper; insulated		
Color	Item No.	Pack. Unit
◯ light gray	**2000-492**	100 (25)



Commoning two levels via double-deck vertical jumper (2000-492).

Technical Data
500 V/6 kV/3
I_N 24 A

Double-deck vertical jumper; insulated		
Color	Item No.	Pack. Unit
◯ light gray	**2002-492**	100 (25)
● orange	**2002-492/000-012**	100 (25)



Commoning two levels via double-deck vertical jumper (2002-492).

Technical Data
500 V/6 kV/3
I_N 24 A

Triple-deck vertical jumper; insulated		
Color	Item No.	Pack. Unit
◯ light gray	**2002-493**	100 (25)

Created for double- and triple-deck terminal blocks TOPJOB® S, the vertical jumpers can common two or three levels. Clearly marked numerals ("2" and "3") distinguish the double-deck (2002-492) and triple-deck vertical jumpers (2002-493), even when inserted.

Commoning three levels via triple-deck vertical jumper (2002-493).

Disconnect plug and Blind Plug for Carrier Terminal Block TOPJOB® S
2002 Series and 2006 Series

1

Technical Data
400 V/6 kV/3
I_N 10 A

Disconnect plug for carrier terminal blocks; suitable when using a carrier terminal block as disconnect terminal block

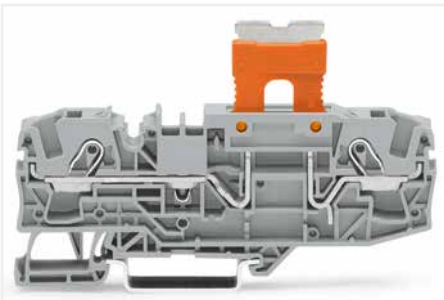
Color	Item No.	Pack. Unit
orange	2002-401	100 (25)

Carrier terminal block (2002-1661) with disconnect plug (2002-401) in operating position

Technical Data
800 V/8 kV/3
I_N 30 A

Disconnect plug for carrier terminal blocks; suitable when using a carrier terminal block as disconnect terminal block

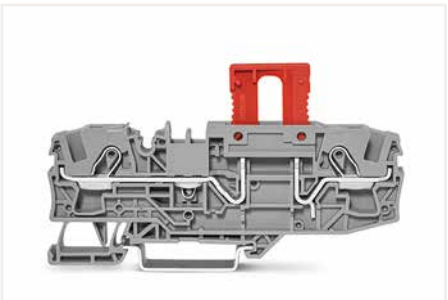
Color	Item No.	Pack. Unit
orange	2006-401	100 (25)
white	2006-401/000-050	100 (25)



Carrier terminal block (2006-401) with disconnect plug (2002-1661) in parked position

Blind plug for carrier terminal block; indicates a disconnection

Color	Item No.	Pack. Unit
red	2006-451	100 (25)

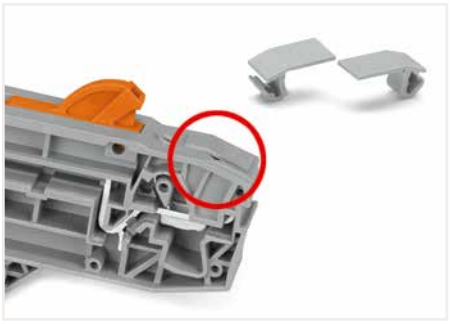


Blind plug (2006-451) for carrier terminal block; indicates a disconnection

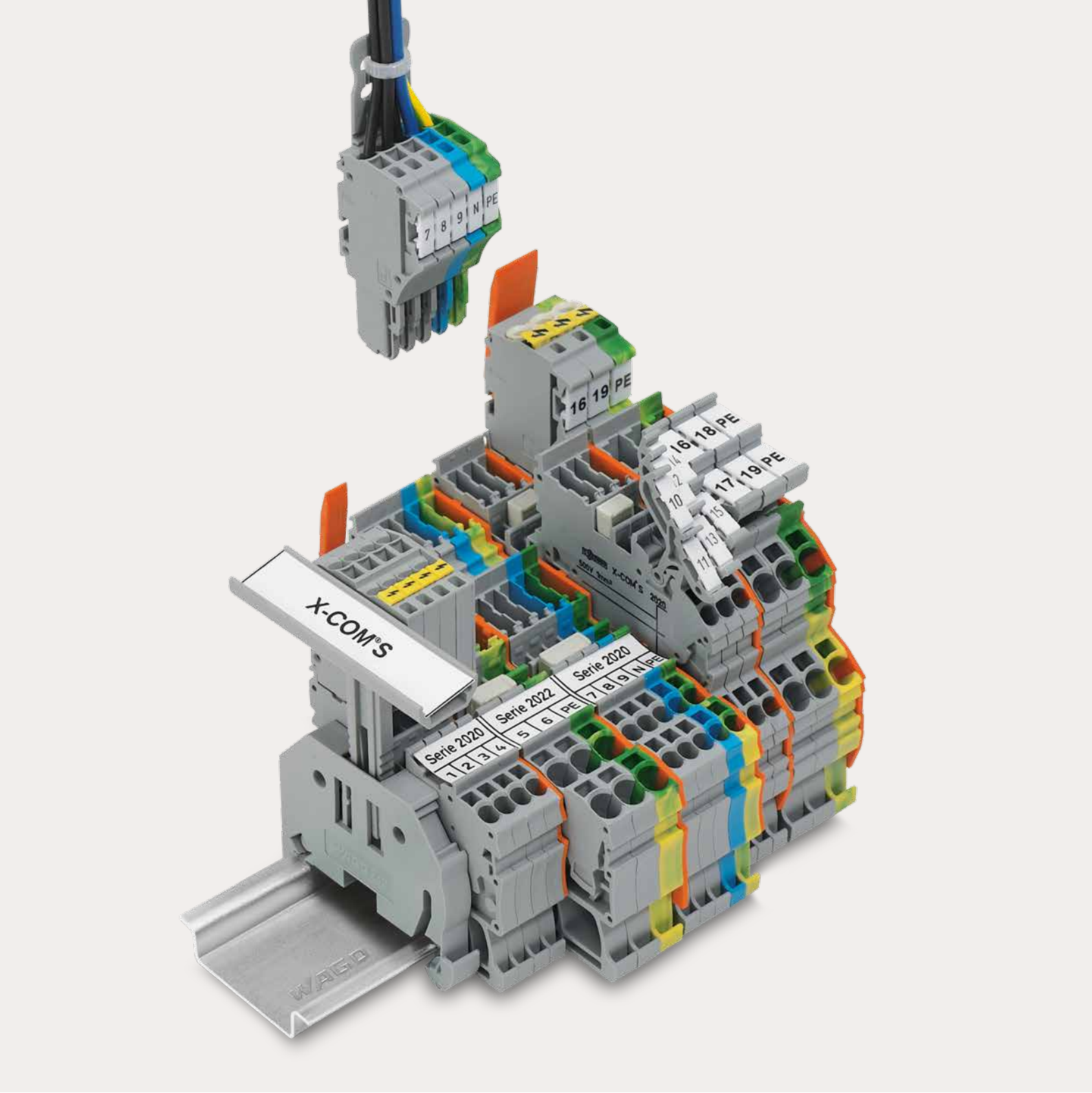
Lockout Cap TOPJOB® S
2006 Series

Lockout cap; for conductor entry and operating slot		
Color	Item No.	Pack. Unit
◯ gray	**2006-191**	25

Cover (2006-191) seals unused conductor entry.



Cover (2006-191) seals unused conductor entry.



WAGO Rail-Mount Terminal Blocks with a Pluggable Connector X-COM®S-SYSTEM

PUSH-IN CAGE CLAMP®

WAGO Rail-Mount Terminal Blocks with a Pluggable Connector X-COM®S-SYSTEM
Front-Entry Wiring

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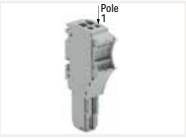	**1- and 2-Conductor Female Plugs** 0.14 … 1 (1.5) mm² (24 … 16 AWG)	2020 Series	168
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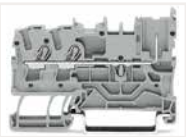	**X-COM®S-SYSTEM** **Through and Ground Conductor Carrier Terminal Blocks** 0.25 … 2.5 (4) mm² (22 … 12 AWG)	2022 Series	180
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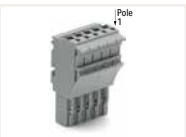	**1-Conductor Female Plugs** 0.25 … 2.5 (4) mm² (22 … 12 AWG)	2022 Series	184
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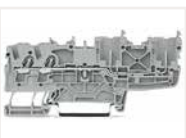	**X-COM®S-SYSTEM, for Ex nA Applications** **Through and Ground Conductor Carrier Terminal Blocks and Double-Deck Carrier Terminal Blocks** 0.25 … 2.5 (4) mm² (22 … 12 AWG)	2022 Series	192 194
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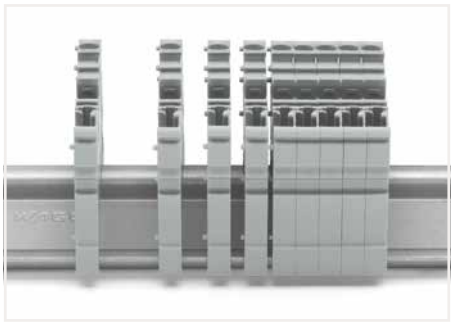
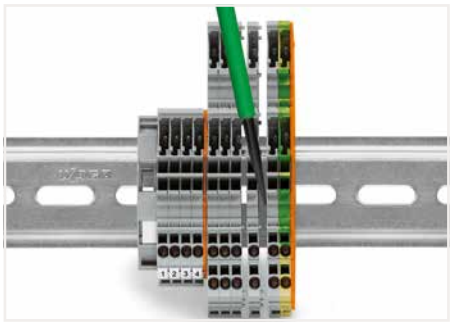
X-COM®S-SYSTEM-MINI; 2020 Series
X-COM®S-SYSTEM; 2022 Series
Description and Installation



Snap individual carrier terminal blocks onto the DIN-rail and slide together.

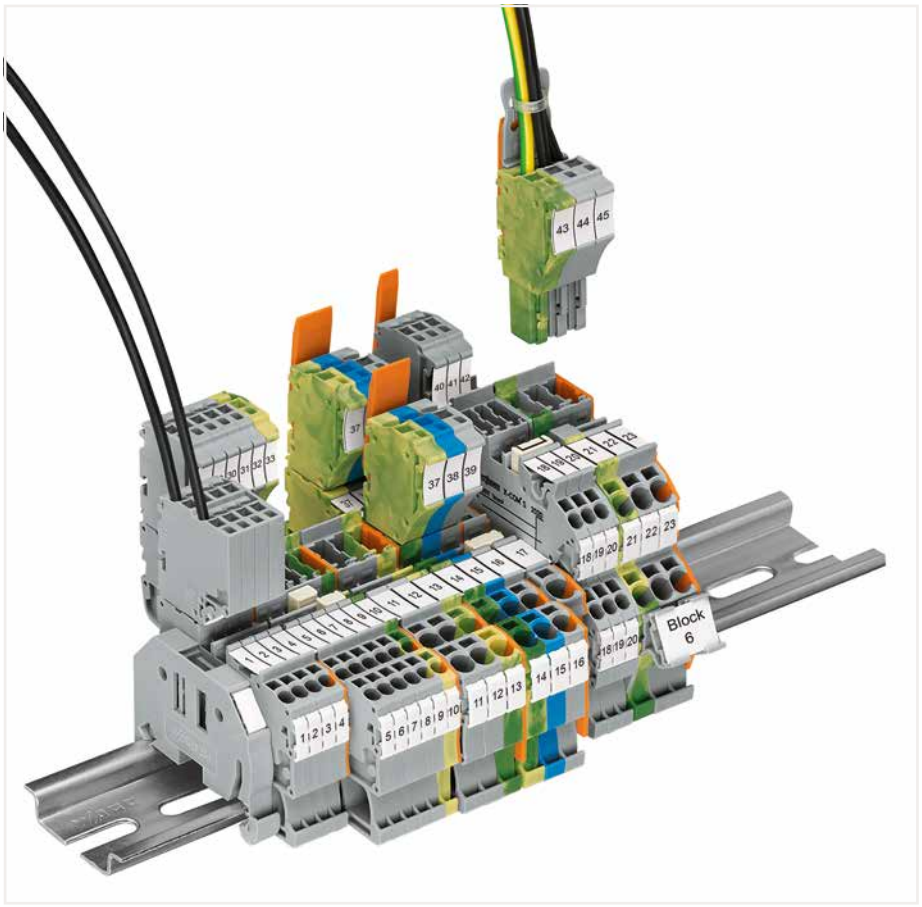
Open the assembly by laterally sliding a block via operating tool (3.5 x 0.5 mm blade).



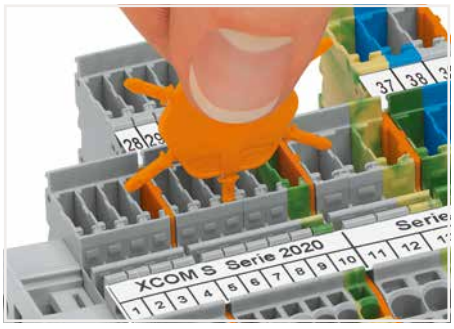
Separate terminal block assembly and slide individual terminal blocks laterally using an operating tool.

Carrier terminal blocks and female plugs are touch-proof.

Push-in CAGE CLAMP® enables solid conductors to be connected by simply pushing them into the unit.

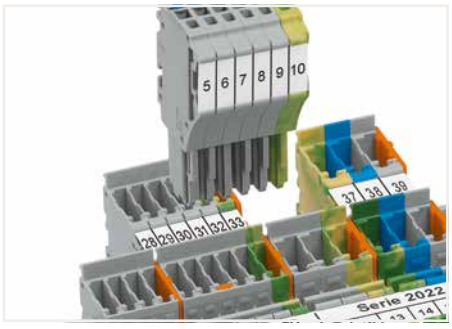


Note: Female plugs used according to the regulations must not be connected/disconnected when live or under load.



Insert coding pin into the corresponding slot and twist it off.

Coding a female plug: remove coding finger using a suitable tool.

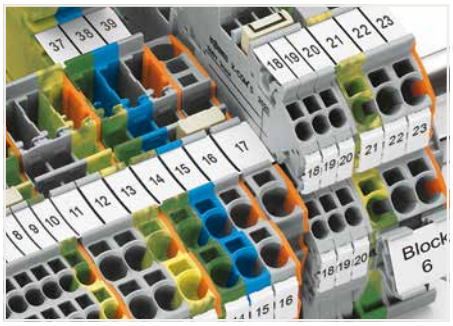


Insert coded female connector into X-COM®S-SYSTEM terminal block assembly.

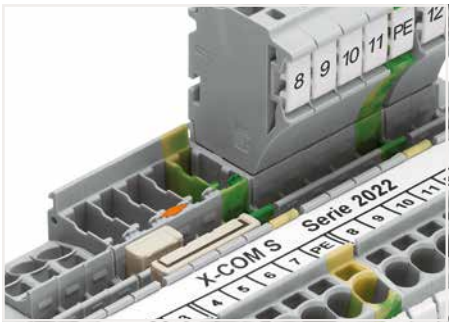
Push-in CAGE CLAMP® terminates the following copper conductors:
solid

stranded

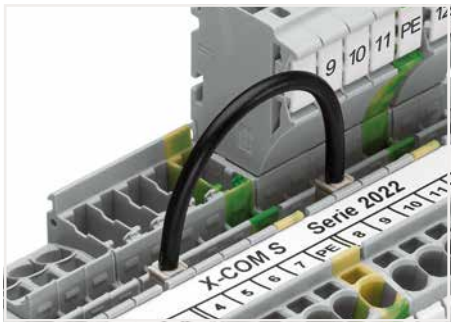
fine-stranded, also with tinned single strands



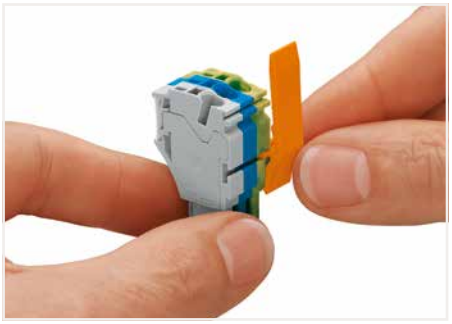
Commoning X-COM®S-SYSTEM Terminal Blocks using jumpers for Terminal Blocks TOPJOB® S. An end plate provides connection to Terminal Blocks TOPJOB® S. 2020 and 2022 Series Terminal Blocks are combinable. Jumper slots are on the same level for both series.



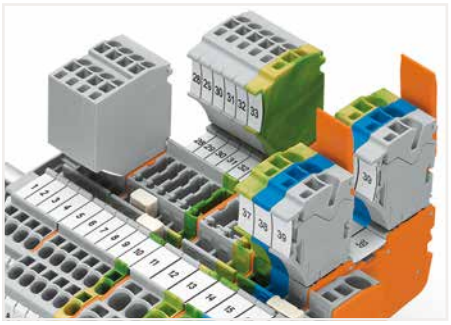
Pairing push-in comb style jumpers.



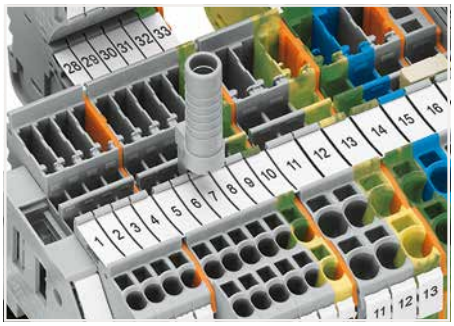
Commoning with push-in type wire jumper.



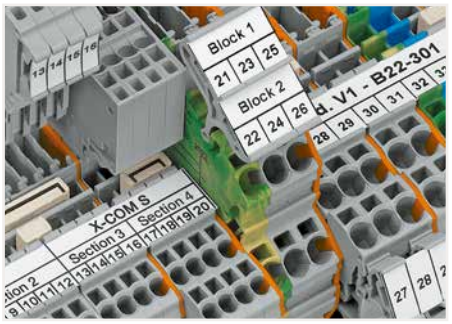
Slide the locking lever into position.



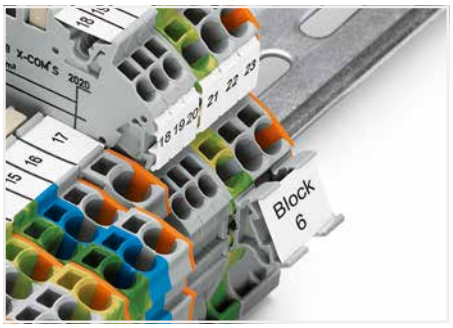
Female plugs can be individually locked.



Test plug adapter (2009-174) for 4 mm test plugs or banana plugs – also suitable for X-COM®S-SYSTEM-MINI Terminal Blocks.



Clear marking via large marking area



Marker carrier (2009-198)

fine-stranded, tip-bonded

fine-stranded, with ferrule (gastight crimped)

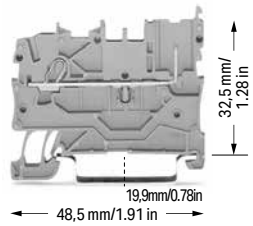
fine-stranded, with pin terminal (gastight crimped)

1-Conductor/1-Pin, 2-Conductor/1-Pin and 2-Conductor/2-Pin Carrier Terminal Block X-COM®S-SYSTEM-MINI

1 (1.5) mm²; 2020 Series

2

Technical Data	
0.14 … 1 (1.5) mm² ❶	24 … 16 AWG
500 V/6 kV/3 ❷	300 V, 10 A
I_N 13.5 A ❸	300 V, 10 A
Terminal block width: 3.5 mm / 0.138 inch	
9 … 11 mm / 0.35 … 0.43 inch	

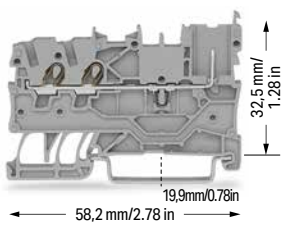


1-conductor/1-pin carrier terminal block		
Color	Item No.	Pack. Unit
gray	2020-1201	50
blue	2020-1204	50

1-conductor/1-pin ground carrier terminal block		
green-yellow	2020-1207	50

Accessories; item-specific			
End and intermediate plate; 1 mm thick			
	orange	2020-1292	100 (25)
	gray	2020-1291	100 (25)

Technical Data	
0.14 … 1 (1.5) mm² ❶	24 … 16 AWG
500 V/6 kV/3 ❷	300 V, 10 A
I_N 13.5 A ❸	300 V, 10 A
Terminal block width: 3.5 mm / 0.138 inch	
9 … 11 mm / 0.35 … 0.43 inch	

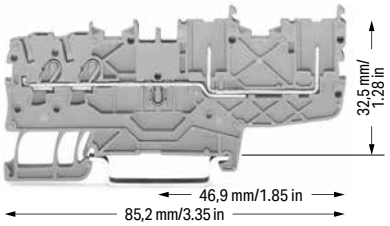


2-conductor/1-pin carrier terminal block		
Color	Item No.	Pack. Unit
gray	2020-1301	50
blue	2020-1304	50

2-conductor/1-pin ground carrier terminal block		
green-yellow	2020-1307	50

Accessories; item-specific			
End and intermediate plate; 1 mm thick			
	orange	2020-1392	100 (25)
	gray	2020-1391	100 (25)

Technical Data	
0.14 … 1 (1.5) mm² ❶	24 … 16 AWG
500 V/6 kV/3 ❷	300 V, 10 A
I_N 13.5 A ❸	300 V, 10 A
Terminal block width: 3.5 mm / 0.138 inch	
9 … 11 mm / 0.35 … 0.43 inch	



2-conductor/2-pin carrier terminal block		
Color	Item No.	Pack. Unit
gray	2020-1401	50
blue	2020-1404	50

2-conductor/2-pin ground carrier terminal block		
green-yellow	2020-1407	50

Accessories; item-specific			
End and intermediate plate; 1 mm thick			
	orange	2020-1492	100 (25)
	gray	2020-1491	100 (25)

Accessories; 2020 Series

Appropriate marking systems: WMB/WMB Inline/Marking strips

Push-in type jumper bar; insulated; I_N 14 A; light gray			
	2-way	2000-402	25
	3-way	2000-403	25
	4-way	2000-404	25
	5-way	2000-405	25
	6-way	2000-406	25
	7-way	2000-407	25
	8-way	2000-408	25
	9-way	2000-409	25
	10-way	2000-410	25

Push-in type jumper bar; insulated; I_N 14 A; light gray			
	1 to 3	2000-433	25
	1 to 4	2000-434	25
	1 to 5	2000-435	25
	1 to 6	2000-436	25
	1 to 7	2000-437	25
	1 to 8	2000-438	25
	1 to 9	2000-439	25
	1 to 10	2000-440	25

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks			
	yellow	2000-115	100 (25)

Delta jumper; insulated; I_N = I_N terminal block; light gray			
	1-2 3-4 5-6	2000-406/020-000	25

Star point jumper; insulated; I_N = I_N terminal block; light gray			
	1-3-5	2000-405/011-000	25

Push-in type wire jumper; insulated; 0.75 mm² conductor cross-section; I_N 9 A			
	L = 60 mm	2009-402	100 (10)
	L = 110 mm	2009-404	100 (10)
	L = 250 mm	2009-406	100 (10)

Carrier with 6 coding pins; for coding female plugs			
	orange	2020-100	100 (25)

Test pin; 1 mm Ø			
		859-500	1

Test plug adapter; for 4 mm Ø test plug			
	gray	2009-174	100 (25)

Banana plug; for 4 mm socket diameter; color mixed; 10 x orange, white, black, blue, yellow; max. 42 V		
	215-111	50

Testing tap; for max. 2.5 mm²			
	gray	2009-182	100 (25)

1-conductor female plug			
	gray	2020-102	100

2-conductor female plug			
	gray	2020-202	100

❶ Conductor range: 0.14 … 1.5 mm² “s+f-st”;
Push-in termination: 0.5 … 1.5 mm² “s” and
0.5 … 0.75 mm² “insulated ferrules; 12 mm”
Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

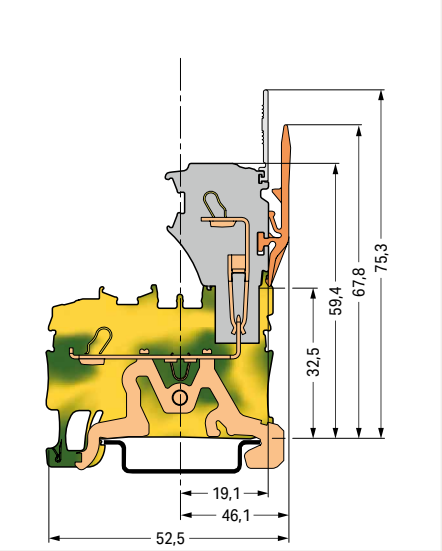
❷ 500 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

❸ Current-carrying capacity curves upon request

Note:
When used as intended, female plugs must not be connected/disconnected when live or under load. An appropriate end plate must be applied to the carrier terminal blocks after each female plug.

Please observe the application notes:
Jumpers, from page 152
Testing accessories, from page 151
Marking, from page 588

Approvals and corresponding ratings, visit www.wago.com



Ground carrier terminal block

Accessories; 2020 Series

Appropriate marking systems:
WMB/WMB Inline/Marking strips

WMB Inline; plain; 2,300 WMB markers (3.5 mm)/reel

white	**2009-113**	1

WMB marking card; white; 10 strips with 10 markers/card; for 3.5 mm terminal block width

plain	**793-3501**	5

Marking strip; plain; 11 mm wide; 50 m reel

white	**2009-110**	1

Screwless end stop; for DIN-35 rail; 6 mm wide

gray	**249-116**	100 (25)

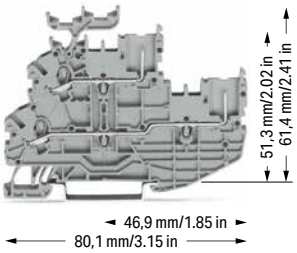
Screwless end stop; for DIN-35 rail; 10 mm wide

gray	**249-117**	50 (25)

1-Conductor/1-Pin Double-Deck Carrier Terminal Block X-COM®S-SYSTEM-MINI
1 (1.5) mm²; 2020 Series

2

Technical Data	
0.14 … 1 (1.5) mm² ❶	24 … 16 AWG
500 V/6 kV/3 ❷	300 V, 10 A
I_N 13.5 A ❸	300 V, 10 A
Terminal block width: 3.5 mm / 0.138 inch	
9 … 11 mm / 0.35 … 0.43 inch	

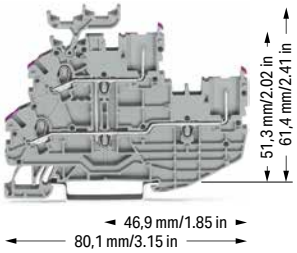


1-conductor/1-pin double-deck carrier terminal block; through/through terminal block; with marker carrier; gray housing

	Item No.	Pack. Unit
L/L	2020-2231	50
N/L	2020-2232	50
L/N	2020-2233	50

1-conductor/1-pin double-deck carrier terminal block; through/through terminal block; without marker carrier; gray housing

	Item No.	Pack. Unit
L/L	2020-2201	50
N/L	2020-2202	50
L/N	2020-2203	50



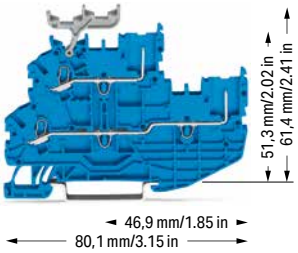
2-conductor/2-pin double-deck carrier terminal block; 2-conductor/2-pin through terminal block; with marker carrier, internally commoned; violet conductor entry; gray housing

	Item No.	Pack. Unit
L	2020-2238	50

2-conductor/2-pin double-deck carrier terminal block; 2-conductor/2-pin through terminal block; without marker carrier, internally commoned; violet conductor entry; gray housing

	Item No.	Pack. Unit
L	2020-2208	50

Technical Data	
0.14 … 1 (1.5) mm² ❶	24 … 16 AWG
500 V/6 kV/3 ❷	300 V, 10 A
I_N 13.5 A ❸	300 V, 10 A
Terminal block width: 3.5 mm / 0.138 inch	
9 … 11 mm / 0.35 … 0.43 inch	

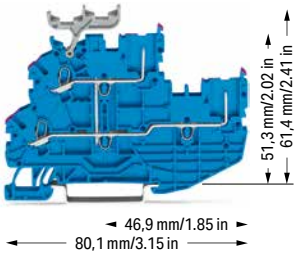


1-conductor/1-pin double-deck carrier terminal block; through/through terminal block; with marker carrier; blue housing

	Item No.	Pack. Unit
N/N	2020-2234	50

1-conductor/1-pin double-deck carrier terminal block; through/through terminal block; without marker carrier; blue housing

	Item No.	Pack. Unit
N/N	2020-2204	50



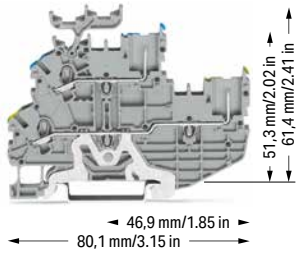
2-conductor/2-pin double-deck carrier terminal block; 2-conductor/2-pin through terminal block; with marker carrier, internally commoned; violet conductor entry; blue housing

	Item No.	Pack. Unit
N	2020-2239	50

2-conductor/2-pin double-deck carrier terminal block; 2-conductor/2-pin through terminal block; without marker carrier, internally commoned; violet conductor entry; blue housing

	Item No.	Pack. Unit
N	2020-2209	50

Technical Data	
0.14 … 1 (1.5) mm² ❶	24 … 16 AWG
500 V/6 kV/3 ❷	300 V, 10 A
I_N 13.5 A ❸	300 V, 10 A
Terminal block width: 3.5 mm / 0.138 inch	
9 … 11 mm / 0.35 … 0.43 inch	

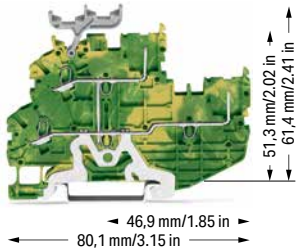


1-conductor/1-pin double-deck carrier terminal block; ground conductor/through terminal block; with marker carrier; gray housing

	Item No.	Pack. Unit
PE/N	2020-2247	50
PE/L	2020-2257	50

1-conductor/1-pin double-deck carrier terminal block; ground conductor/through terminal block; without marker carrier; gray housing

	Item No.	Pack. Unit
PE/N	2020-2217	50
PE/L	2020-2227	50



2-conductor/2-pin double-deck carrier block; 2-conductor/2-pin ground conductor block; with marker carrier; internally commoned; green-yellow housing

	Item No.	Pack. Unit
PE	2020-2237	50

2-conductor/2-pin double-deck carrier block; 2-conductor/2-pin ground conductor block; without marker carrier; internally commoned; green-yellow housing

	Item No.	Pack. Unit
PE	2020-2207	50

❶ Conductor range: 0.14 … 1.5 mm² “s+f-st”;
Push-in termination: 0.5 … 1.5 mm² “s” and
0.5 … 0.75 mm² “insulated ferrules; 12 mm”
Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 500 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

❸ Current-carrying capacity curves upon request

Note:
When used as intended, female plugs must not be connected/disconnected when live or under load. An appropriate end plate must be applied to the carrier terminal blocks after each female plug.

Please observe the application notes:
Jumpers, from page 152
Testing accessories, from page 151
Marking, from page 588

Approvals and corresponding ratings, visit www.wago.com

Accessories; 2020 Series

Appropriate marking systems:
WMB/WMB Inline/Marking strips

End and intermediate plate; 1 mm thick

orange	2020-2292	100 (25)
gray	2020-2291	100 (25)

Push-in type jumper bar; insulated; I_N 14 A; light gray

2-way	2000-402	25
3-way	2000-403	25
4-way	2000-404	25
5-way	2000-405	25
6-way	2000-406	25
7-way	2000-407	25
8-way	2000-408	25
9-way	2000-409	25
10-way	2000-410	25

Push-in type jumper bar; insulated; I_N 14 A; light gray

1 to 3	2000-433	25
1 to 4	2000-434	25
1 to 5	2000-435	25
1 to 6	2000-436	25
1 to 7	2000-437	25
1 to 8	2000-438	25
1 to 9	2000-439	25
1 to 10	2000-440	25

Double-deck vertical jumper; insulated; I_N 13.5 A

light gray	2000-492	100 (25)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks

yellow	2000-115	100 (25)

Carrier with 6 coding pins; for coding female plugs

orange	2020-100	100 (25)

Test pin; 1 mm Ø

	859-500	1

Accessories; 2020 Series

Appropriate marking systems:
WMB/WMB Inline/Marking strips

Test plug adapter; for 4 mm Ø test plug

gray	2009-174	100 (25)

Banana plug; for 4 mm socket diameter; color mixed; 10 x orange, white, black, blue, yellow; max. 42 V

	215-111	50

Testing tap; for max. 2.5 mm²

gray	2009-182	100 (25)

Test plug; with 500 mm cable; 2 mm Ø; max. 42 V

red	210-136	50

Test plug; with 500 mm cable; 2.3 mm Ø; max. 42 V

yellow	210-137	50

1-conductor female plug

gray	2020-102	100

2-conductor female plug

gray	2020-202	100

WMB Inline; plain; 2,300 WMB markers (3.5 mm)/reel

white	2009-113	1

WMB marking card; white; 10 strips with 10 markers/card; for 3.5 mm terminal block width

plain	793-3501	5

Marking strip; plain; 11 mm wide; 50 m reel

white	2009-110	1

Double-deck marker carrier; pivoting

gray	2000-121	50 (25)

Size comparison:
Double-deck carrier terminal blocks with 3.5 mm and 5.2 mm terminal block widths

PUSH-IN CAGE CLAMP®

1-Conductor Female Plug and 2-Conductor Female Plug X-COM®S-SYSTEM-MINI
1 (1.5) mm²; 2020 Series

2

Technical Data	
0.14 … 1 (1.5) mm² ❶	24 … 16 AWG
500 V/6 kV/3 ❷	300 V, 10 A
I_N 13.5 A ❸	300 V, 10 A
Module width: 3.5 mm / 0.138 inch	
9 … 11 mm / 0.35 … 0.43 inch	

Technical Data	
0.14 … 1 (1.5) mm² ❶	24 … 16 AWG
500 V/6 kV/3 ❷	300 V, 10 A
I_N 13.5 A ❸	300 V, 10 A
Module width: 3.5 mm / 0.138 inch	
9 … 11 mm / 0.35 … 0.43 inch	

❶ Conductor range: 0.14 … 1.5 mm² "s+f-st"; Push-in termination: 0.5 … 1.5 mm² "s" and 0.5 … 0.75 mm² "insulated ferrules; 12 mm" Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

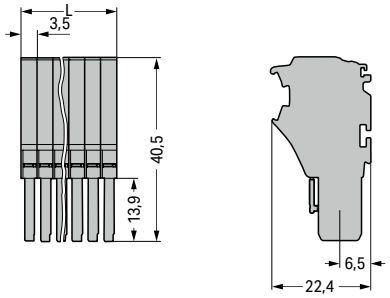
❷ 500 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

❸ Current-carrying capacity curves upon request

Item no. suffixes
blue …/000-006
green-yellow …/000-016

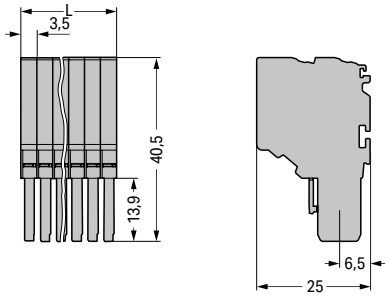
Approvals and corresponding ratings, visit www.wago.com

Dimensions (in mm):

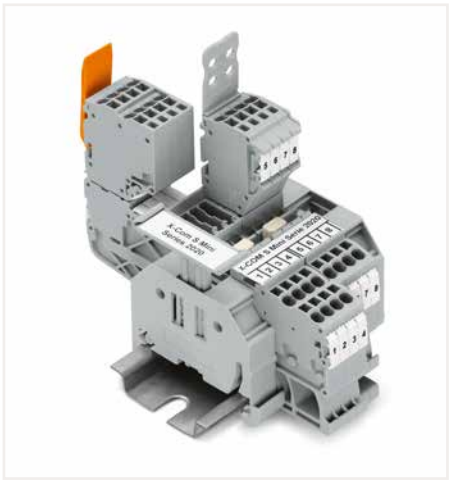


L = (pole no. x module width) + 0.7 mm

Dimensions (in mm):



L = (pole no. x module width) + 0.7 mm



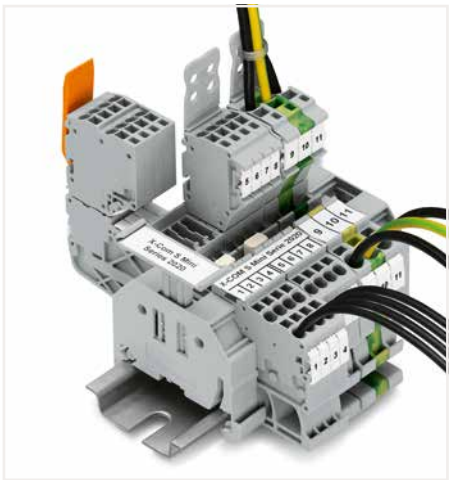
X-COM®S-SYSTEM terminal block assembly

1-conductor female plug; fits into carrier terminal blocks; codable; gray
According to EN 61984, pluggable connectors without a current interrupting capacity must not be mated or unmated when live or under load.
Notice: An appropriate end plate must be applied to the carrier terminal blocks after each female plug.

Pole No.	Item No.	Pack. Unit
2	2020-102	100
3	2020-103	50
4	2020-104	50
5	2020-105	50
6	2020-106	50
7	2020-107	25
8	2020-108	25
9	2020-109	25
10	2020-110	25
11	2020-111	20
12	2020-112	20
13	2020-113	10
14	2020-114	10
15	2020-115	10

2-conductor female plug; fits into carrier terminal blocks; codable; gray
According to EN 61984, pluggable connectors without a current interrupting capacity must not be mated or unmated when live or under load.
Notice: An appropriate end plate must be applied to the carrier terminal blocks after each female plug.

Pole No.	Item No.	Pack. Unit
2	2020-202	100
3	2020-203	50
4	2020-204	50
5	2020-205	50
6	2020-206	25
7	2020-207	25
8	2020-208	25
9	2020-209	25
10	2020-210	25
11	2020-211	20
12	2020-212	20
13	2020-213	10
14	2020-214	10
15	2020-215	10



X-COM®S-SYSTEM terminal block assembly

Accessories; for female plugs

Appropriate marking systems: WMB/WMB Inline/Marking strips

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks

yellow	2000-115	100 (25)

Carrier with 6 coding pins; for coding female plugs

orange	2020-100	100 (25)

Locking lever; 4.8 mm wide

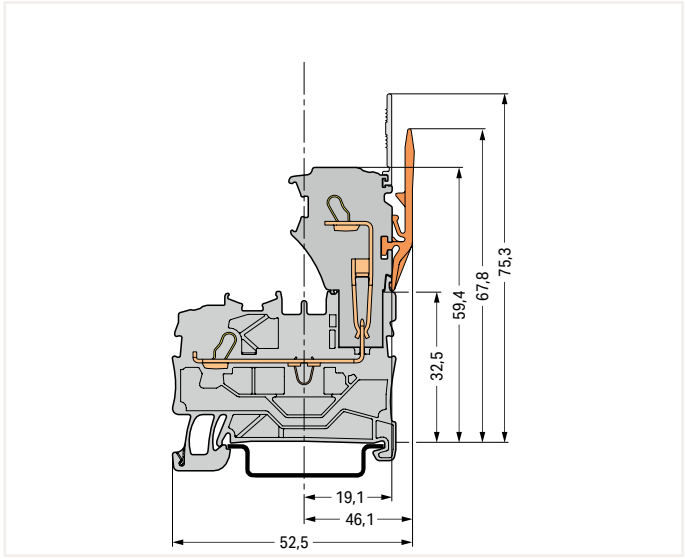
orange	2022-142	100 (25)
gray	2022-141	100 (25)

Locking lever; 9.6 mm wide

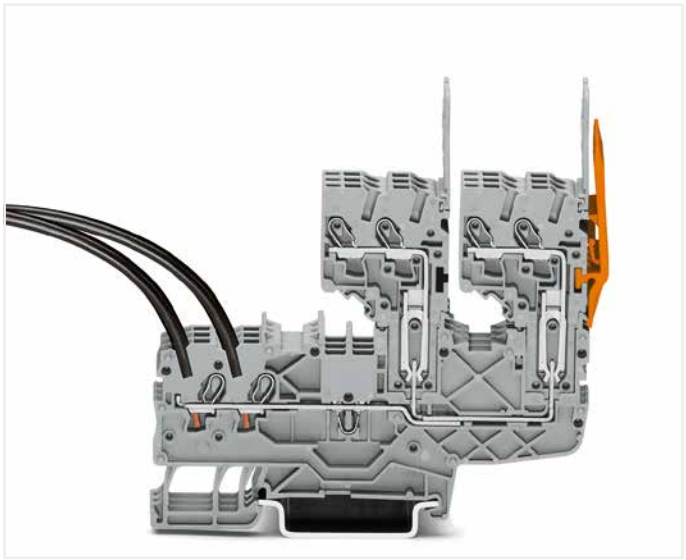
orange	2022-152	100 (25)
gray	2022-151	100 (25)

Carrier Terminal Blocks and 1-/2-Conductor Female Plugs X-COM®S-SYSTEM-MINI
Types of Assembly

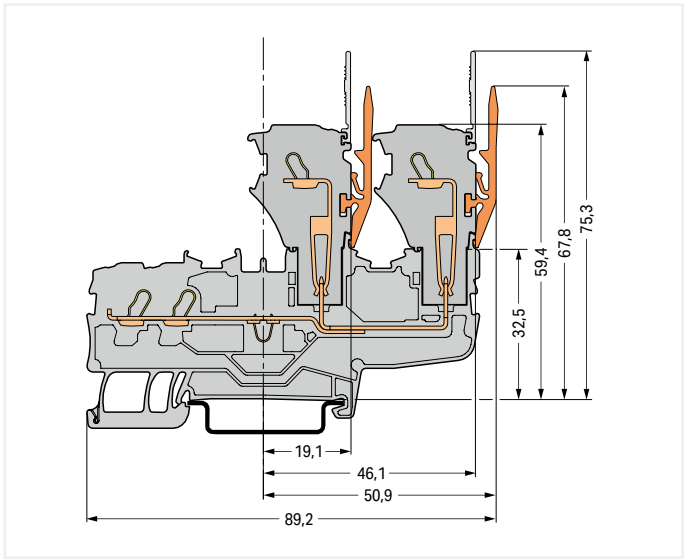
1-conductor female plug
Carrier terminal blocks can be commoned via 2000 Series Push-In Type Jumper Bars and tested via 859-500 Test Pin.



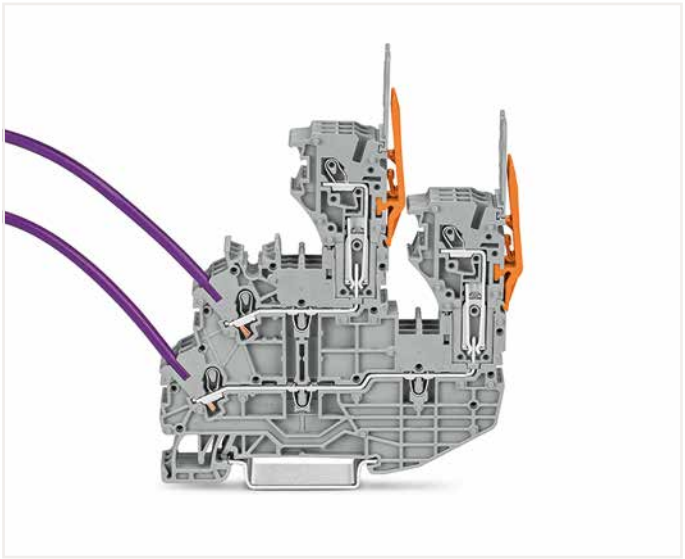
Carrier terminal block



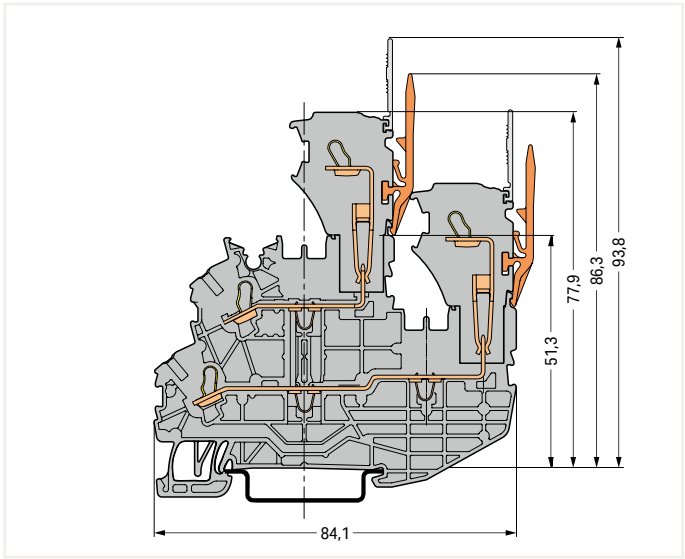
2-conductor female plug
Carrier terminal blocks can be commoned via 2000 Series Push-In Type Jumper Bars and tested via 859-500 Test Pin.



Carrier terminal block



1-conductor female plug
Double-deck carrier terminal blocks can be commoned via 2000 Series Push-In Type Jumper Bars and tested via 859-500 Test Pin.



Double-deck carrier terminal block

Female Plug for Self-Assembly X-COM®S-SYSTEM-MINI
1 (1.5) mm²; 2020 Series

2

Technical Data	
0.14 … 1 (1.5) mm² ❶	24 … 16 AWG
500 V/6 kV/3 ❷	300 V, 10 A
I_N 13.5 A ❸	300 V, 10 A
Terminal block width: 3.5 mm / 0.138 inch	
9 … 11 mm / 0.35 … 0.43 inch	

Technical Data	
0.14 … 1 (1.5) mm² ❶	24 … 16 AWG
500 V/6 kV/3 ❷	300 V, 10 A
I_N 13.5 A ❸	300 V, 10 A
Terminal block width: 3.5 mm / 0.138 inch	
9 … 11 mm / 0.35 … 0.43 inch	

❶ Conductor range: 0.14 … 1.5 mm² "s+f-st"; Push-in termination: 0.5 … 1.5 mm² "s" and 0.5 … 0.75 mm² "insulated ferrules; 12 mm" Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 500 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

❸ Current-carrying capacity curves upon request

Note:
According to EN 61984, pluggable connectors without a current interrupting capacity must not be mated or unmated when live or under load.
Notice: An appropriate end plate must be applied to the carrier terminal blocks after each female plug.

Approvals and corresponding ratings, visit www.wago.com

1-conductor end module; codable

Color	Item No.	Pack. Unit
gray	2020-181	250
blue	2020-184	250
green-yellow	2020-187	250

2-conductor end module; codable

Color	Item No.	Pack. Unit
gray	2020-281	250
blue	2020-284	250
green-yellow	2020-287	250

1-conductor base module; with end plate; codable

gray	2020-161	250
blue	2020-164	250
green-yellow	2020-167	250

2-conductor base module; with end plate; codable

gray	2020-261	250
blue	2020-264	250
green-yellow	2020-267	250

Accessories; for female plugs

Appropriate marking systems: WMB/WMB Inline/Marking strips

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks

yellow	2000-115	100 (25)

Carrier with 6 coding pins; for coding female plugs

orange	2020-100	100 (25)

Locking lever; 4.8 mm wide

orange	2022-142	100 (25)
gray	2022-141	100 (25)

Locking lever; 9.6 mm wide

orange	2022-152	100 (25)
gray	2022-151	100 (25)

Strain relief plate; gray

35 mm wide	734-326	100 (25)
6 mm wide	734-327	100 (25)
12.5 mm wide	734-328	100 (25)
25 mm wide	734-329	100 (25)

WMB Inline; plain; 2,300 WMB markers (3.5 mm)/reel

white	2009-113	1

WMB marking card; white; 10 strips with 10 markers/card; for 3.5 mm terminal block width

plain	793-3501	5

Marking strip; plain; 11 mm wide; 50 m reel

white	2009-110	1

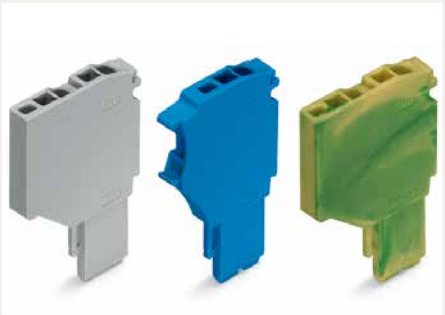
Customizing Modular Female Plugs
WAGO's modular X-COM®S-SYSTEM female plugs can be customized for applications requiring varying numbers of poles (e.g., when designing prototypes).

Modules and Pole Numbers
A customized X-COM®S-SYSTEM-MINI female plug consists of:
- One base module with end plate
- Up to 14 end modules

Intended Use
According to EN 61984, pluggable connectors without a current interrupting capacity must not be mated or unmated when live or under load.

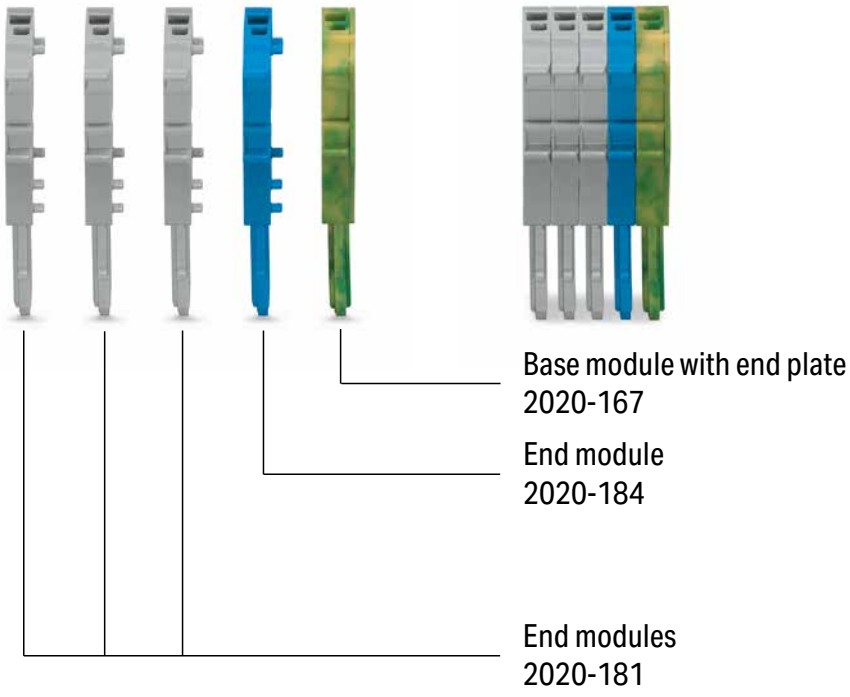
Mounting
The appropriate mounting tool shall be used in order to guarantee that the individual modules are properly attached to each other without damaging the locking latches.

End module



Base module

Example: 5-Pole, 1-Conductor Female Plug



Pre-Assembled 1-Conductor Female Plug X-COM®S-SYSTEM-MINI
1 (1.5) mm²; 2020 Series

2

Technical Data	
0.14 … 1 (1.5) mm² ❶	24 … 16 AWG
500 V/6 kV/3 ❷	300 V, 10 A
I_N 13.5 A ❸	300 V, 10 A
Module width: 3.5 mm / 0.138 inch	
9 … 11 mm / 0.35 … 0.43 inch	

1-conductor female plug; with ground base module (green-yellow); fits into carrier terminal blocks; codable

Pole No.	Item No.	Pack. Unit
3	2020-103/000-036	50
4	2020-104/000-036	50
5	2020-105/000-036	50
6	2020-106/000-036	50
7	2020-107/000-036	25
8	2020-108/000-036	25
9	2020-109/000-036	25
10	2020-110/000-036	25
11	2020-111/000-036	20
12	2020-112/000-036	20
13	2020-113/000-036	10
14	2020-114/000-036	10
15	2020-115/000-036	10

Technical Data	
0.14 … 1 (1.5) mm² ❶	24 … 16 AWG
500 V/6 kV/3 ❷	300 V, 10 A
I_N 13.5 A ❸	300 V, 10 A
Module width: 3.5 mm / 0.138 inch	
9 … 11 mm / 0.35 … 0.43 inch	

1-conductor female plug; with ground end module (green-yellow); fits into carrier terminal blocks; codable

Pole No.	Item No.	Pack. Unit
3	2020-103/000-037	50
4	2020-104/000-037	50
5	2020-105/000-037	50
6	2020-106/000-037	50
7	2020-107/000-037	25
8	2020-108/000-037	25
9	2020-109/000-037	25
10	2020-110/000-037	25
11	2020-111/000-037	20
12	2020-112/000-037	20
13	2020-113/000-037	10
14	2020-114/000-037	10
15	2020-115/000-037	10

Technical Data	
0.14 … 1 (1.5) mm² ❶	24 … 16 AWG
500 V/6 kV/3 ❷	300 V, 10 A
I_N 13.5 A ❸	300 V, 10 A
Module width: 3.5 mm / 0.138 inch	
9 … 11 mm / 0.35 … 0.43 inch	

1-conductor female plug; with ground base module (green-yellow); fits into carrier terminal blocks; codable

Pole No.	Item No.	Pack. Unit
3	2020-103/000-038	50
4	2020-104/000-038	50
5	2020-105/000-038	50
6	2020-106/000-038	50
7	2020-107/000-038	25
8	2020-108/000-038	25
9	2020-109/000-038	25
10	2020-110/000-038	25
11	2020-111/000-038	20
12	2020-112/000-038	20
13	2020-113/000-038	10
14	2020-114/000-038	10
15	2020-115/000-038	10

Accessories; for female plugs

Appropriate marking systems: WMB/WMB Inline/Marking strips

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks

yellow	2000-115	100 (25)

Carrier with 6 coding pins; for coding female plugs

orange	2020-100	100 (25)

Locking lever; 4.8 mm wide

orange	2022-142	100 (25)
gray	2022-141	100 (25)

Locking lever; 9.6 mm wide

orange	2022-152	100 (25)
gray	2022-151	100 (25)

Strain relief plate; gray

35 mm wide	734-326	100 (25)
6 mm wide	734-327	100 (25)
12.5 mm wide	734-328	100 (25)
25 mm wide	734-329	100 (25)

WMB Inline; plain; 2,300 WMB markers (3.5 mm)/reel

white	2009-113	1

WMB marking card; white; 10 strips with 10 markers/card; for 3.5 mm terminal block width

plain	793-3501	5

Marking strip; plain; 11 mm wide; 50 m reel

white	2009-110	1

Technical Data	
0.14 … 1 (1.5) mm² ❶	24 … 16 AWG
500 V/6 kV/3 ❷	300 V, 10 A
I_N 13.5 A ❸	300 V, 10 A
Module width: 3.5 mm / 0.138 inch	
9 … 11 mm / 0.35 … 0.43 inch	

❶ Conductor range: 0.14 … 1.5 mm² “s+f-st”;
Push-in termination: 0.5 … 1.5 mm² “s” and
0.5 … 0.75 mm² “insulated ferrules; 12 mm”
Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 500 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

❸ Current-carrying capacity curves upon request

Note:
According to EN 61984, pluggable connectors without a current interrupting capacity must not be mated or unmated when live or under load.
Notice: An appropriate end plate must be applied to the carrier terminal blocks after each female plug.

Approvals and corresponding ratings,
visit www.wago.com

1-conductor female plug; with ground end module (green-yellow); fits into carrier terminal blocks; codable

Pole No.	Item No.	Pack. Unit
3	2020-103/000-039	50
4	2020-104/000-039	50
5	2020-105/000-039	50
6	2020-106/000-039	50
7	2020-107/000-039	25
8	2020-108/000-039	25
9	2020-109/000-039	25
10	2020-110/000-039	25
11	2020-111/000-039	20
12	2020-112/000-039	20
13	2020-113/000-039	10
14	2020-114/000-039	10
15	2020-115/000-039	10

Pre-Assembled 2-Conductor Female Plug X-COM®S-SYSTEM-MINI
1 (1.5) mm²; 2020 Series

2

Technical Data	
0.14 … 1 (1.5) mm² ❶	24 … 16 AWG
500 V/6 kV/3 ❷	300 V, 10 A
I_N 13.5 A ❸	300 V, 10 A
Module width: 3.5 mm / 0.138 inch	
9 … 11 mm / 0.35 … 0.43 inch	

2-conductor female plug; with ground base module (green-yellow); fits into carrier terminal blocks; codable		
Pole No.	Item No.	Pack. Unit
3	2020-203/000-036	50
4	2020-204/000-036	50
5	2020-205/000-036	50
6	2020-206/000-036	50
7	2020-207/000-036	25
8	2020-208/000-036	25
9	2020-209/000-036	25
10	2020-210/000-036	25
11	2020-211/000-036	20
12	2020-212/000-036	20
13	2020-213/000-036	10
14	2020-214/000-036	10
15	2020-215/000-036	

Technical Data	
0.14 … 1 (1.5) mm² ❶	24 … 16 AWG
500 V/6 kV/3 ❷	300 V, 10 A
I_N 13.5 A ❸	300 V, 10 A
Module width: 3.5 mm / 0.138 inch	
9 … 11 mm / 0.35 … 0.43 inch	

2-conductor female plug; with ground end module (green-yellow); fits into carrier terminal blocks; codable		
Pole No.	Item No.	Pack. Unit
3	2020-203/000-037	50
4	2020-204/000-037	50
5	2020-205/000-037	50
6	2020-206/000-037	50
7	2020-207/000-037	25
8	2020-208/000-037	25
9	2020-209/000-037	25
10	2020-210/000-037	25
11	2020-211/000-037	20
12	2020-212/000-037	20
13	2020-213/000-037	10
14	2020-214/000-037	10
15	2020-215/000-037	10

Technical Data	
0.14 … 1 (1.5) mm² ❶	24 … 16 AWG
500 V/6 kV/3 ❷	300 V, 10 A
I_N 13.5 A ❸	300 V, 10 A
Module width: 3.5 mm / 0.138 inch	
9 … 11 mm / 0.35 … 0.43 inch	

2-conductor female plug; with ground base module (green-yellow); fits into carrier terminal blocks; codable		
Pole No.	Item No.	Pack. Unit
3	2020-203/000-038	50
4	2020-204/000-038	50
5	2020-205/000-038	50
6	2020-206/000-038	50
7	2020-207/000-038	25
8	2020-208/000-038	25
9	2020-209/000-038	25
10	2020-210/000-038	25
11	2020-211/000-038	20
12	2020-212/000-038	20
13	2020-213/000-038	10
14	2020-214/000-038	10
15	2020-215/000-038	10

Accessories; for female plugs

Appropriate marking systems: WMB/WMB Inline/Marking strips

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks

yellow	2000-115	100 (25)

Carrier with 6 coding pins; for coding female plugs

orange	2020-100	100 (25)

Locking lever; 4.8 mm wide

orange	2022-142	100 (25)
gray	2022-141	100 (25)

Locking lever; 9.6 mm wide

orange	2022-152	100 (25)
gray	2022-151	100 (25)

Strain relief plate; gray

35 mm wide	734-326	100 (25)
6 mm wide	734-327	100 (25)
12.5 mm wide	734-328	100 (25)
25 mm wide	734-329	100 (25)

WMB Inline; plain; 2,300 WMB markers (3.5 mm)/reel

white	2009-113	1

WMB marking card; white; 10 strips with 10 markers/card; for 3.5 mm terminal block width

plain	793-3501	5

Marking strip; plain; 11 mm wide; 50 m reel

white	2009-110	1

Technical Data	
0.14 … 1 (1.5) mm² ❶	24 … 16 AWG
500 V/6 kV/3 ❷	300 V, 10 A
I_N 13.5 A ❸	300 V, 10 A
Module width: 3.5 mm / 0.138 inch	
9 … 11 mm / 0.35 … 0.43 inch	

❶ Conductor range: 0.14 … 1.5 mm² “s+f-st”;
Push-in termination: 0.5 … 1.5 mm² “s” and
0.5 … 0.75 mm² “insulated ferrules; 12 mm”
Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 500 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

❸ Current-carrying capacity curves upon request

Note:
According to EN 61984, pluggable connectors without a current interrupting capacity must not be mated or unmated when live or under load.
Notice: An appropriate end plate must be applied to the carrier terminal blocks after each female plug.

Approvals and corresponding ratings,
visit www.wago.com

2-conductor female plug; with ground end module (green-yellow); fits into carrier terminal blocks; codable

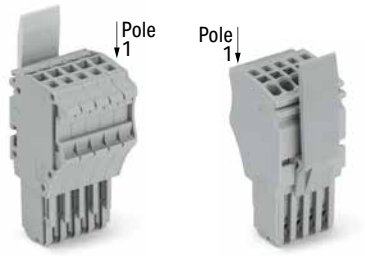
Pole No.	Item No.	Pack. Unit
3	2020-203/000-039	50
4	2020-204/000-039	50
5	2020-205/000-039	50
6	2020-206/000-039	50
7	2020-207/000-039	25
8	2020-208/000-039	25
9	2020-209/000-039	25
10	2020-210/000-039	25
11	2020-211/000-039	20
12	2020-212/000-039	20
13	2020-213/000-039	10
14	2020-214/000-039	10
15	2020-215/000-039	10

1-Conductor Female Plug X-COM®S-SYSTEM-MINI; with Lateral Locking Lever and Strain Relief Plate

1 (1.5) mm²; 2020 Series

2

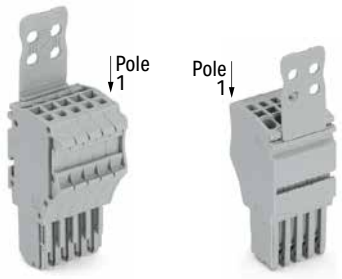
Technical Data	
0.14 … 1 (1.5) mm² ❶	24 … 16 AWG
500 V/6 kV/3 ❷	300 V, 10 A
I_N 13.5 A ❸	300 V, 10 A
Module width: 3.5 mm / 0.138 inch	
9 … 11 mm / 0.35 … 0.43 inch	



1-conductor female plug; with locking lever; fits into carrier terminal blocks; codable; gray

Pole No.	Item No.	Pack. Unit
2	2020-102/122-000	100
3	2020-103/122-000	50
4	2020-104/124-000	50
5	2020-105/124-000	50
6	2020-106/124-000	25
7	2020-107/124-000	25
8	2020-108/124-000	25
9	2020-109/124-000	25
10	2020-110/125-000	25
11	2020-111/125-000	20
12	2020-112/125-000	20
13	2020-113/125-000	10
14	2020-114/125-000	10
15	2020-115/125-000	10

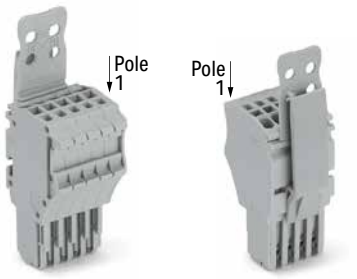
Technical Data	
0.14 … 1 (1.5) mm² ❶	24 … 16 AWG
500 V/6 kV/3 ❷	300 V, 10 A
I_N 13.5 A ❸	300 V, 10 A
Module width: 3.5 mm / 0.138 inch	
9 … 11 mm / 0.35 … 0.43 inch	



1-conductor female plug; with strain relief plate; fits into carrier terminal blocks; codable; gray

Pole No.	Item No.	Pack. Unit
2	2020-102/132-000	100
3	2020-103/132-000	50
4	2020-104/133-000	50
5	2020-105/133-000	50
6	2020-106/133-000	25
7	2020-107/134-000	25
8	2020-108/134-000	25
9	2020-109/134-000	25
10	2020-110/135-000	25
11	2020-111/135-000	20
12	2020-112/135-000	20
13	2020-113/135-000	10
14	2020-114/135-000	10
15	2020-115/135-000	10

Technical Data	
0.14 … 1 (1.5) mm² ❶	24 … 16 AWG
500 V/6 kV/3 ❷	300 V, 10 A
I_N 13.5 A ❸	300 V, 10 A
Module width: 3.5 mm / 0.138 inch	
9 … 11 mm / 0.35 … 0.43 inch	



1-conductor female plug; with strain relief plate and locking lever; fits into carrier terminal blocks; codable; gray

Pole No.	Item No.	Pack. Unit
2	2020-102/142-000	100
3	2020-103/142-000	50
4	2020-104/143-000	50
5	2020-105/143-000	50
6	2020-106/143-000	25
7	2020-107/144-000	25
8	2020-108/144-000	25
9	2020-109/144-000	25
10	2020-110/145-000	25
11	2020-111/145-000	20
12	2020-112/145-000	20
13	2020-113/145-000	10
14	2020-114/145-000	10
15	2020-115/145-000	10

Accessories; for female plugs

Appropriate marking systems: WMB/WMB Inline/Marking strips

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks

yellow	2000-115	100 (25)

Carrier with 6 coding pins; for coding female plugs

orange	2020-100	100 (25)

WMB Inline; plain; 2,300 WMB markers (3.5 mm)/reel

white	2009-113	1

Marking strip; plain; 11 mm wide; 50 m reel

white	2009-110	1

WMB marking card; white; 10 strips with 10 markers/card; for 3.5 mm terminal block width

plain	793-3501	5

❶ Conductor range: 0.14 … 1.5 mm² “s+f-st”;
Push-in termination: 0.5 … 1.5 mm² “s” and
0.5 … 0.75 mm² “insulated ferrules; 12 mm”
Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 500 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

❸ Current-carrying capacity curves upon request

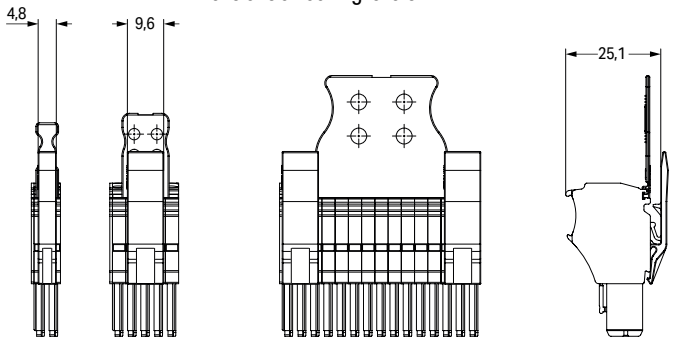
Note:
According to EN 61984, pluggable connectors without a current interrupting capacity must not be mated or unmated when live or under load.
Notice: An appropriate end plate must be applied to the carrier terminal blocks after each female plug.

Approvals and corresponding ratings,
visit www.wago.com

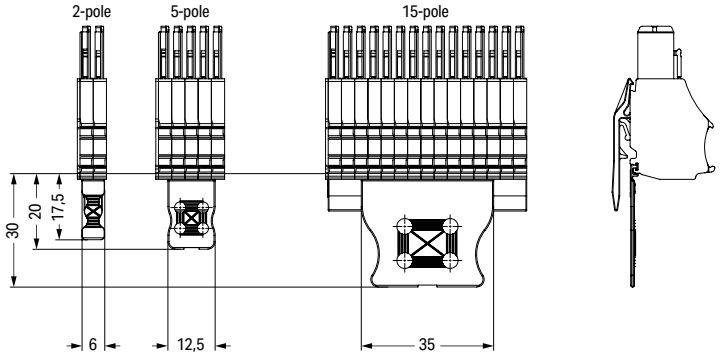
Strain Relief Plate (SRP), Gray			Assembled	Locking Lever (LL), Gray		Assembled		SRP and LL, Gray Assembled
	SRP			Pole No.	Quantity	1-Way	2-Way	
			Item No. Suffix			Item No. Suffix		Item No. Suffix
Item No.	Color	Width						
734-327	gray	6mm	/132-0xx	2 to 3	1	/122-0xx	–	/142-0xx
734-328	gray	12.5mm	/133-0xx	4 to 6	1	–	/124-0xx	/143-0xx
734-329	gray	25mm	/134-0xx	7 to 9	1	–	/124-0xx	/144-0xx
734-326	gray	35mm	/135-0xx	10 to 15	2	–	/125-0xx	/145-0xx

For colored female plugs, the item number suffix “xx” must be replaced by the blue “-006” and the green-yellow “-016” color suffix.

Dimensions of locking levers



Description	Color	Item No.	Suffix No.
1-conductor female plug 2- to 15-pole	gray blue green-yellow	2020-102 to 2020-115	none /000-006 /000-016



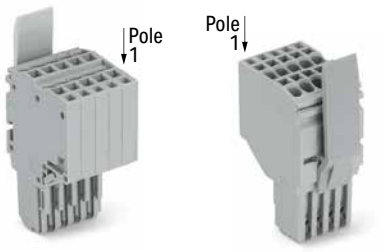
Dimensions of strain relief plates

2-Conductor Female Plug X-COM®S-SYSTEM-MINI; with Lateral Locking Lever and Strain Relief Plate

1 (1.5) mm²; 2020 Series

2

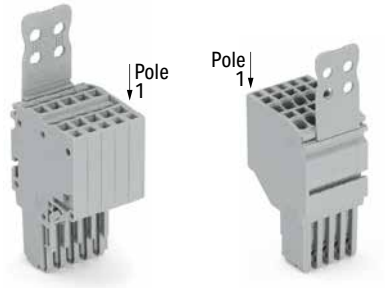
Technical Data	
0.14 … 1 (1.5) mm² ❶	24 … 16 AWG
500 V/6 kV/3 ❷	300 V, 10 A
I_N 13.5 A ❸	300 V, 10 A
Module width: 3.5 mm / 0.138 inch	
9 … 11 mm / 0.35 … 0.43 inch	



2-conductor female plug; with locking lever; fits into carrier terminal blocks; codable; gray

Pole No.	Item No.	Pack. Unit
2	2020-202/122-000	100
3	2020-203/122-000	50
4	2020-204/124-000	50
5	2020-205/124-000	50
6	2020-206/124-000	25
7	2020-207/124-000	25
8	2020-208/124-000	25
9	2020-209/124-000	25
10	2020-210/125-000	25
11	2020-211/125-000	20
12	2020-212/125-000	20
13	2020-213/125-000	10
14	2020-214/125-000	10
15	2020-215/125-000	10

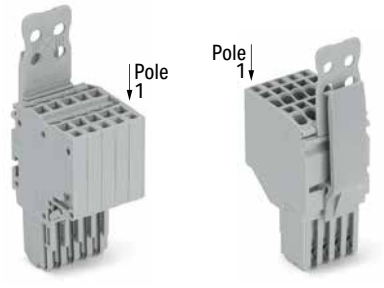
Technical Data	
0.14 … 1 (1.5) mm² ❶	24 … 16 AWG
500 V/6 kV/3 ❷	300 V, 10 A
I_N 13.5 A ❸	300 V, 10 A
Module width: 3.5 mm / 0.138 inch	
9 … 11 mm / 0.35 … 0.43 inch	



2-conductor female plug; with strain relief plate; fits into carrier terminal blocks; codable; gray

Pole No.	Item No.	Pack. Unit
2	2020-202/132-000	100
3	2020-203/132-000	50
4	2020-204/133-000	50
5	2020-205/133-000	50
6	2020-206/133-000	25
7	2020-207/134-000	25
8	2020-208/134-000	25
9	2020-209/134-000	25
10	2020-210/135-000	25
11	2020-211/135-000	20
12	2020-212/135-000	20
13	2020-213/135-000	10
14	2020-214/135-000	10
15	2020-215/135-000	10

Technical Data	
0.14 … 1 (1.5) mm² ❶	24 … 16 AWG
500 V/6 kV/3 ❷	300 V, 10 A
I_N 13.5 A ❸	300 V, 10 A
Module width: 3.5 mm / 0.138 inch	
9 … 11 mm / 0.35 … 0.43 inch	



2-conductor female plug; with strain relief plate and locking lever; fits into carrier terminal blocks; codable; gray

Pole No.	Item No.	Pack. Unit
2	2020-202/142-000	100
3	2020-203/142-000	50
4	2020-204/143-000	50
5	2020-205/143-000	50
6	2020-206/143-000	25
7	2020-207/144-000	25
8	2020-208/144-000	25
9	2020-209/144-000	25
10	2020-210/145-000	25
11	2020-211/145-000	20
12	2020-212/145-000	20
13	2020-213/145-000	10
14	2020-214/145-000	10
15	2020-215/145-000	10

Accessories; for female plugs

Appropriate marking systems: WMB/WMB Inline/Marking strips

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks

yellow	2000-115	100 (25)

Carrier with 6 coding pins; for coding female plugs

orange	2020-100	100 (25)

WMB Inline; plain; 2,300 WMB markers (3.5 mm)/reel

white	2009-113	1

Marking strip; plain; 11 mm wide; 50 m reel

white	2009-110	1

WMB marking card; white; 10 strips with 10 markers/card; for 3.5 mm terminal block width

plain	793-3501	5

❶ Conductor range: 0.14 … 1.5 mm² “s+f-st”;
Push-in termination: 0.5 … 1.5 mm² “s” and
0.5 … 0.75 mm² “insulated ferrules; 12 mm”
Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 500 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

❸ Current-carrying capacity curves upon request

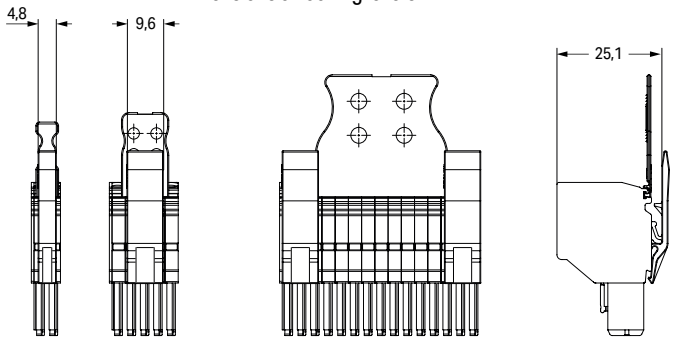
Note:
According to EN 61984, pluggable connectors without a current interrupting capacity must not be mated or unmated when live or under load.
Notice: An appropriate end plate must be applied to the carrier terminal blocks after each female plug.

Approvals and corresponding ratings,
visit www.wago.com

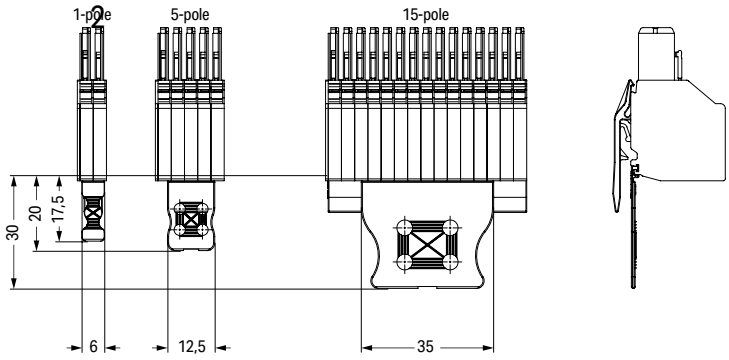
Strain Relief Plate (SRP), Gray			Assembled	Locking Lever (LL), Gray				SRP and LL, Gray Assembled
	SRP			Pole No.	Quantity	1-Way	2-Way	
			Item No. Suffix			Item No. Suffix		Item No. Suffix
Item No.	Color	Width						
734-327	gray	6mm	/132-0xx	2 to 3	1	/122-0xx	–	/142-0xx
734-328	gray	12.5mm	/133-0xx	4 to 6	1	–	/124-0xx	/143-0xx
734-329	gray	25mm	/134-0xx	7 to 9	1	–	/124-0xx	/144-0xx
734-326	gray	35mm	/135-0xx	10 to 15	2	–	/125-0xx	/145-0xx

For colored female plugs, the item number suffix “xx” must be replaced by the blue “-006” and the green-yellow “-016” color suffix.

Dimensions of locking levers



Description	Color	Item No.	Suffix No.
2-conductor female plug 2- to 15-pole	gray blue green-yellow	2020-202 to 2020-215	none /000-006 /000-016



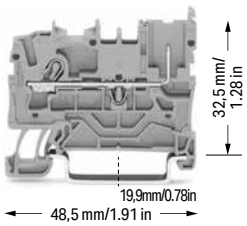
Dimensions of strain relief plates

1-Conductor/1-Pin, 2-Conductor/1-Pin and 2-Conductor/2-Pin Carrier Terminal Block X-COM®S-SYSTEM

2.5 (4) mm²; 2022 Series

2

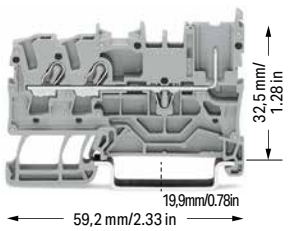
Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
690 V/6 kV/3 ❷	600 V, 20 A
I_N 24 A (32 A) ❸	600 V, 20 A
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



1-conductor/1-pin carrier terminal block		
Color	Item No.	Pack. Unit
gray	2022-1201	100
blue	2022-1204	100
orange	2022-1202	100

1-conductor/1-pin ground carrier terminal block		
green-yellow	2022-1207	100

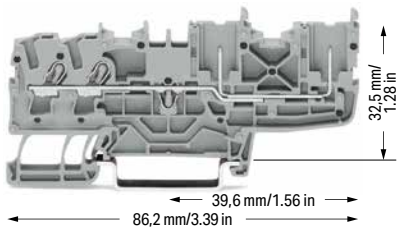
Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
690 V/6 kV/3 ❷	600 V, 20 A
I_N 24 A (32 A) ❸	600 V, 20 A
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



2-conductor/1-pin carrier terminal block		
Color	Item No.	Pack. Unit
gray	2022-1301	100
blue	2022-1304	100
orange	2022-1302	100

2-conductor/1-pin ground carrier terminal block		
green-yellow	2022-1307	100

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
690 V/6 kV/3 ❷	600 V, 20 A
I_N 24 A (28 A) ❸	600 V, 20 A
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



2-conductor/2-pin carrier terminal block		
Color	Item No.	Pack. Unit
gray	2022-1401	50
blue	2022-1404	50
orange	2022-1402	50

2-conductor/2-pin ground carrier terminal block		
green-yellow	2022-1407	50

Accessories; item-specific

End and intermediate plate; 1 mm thick

orange	2022-1292	100 (25)
gray	2022-1291	100 (25)

orange	2022-1392	100 (25)
gray	2022-1391	100 (25)

orange	2022-1492	100 (25)
gray	2022-1491	100 (25)

Accessories; 2022 Series

Appropriate marking systems: WMB/WMB Inline/Marking strips

Insulation stop; 5 pcs/strip; 0.25 … 0.5 mm²

light gray	2002-171	200 (25)

Insulation stop; 5 pcs/strip; 0.75 … 1 mm²

dark gray	2002-172	200 (25)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks

yellow	2002-115	100 (25)

Push-in type jumper bar; insulated; I_N 25 A; light gray

2-way	2002-402	25
3-way	2002-403	25
4-way	2002-404	25
5-way	2002-405	25
6-way	2002-406	25
7-way	2002-407	25
8-way	2002-408	25
9-way	2002-409	25
10-way	2002-410	25

Push-in type jumper bar; insulated; I_N 25 A; light gray

1 to 3	2002-433	25
1 to 4	2002-434	25
1 to 5	2002-435	25
1 to 6	2002-436	25
1 to 7	2002-437	25
1 to 8	2002-438	25
1 to 9	2002-439	25
1 to 10	2002-440	25

Delta jumper; insulated; I_N = I_N terminal block; light gray

1-2 3-4 5-6	2002-406/020-000	25

Star point jumper; insulated; I_N = I_N terminal block; light gray

1-3-5	2002-405/011-000	25

Staggered jumper; insulated; I_N 25 A; light gray

2-way	2002-472	25
3-way	2002-473	25
4-way	2002-474	25
5-way	2002-475	25
6-way	2002-476	25
7-way	2002-477	25
8-way	2002-478	25
9-way	2002-479	25
10-way	2002-480	25
11-way	2002-481	25
12-way	2002-482	25

Adjacent jumper for continuous commoning; insulated; I_N 25 A, light gray

2-way	2002-400	25

Adjacent jumper for continuous commoning; insulated; I_N 25 A; 1 to 3

light gray	2002-423	25
red	2002-423/000-005	25
blue	2002-423/000-006	25

Adjacent jumper for continuous commoning; insulated; I_N 25 A, light gray

5-way	2002-415	25

Push-in type wire jumper; insulated; 1.5 mm² conductor cross-section; I_N 18 A

L = 60 mm	2009-412	100 (10)
L = 110 mm	2009-414	100 (10)
L = 250 mm	2009-416	100 (10)

Carrier with 6 coding pins; for coding female plugs

orange	2022-100	100 (25)

Test pin; 1 mm Ø

	859-500	1

1-conductor female plug

gray	2022-101	200

❶ Conductor range: 0.25 … 4 mm² “s+f-st”;
Push-in termination: 1 … 4 mm² “s” and 1 … 2.5 mm² “insulated ferrules, 12 mm”
Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

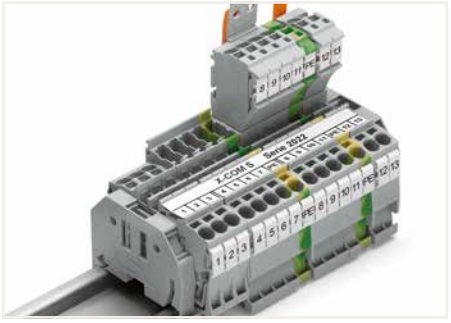
❷ 690 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

❸ Current-carrying capacity curves upon request

Note:
When used as intended, female plugs must not be connected/disconnected when live or under load.

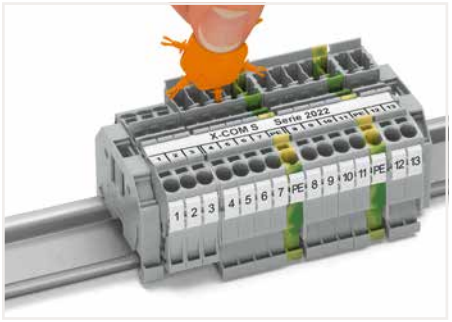
Please observe the application notes:
Jumpers, from page 152
Marking, from page 588

Approvals and corresponding ratings, visit www.wago.com



2022 Series X-COM®S-SYSTEM Carrier Terminal Blocks combined with 2002 Series Through Terminal Blocks

Carrier terminal blocks and female plugs are touch-proof.



Insert coding pin into the corresponding slot and twist it off.

Accessories; 2022 Series

Appropriate marking systems:
WMB/WMB Inline/Marking strips

WMB Inline, plain; 1,500 WMB markers (5 mm)/reel; 5 … 5.2 mm stretchable

white	**2009-115**	1

Marking strip; plain; 11 mm wide; 50 m reel

white	**2009-110**	1

WMB marking card; white; 10 strips with 10 markers/card; 5 … 5.2 mm stretchable

plain	**793-5501**	5

WMB marking card; plain; 10 strips with 10 markers/card; 5 … 5.2 mm stretchable

yellow	**793-5501/000-002**	5
red	**793-5501/000-005**	5
blue	**793-5501/000-006**	5
gray	**793-5501/000-007**	5
orange	**793-5501/000-012**	5
light green	**793-5501/000-017**	5
green	**793-5501/000-023**	5
violet	**793-5501/000-024**	5

Screwless end stop; for DIN-35 rail; 6 mm wide

gray	**249-116**	100 (25)

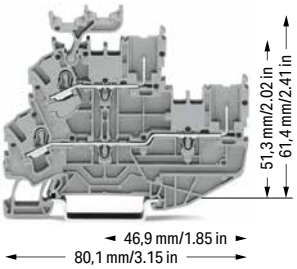
Screwless end stop; for DIN-35 rail; 10 mm wide

gray	**249-117**	50 (25)

1-Conductor/1-Pin Double-Deck Carrier Terminal Block X-COM®S-SYSTEM
2.5 (4) mm²; 2022 Series

2

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
690 V/6 kV/3 ❷	600 V, 20 A
I_N 24 A (28 A) ❸	600 V, 20 A
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	

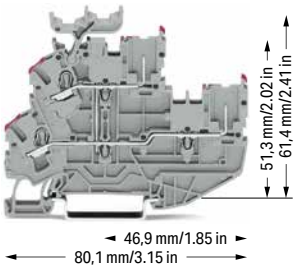


1-conductor/1-pin double-deck carrier terminal block; through/through terminal block; with marker carrier; gray housing

	Item No.	Pack. Unit
L/L	2022-2231	50
N/L	2022-2232	50
L/N	2022-2233	50

1-conductor/1-pin double-deck carrier terminal block; through/through terminal block; without marker carrier; gray housing

	Item No.	Pack. Unit
L/L	2022-2201	50
N/L	2022-2202	50
L/N	2022-2203	50



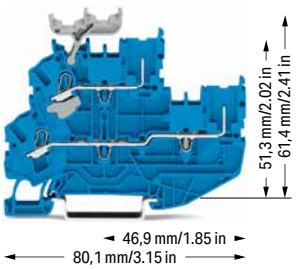
2-conductor/2-pin double-deck carrier terminal block; 2-conductor/2-pin through terminal block; with marker carrier, internally commoned; violet conductor entry; gray housing

	Item No.	Pack. Unit
L	2022-2238	50

2-conductor/2-pin double-deck carrier terminal block; 2-conductor/2-pin through terminal block; without marker carrier, internally commoned; violet conductor entry; gray housing

	Item No.	Pack. Unit
L	2022-2208	50

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
690 V/6 kV/3 ❷	600 V, 20 A
I_N 24 A (28 A) ❸	600 V, 20 A
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	

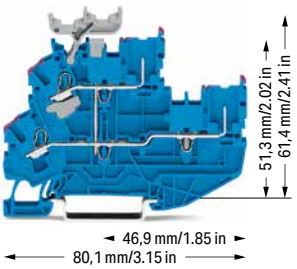


1-conductor/1-pin double-deck carrier terminal block; through/through terminal block; with marker carrier; blue housing

	Item No.	Pack. Unit
N/N	2022-2234	50

1-conductor/1-pin double-deck carrier terminal block; through/through terminal block; without marker carrier; blue housing

	Item No.	Pack. Unit
N/N	2022-2204	50



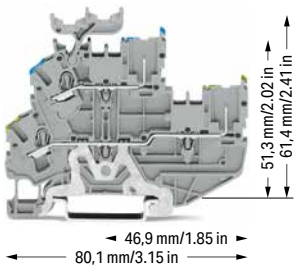
2-conductor/2-pin double-deck carrier terminal block; 2-conductor/2-pin through terminal block; with marker carrier, internally commoned; violet conductor entry; blue housing

	Item No.	Pack. Unit
N	2022-2239	50

2-conductor/2-pin double-deck carrier terminal block; 2-conductor/2-pin through terminal block; without marker carrier, internally commoned; violet conductor entry; blue housing

	Item No.	Pack. Unit
N	2022-2209	50

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
690 V/6 kV/3 ❷	600 V, 20 A
I_N 24 A (28 A) ❸	600 V, 20 A
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	

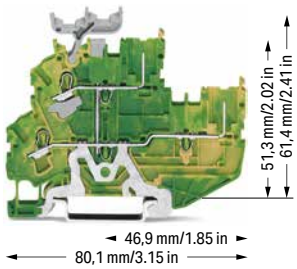


1-conductor/1-pin double-deck carrier terminal block; ground conductor/through terminal block; with marker carrier; gray housing

	Item No.	Pack. Unit
PE/N	2022-2247	50
PE/L	2022-2257	50

1-conductor/1-pin double-deck carrier terminal block; ground conductor/through terminal block; without marker carrier; gray housing

	Item No.	Pack. Unit
PE/N	2022-2217	50
PE/L	2022-2227	50



2-conductor/2-pin double-deck carrier block; 2-conductor/2-pin ground conductor block; with marker carrier; internally commoned; green-yellow housing

	Item No.	Pack. Unit
PE	2022-2237	50

2-conductor/2-pin double-deck carrier block; 2-conductor/2-pin ground conductor block; without marker carrier; internally commoned; green-yellow housing

	Item No.	Pack. Unit
PE	2022-2207	50

❶ Conductor range: 0.25 … 4 mm² “s+f-st”;
Push-in termination: 1 … 4 mm² “s” and 1 … 2.5 mm² “insulated ferrules, 12 mm”
Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 690 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

❸ Current-carrying capacity curves upon request

Note:
When used as intended, female plugs must not be connected/disconnected when live or under load.

Please observe the application notes:
Jumpers, from page 152
Marking, from page 588

Approvals and corresponding ratings, visit www.wago.com

Accessories; 2022 Series

Appropriate marking systems:
WMB/WMB Inline/Marking strips

End and intermediate plate; 1 mm thick

orange	2022-2292	100 (25)
gray	2022-2291	100 (25)

Insulation stop; 5 pcs/strip; 0.25 … 0.5 mm²

light gray	2002-171	200 (25)

Insulation stop; 5 pcs/strip; 0.75 … 1 mm²

dark gray	2002-172	200 (25)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks

yellow	2002-115	100 (25)

Push-in type jumper bar; insulated; I_N 25 A; light gray

2-way	2002-402	25
3-way	2002-403	25
4-way	2002-404	25
5-way	2002-405	25
6-way	2002-406	25
7-way	2002-407	25
8-way	2002-408	25
9-way	2002-409	25
10-way	2002-410	25

Push-in type jumper bar; insulated; I_N 25 A; light gray

1 to 3	2002-433	25
1 to 4	2002-434	25
1 to 5	2002-435	25
1 to 6	2002-436	25
1 to 7	2002-437	25
1 to 8	2002-438	25
1 to 9	2002-439	25
1 to 10	2002-440	25

Double-deck vertical jumper; insulated; I_N 24 A

light gray	2002-492	100 (25)
orange	2002-492/000-012	100 (25)

Accessories; 2022 Series

Appropriate marking systems:
WMB/WMB Inline/Marking strips

Adjacent jumper for continuous commoning; insulated; I_N 25 A, light gray

2-way	2002-400	25

Adjacent jumper for continuous commoning; insulated; I_N 25 A; 1 to 3

light gray	2002-423	25
red	2002-423/000-005	25
blue	2002-423/000-006	25

Adjacent jumper for continuous commoning; insulated; I_N 25 A, light gray

5-way	2002-415	25

Carrier with 6 coding pins; for coding female plugs

orange	2022-100	100 (25)

Test pin; 1 mm Ø

	859-500	1

1-conductor female plug

gray	2022-101	200

WMB Inline, plain; 1,500 WMB markers (5 mm)/reel; 5 … 5.2 mm stretchable

white	2009-115	1

Marking strip; plain; 11 mm wide; 50 m reel

white	2009-110	1

WMB marking card; white; 10 strips with 10 markers/card; 5 … 5.2 mm stretchable

plain	793-5501	5

WMB marking card; plain; 10 strips with 10 markers/card; 5 … 5.2 mm stretchable

yellow	793-5501/000-002	5
red	793-5501/000-005	5
blue	793-5501/000-006	5
gray	793-5501/000-007	5
orange	793-5501/000-012	5
light green	793-5501/000-017	5
green	793-5501/000-023	5
violet	793-5501/000-024	5

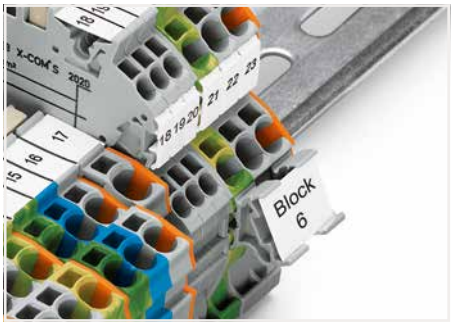
Double-deck marker carrier; pivoting

gray	2002-121	50 (25)

Screwless end stop; for DIN-35 rail; 6 mm wide

gray	249-116	100 (25)

Size comparison:
Double-deck carrier terminal blocks with 3.5 mm and 5.2 mm terminal block widths



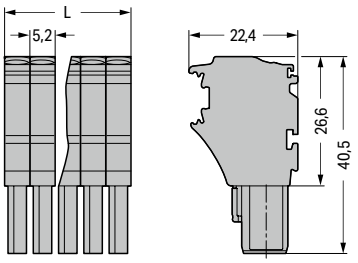
Marker carrier (2009-198)

1-Conductor Female Plug X-COM®S-SYSTEM
2.5 (4) mm²; 2022 Series

2

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
690 V/6 kV/3 ❷	600 V, 20 A
I_N 24 A (32 A) ❸	600 V, 20 A
Module width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	

Dimensions (in mm):



L = pole no. x module width

1-conductor female plug; fits into carrier terminal blocks; codable; gray
According to EN 61984, pluggable connectors without a current interrupting capacity must not be mated or unmated when live or under load.

Pole No.	Item No.	Pack. Unit
1	2022-101	200
2	2022-102	200
3	2022-103	100
4	2022-104	100
5	2022-105	50
6	2022-106	50
7	2022-107	50
8	2022-108	50
9	2022-109	50
10	2022-110	25
11	2022-111	25
12	2022-112	25
13	2022-113	25
14	2022-114	25
15	2022-115	25

1-conductor female plug; fits into carrier terminal blocks; codable; green-yellow
According to EN 61984, pluggable connectors without a current interrupting capacity must not be mated or unmated when live or under load.

1	2022-101/000-016	200
2	2022-102/000-016	200

❶ Conductor range: 0.25 … 4 mm² "s+f-st"; Push-in termination: 1 … 4 mm² "s" and 1 … 2.5 mm² "insulated ferrules, 12 mm" Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 690 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

❸ Current-carrying capacity curves upon request

Item no. suffixes
blue …/000-006
orange …/000-012

Approvals and corresponding ratings, visit www.wago.com

Accessories; for female plugs

Appropriate marking systems:
WMB/WMB Inline/Marking strips

Insulation stop; 5 pcs/strip; 0.25 … 0.5 mm²

light gray	2002-171	200 (25)

Insulation stop; 5 pcs/strip; 0.75 … 1 mm²

dark gray	2002-172	200 (25)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks

yellow	2002-115	100 (25)

Locking lever; 4.8 mm wide

orange	2002-142	100 (25)
gray	2002-141	100 (25)

Locking lever; 9.6 mm wide

orange	2002-152	100 (25)
gray	2002-151	100 (25)

Carrier with 6 coding pins; for coding female plugs

orange	2022-100	100 (25)

Strain relief plate; gray

35 mm wide	734-326	100 (25)
6 mm wide	734-327	100 (25)
12.5 mm wide	734-328	100 (25)
25 mm wide	734-329	100 (25)
55 mm wide	734-430	50 (25)
75 mm wide	734-431	50 (25)

WMB Inline, plain; 1,500 WMB markers (5 mm)/reel; 5 … 5.2 mm stretchable

white	2009-115	1

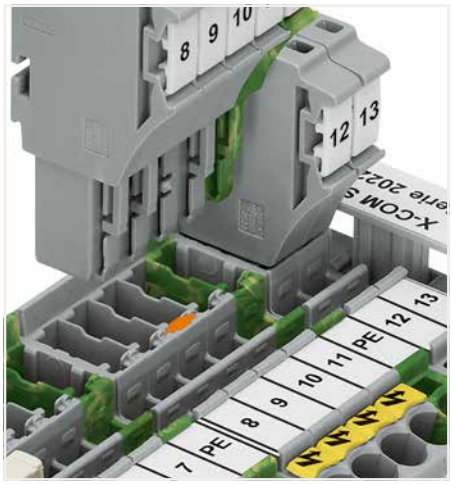
Marking strip; plain; 11 mm wide; 50 m reel

white	2009-110	1

WMB marking card; white; 10 strips with 10 markers/card; 5 … 5.2 mm stretchable

plain	793-5501	5

Coding a female plug: remove coding finger using a suitable tool.

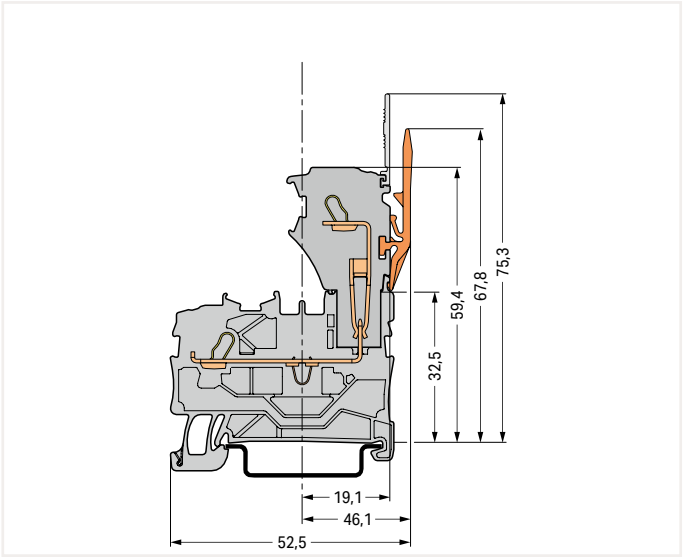


Insert a coding pin (2022-100) into the corresponding location of the carrier terminal block.

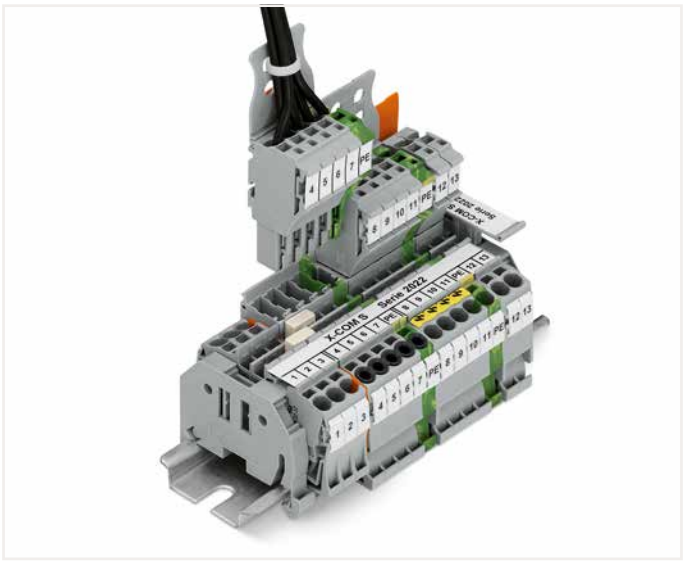
PUSH-IN CAGE CLAMP®

Carrier Terminal Blocks and 1-Conductor Female Plugs X-COM®S-SYSTEM
Types of Assembly

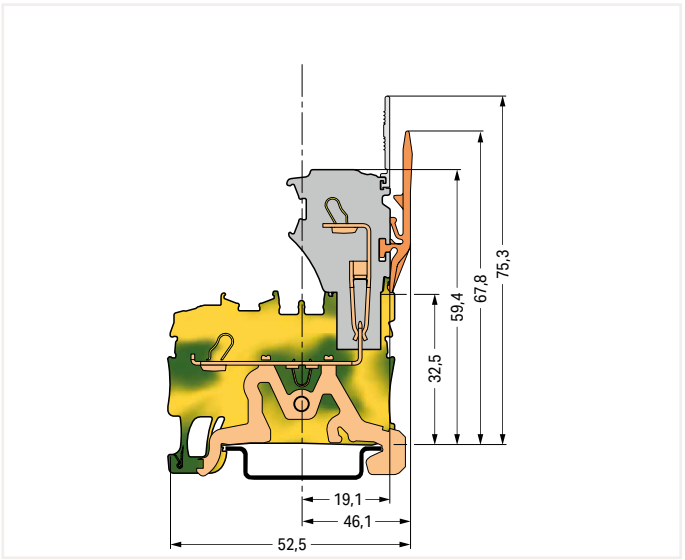
1-conductor female plug
Carrier terminal blocks can be commoned via 2000 Series Push-In Type Jumper Bars and tested via 859-500 Test Pin.



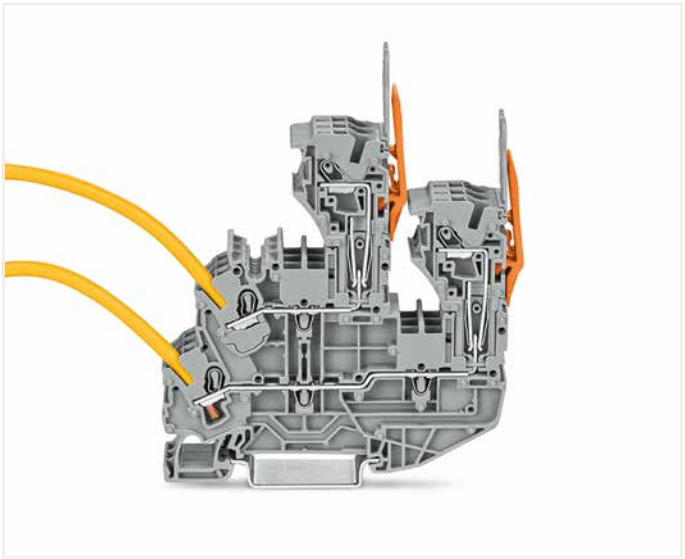
Carrier terminal block



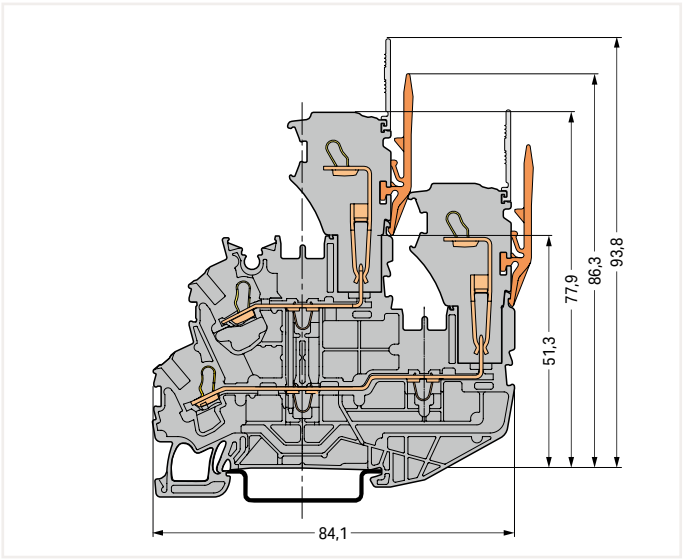
X-COM®S-SYSTEM terminal block assembly



Ground carrier terminal block



1-conductor female plug
Double-deck carrier terminal blocks can be commoned via 2000 Series Push-In Type Jumper Bars and tested via 859-500 Test Pin.



Double-deck carrier terminal block

Female Plug for Self-Assembly X-COM®S-SYSTEM
2.5 (4) mm²; 2022 Series

2

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
690 V/6 kV/3 ❷	600 V, 20 A
I_N 24 A (32 A) ❸	600 V, 20 A
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	

❶ Conductor range: 0.25 … 4 mm² "s+f-st";
Push-in termination: 1 … 4 mm² "s" and 1 … 2.5 mm² "insulated ferrules, 12 mm"
Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 690 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

❸ Current-carrying capacity curves upon request

Note:
According to EN 61984, pluggable connectors without a current interrupting capacity must not be mated or unmated when live or under load.

Approvals and corresponding ratings, visit www.wago.com

1-conductor end module; codable

Color	Item No.	Pack. Unit
gray	2022-181	250
blue	2022-184	250
orange	2022-182	250
green-yellow	2022-187	250

1-conductor center module; codable

gray	2022-171	250
blue	2022-174	250
orange	2022-172	250
green-yellow	2022-177	250

1-conductor base module; with integrated end plate; codable

gray	2022-161	250
blue	2022-164	250
orange	2022-162	250
green-yellow	2022-167	250

Accessories; for female plugs

Appropriate marking systems:
WMB/WMB Inline/Marking strips

Insulation stop; 5 pcs/strip; 0.25 … 0.5 mm²

light gray	2002-171	200 (25)

Insulation stop; 5 pcs/strip; 0.75 … 1 mm²

dark gray	2002-172	200 (25)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks

yellow	2002-115	100 (25)

Locking lever; 4.8 mm wide

orange	2002-142	100 (25)
gray	2002-141	100 (25)

Locking lever; 9.6 mm wide

orange	2002-152	100 (25)
gray	2002-151	100 (25)

Carrier with 6 coding pins; for coding female plugs

orange	2002-100	100 (25)

Accessories; for female plugs

Appropriate marking systems:
WMB/WMB Inline/Marking strips

Strain relief plate; gray

35 mm wide	734-326	100 (25)
6 mm wide	734-327	100 (25)
12.5 mm wide	734-328	100 (25)
25 mm wide	734-329	100 (25)
55 mm wide	734-430	50 (25)
75 mm wide	734-431	50 (25)

WMB Inline, plain; 1,500 WMB markers (5 mm)/reel; 5 … 5.2 mm stretchable

white	2009-115	1

Marking strip; plain; 11 mm wide; 50 m reel

white	2009-110	1

WMB marking card; white; 10 strips with 10 markers/card; 5 … 5.2 mm stretchable

plain	793-5501	5

WMB marking card; plain; 10 strips with 10 markers/card; 5 … 5.2 mm stretchable

yellow	793-5501/000-002	5
red	793-5501/000-005	5
blue	793-5501/000-006	5
gray	793-5501/000-007	5
orange	793-5501/000-012	5
light green	793-5501/000-017	5
green	793-5501/000-023	5
violet	793-5501/000-024	5

Customizing Modular Female Plugs

WAGO's modular X-COM®S-SYSTEM female plugs can be customized for applications requiring varying numbers of poles (e.g., when designing prototypes).

Modules and Pole Numbers

A customized X-COM®S-SYSTEM female plug consists of:
- One base module with an integrated end plate
- Up to 13 center modules (corresponding to a 15-pole female plug = maximum pole number)
- One end module

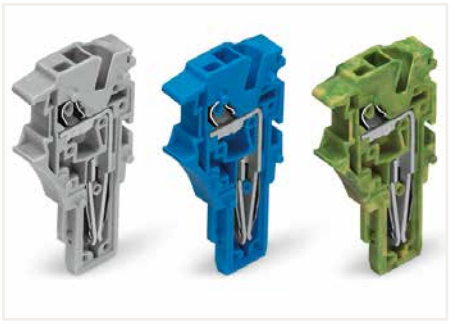
Intended Use

According to EN 61984, pluggable connectors without a current interrupting capacity must not be mated or unmated when live or under load.

Mounting

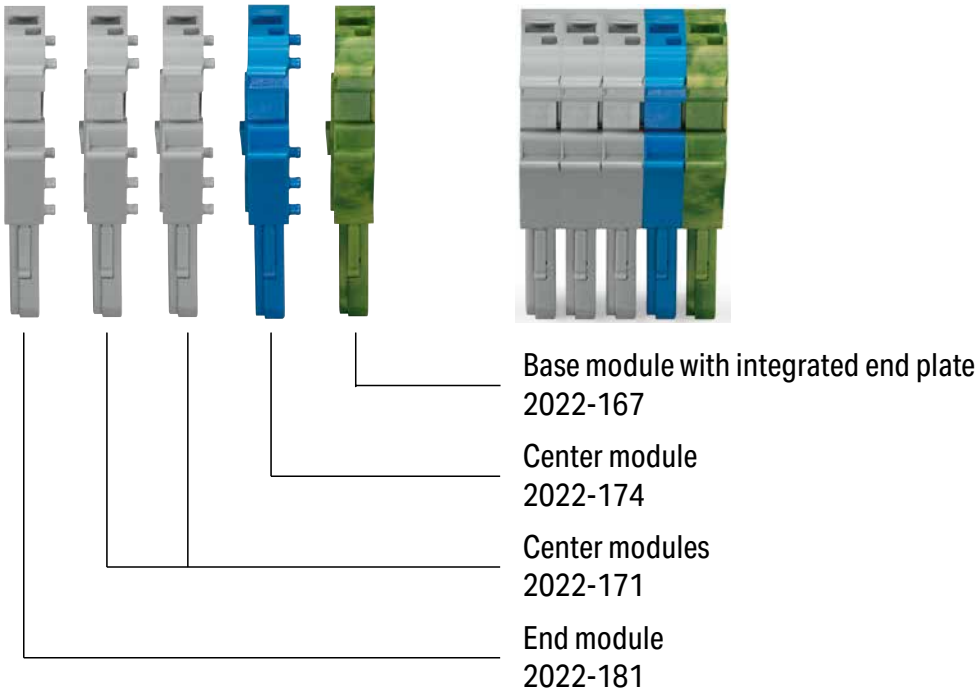
The appropriate mounting tool shall be used in order to guarantee that the individual modules are properly attached to each other without damaging the locking latches.

End module


Center module

Base module

Example: 5-Pole, 1-Conductor Female Plug



Pre-Assembled 1-Conductor Female Plug X-COM®S-SYSTEM
2.5 (4) mm²; 2022 Series

2

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
690 V/6 kV/3 ❷	600 V, 20 A
I_N 24 A (32 A) ❸	600 V, 20 A
Module width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	

1-conductor female plug; with ground base module (green-yellow); fits into carrier terminal blocks; codable

Pole No.	Item No.	Pack. Unit
3	2022-103/000-036	100
4	2022-104/000-036	100
5	2022-105/000-036	50
6	2022-106/000-036	50
7	2022-107/000-036	50
8	2022-108/000-036	50
9	2022-109/000-036	50
10	2022-110/000-036	25
11	2022-111/000-036	25
12	2022-112/000-036	25
13	2022-113/000-036	25
14	2022-114/000-036	25
15	2022-115/000-036	25

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
690 V/6 kV/3 ❷	600 V, 20 A
I_N 24 A (32 A) ❸	600 V, 20 A
Module width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	

1-conductor female plug; with ground end module (green-yellow); fits into carrier terminal blocks; codable

Pole No.	Item No.	Pack. Unit
3	2022-103/000-037	100
4	2022-104/000-037	100
5	2022-105/000-037	50
6	2022-106/000-037	50
7	2022-107/000-037	50
8	2022-108/000-037	50
9	2022-109/000-037	50
10	2022-110/000-037	25
11	2022-111/000-037	25
12	2022-112/000-037	25
13	2022-113/000-037	25
14	2022-114/000-037	25
15	2022-115/000-037	25

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
690 V/6 kV/3 ❷	600 V, 20 A
I_N 24 A (32 A) ❸	600 V, 20 A
Module width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	

1-conductor female plug; with ground base module (green-yellow); fits into carrier terminal blocks; codable

Pole No.	Item No.	Pack. Unit
3	2022-103/000-038	100
4	2022-104/000-038	100
5	2022-105/000-038	50
6	2022-106/000-038	50
7	2022-107/000-038	50
8	2022-108/000-038	50
9	2022-109/000-038	50
10	2022-110/000-038	25
11	2022-111/000-038	25
12	2022-112/000-038	25
13	2022-113/000-038	25
14	2022-114/000-038	25
15	2022-115/000-038	25

Accessories; for female plugs

Appropriate marking systems: WMB/WMB Inline/Marking strips

Insulation stop; 5 pcs/strip; 0.25 … 0.5 mm²

light gray	2002-171	200 (25)

Insulation stop; 5 pcs/strip; 0.75 … 1 mm²

dark gray	2002-172	200 (25)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks

yellow	2002-115	100 (25)

Locking lever; 4.8 mm wide

orange	2002-142	100 (25)
gray	2002-141	100 (25)

Locking lever; 9.6 mm wide

orange	2002-152	100 (25)
gray	2002-151	100 (25)

Carrier with 6 coding pins; for coding female plugs

orange	2002-100	100 (25)

Strain relief plate; gray

35 mm wide	734-326	100 (25)
6 mm wide	734-327	100 (25)
12.5 mm wide	734-328	100 (25)
25 mm wide	734-329	100 (25)
55 mm wide	734-430	50 (25)
75 mm wide	734-431	50 (25)

WMB Inline, plain; 1,500 WMB markers (5 mm)/reel; 5 … 5.2 mm stretchable

white	2009-115	1

Marking strip; plain; 11 mm wide; 50 m reel

white	2009-110	1

WMB marking card; white; 10 strips with 10 markers/card; 5 … 5.2 mm stretchable

plain	793-5501	5

WMB marking card; plain; 10 strips with 10 markers/card; 5 … 5.2 mm stretchable

yellow	793-5501/000-002	5
red	793-5501/000-005	5
blue	793-5501/000-006	5
gray	793-5501/000-007	5
orange	793-5501/000-012	5
light green	793-5501/000-017	5
green	793-5501/000-023	5
violet	793-5501/000-024	5

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
690 V/6 kV/3 ❷	600 V, 20 A
I_N 24 A (32 A) ❸	600 V, 20 A
Module width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	

❶ Conductor range: 0.25 … 4 mm² “s+f-st”;
Push-in termination: 1 … 4 mm² “s” and 1 … 2.5 mm² “insulated ferrules, 12 mm”
Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 690 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

❸ Current-carrying capacity curves upon request

Note:
According to EN 61984, pluggable connectors without a current interrupting capacity must not be mated or unmated when live or under load.

Approvals and corresponding ratings,
visit www.wago.com

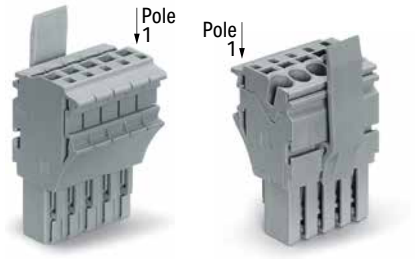
1-conductor female plug; with ground end module (green-yellow); fits into carrier terminal blocks; codable

Pole No.	Item No.	Pack. Unit
3	2022-103/000-039	100
4	2022-104/000-039	100
5	2022-105/000-039	50
6	2022-106/000-039	50
7	2022-107/000-039	50
8	2022-108/000-039	50
9	2022-109/000-039	50
10	2022-110/000-039	25
11	2022-111/000-039	25
12	2022-112/000-039	25
13	2022-113/000-039	25
14	2022-114/000-039	25
15	2022-115/000-039	25

1-Conductor Female Plug X-COM®S-SYSTEM; with Lateral Locking Lever and Strain Relief Plate
2.5 (4) mm²; 2022 Series

2

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
690 V/6 kV/3 ❷	600 V, 20 A
I_N 24 A (32 A) ❸	600 V, 20 A
Module width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



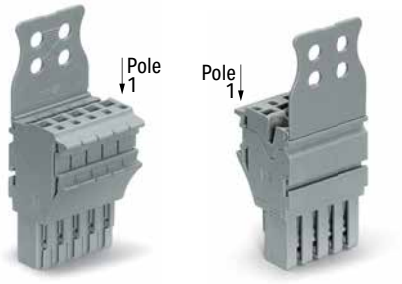
1-conductor female plug; with locking lever; fits into carrier terminal blocks; codable; gray

Pole No.	Item No.	Pack. Unit
1	2022-101/122-000	200
2	2022-102/122-000	100
3	2022-103/123-000	100
4	2022-104/123-000	50
5	2022-105/123-000	50
6	2022-106/123-000	50
7	2022-107/123-000	25
8	2022-108/123-000	25
9	2022-109/123-000	25
10	2022-110/123-000	25
11	2022-111/126-000	25
12	2022-112/126-000	20
13	2022-113/126-000	20
14	2022-114/126-000	10
15	2022-115/127-000	10

1-conductor female plug; with locking lever; fits into carrier terminal blocks; codable

1 blue	2022-101/122-006	200
1 green-yellow	2022-101/122-016	200

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
690 V/6 kV/3 ❷	600 V, 20 A
I_N 24 A (32 A) ❸	600 V, 20 A
Module width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



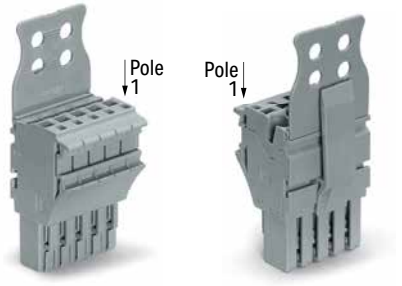
1-conductor female plug; with strain relief plate; fits into carrier terminal blocks; codable; gray

Pole No.	Item No.	Pack. Unit
1	2022-101/132-000	200
2	2022-102/132-000	100
3	2022-103/133-000	100
4	2022-104/133-000	50
5	2022-105/134-000	50
6	2022-106/134-000	50
7	2022-107/135-000	25
8	2022-108/135-000	25
9	2022-109/135-000	25
10	2022-110/135-000	25
11	2022-111/136-000	25
12	2022-112/136-000	20
13	2022-113/136-000	20
14	2022-114/136-000	10
15	2022-115/137-000	10

1-conductor female plug; with strain relief plate; fits into carrier terminal blocks; codable

1 blue	2022-101/132-006	200
1 green-yellow	2022-101/132-016	200

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
690 V/6 kV/3 ❷	600 V, 20 A
I_N 24 A (32 A) ❸	600 V, 20 A
Module width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



1-conductor female plug; with strain relief plate and locking lever; fits into carrier terminal blocks; codable; gray

Pole No.	Item No.	Pack. Unit
1	2022-101/142-000	200
2	2022-102/142-000	100
3	2022-103/143-000	100
4	2022-104/143-000	50
5	2022-105/144-000	50
6	2022-106/144-000	50
7	2022-107/145-000	25
8	2022-108/145-000	25
9	2022-109/145-000	25
10	2022-110/145-000	25
11	2022-111/146-000	25
12	2022-112/146-000	20
13	2022-113/146-000	20
14	2022-114/146-000	10
15	2022-115/147-000	10

1-conductor female plug; with strain relief plate and locking lever; fits into carrier terminal blocks; codable

1 blue	2022-101/142-006	200
1 green-yellow	2022-101/142-016	200

Accessories; for female plugs

Appropriate marking systems: WMB/WMB Inline/Marking strips

Insulation stop; 5 pcs/strip; 0.25 … 0.5 mm²

light gray	2002-171	200 (25)

Insulation stop; 5 pcs/strip; 0.75 … 1 mm²

dark gray	2002-172	200 (25)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks

yellow	2002-115	100 (25)

Carrier with 6 coding pins; for coding female plugs

orange	2022-100	100 (25)

WMB Inline, plain; 1,500 WMB markers (5 mm)/reel; 5 … 5.2 mm stretchable

white	2009-115	1

Marking strip; plain; 11 mm wide; 50 m reel

white	2009-110	1

WMB marking card; white; 10 strips with 10 markers/card; 5 … 5.2 mm stretchable

plain	793-5501	5

WMB marking card; plain; 10 strips with 10 markers/card; 5 … 5.2 mm stretchable

yellow	793-5501/000-002	5
red	793-5501/000-005	5
blue	793-5501/000-006	5
gray	793-5501/000-007	5
orange	793-5501/000-012	5
light green	793-5501/000-017	5
green	793-5501/000-023	5
violet	793-5501/000-024	5

❶ Conductor range: 0.25 … 4 mm² “s+f-st”;
Push-in termination: 1 … 4 mm² “s” and 1 … 2.5 mm² “insulated ferrules, 12 mm”
Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 690 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

❸ Current-carrying capacity curves upon request

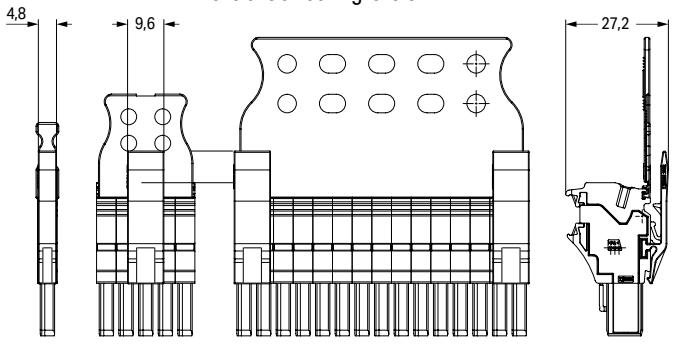
Note:
According to EN 61984, pluggable connectors without a current interrupting capacity must not be mated or unmated when live or under load.

Approvals and corresponding ratings, visit www.wago.com

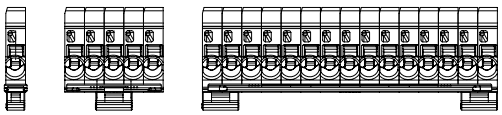
Strain Relief Plate (SRP), Gray			Assembled	Locking Lever (LL), Gray				SRP and LL, Gray Assembled
SRP				Pole No.	Quantity	1-Way	2-Way	
			Item No. Suffix			Item No. Suffix		Item No. Suffix
Item No.	Color	Width						
734-327	gray	6mm	/132-0xx	1 to 2	1	/122-0xx	–	/142-0xx
734-328	gray	12.5mm	/133-0xx	3 to 4	1	–	/123-0xx	/143-0xx
734-329	gray	25mm	/134-0xx	5 to 6	1	–	/123-0xx	/144-0xx
734-326	gray	35mm	/135-0xx	7 to 10	1	–	/123-0xx	/145-0xx
734-430	gray	55mm	/136-0xx	11 to 14	2	–	/126-0xx	/146-0xx
734-431	gray	75mm	/137-0xx	15	2	–	/127-0xx	/147-0xx

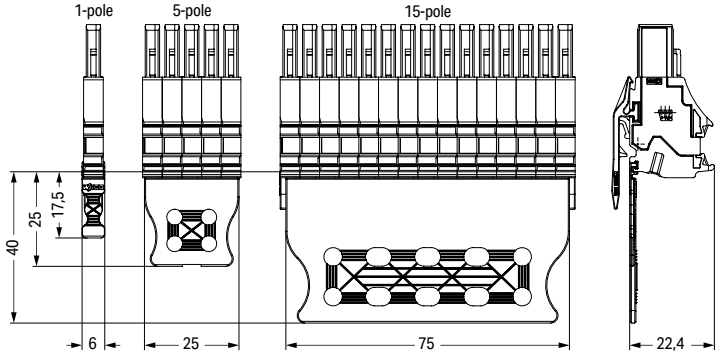
For colored female plugs, the item number suffix “xx” must be replaced by the blue “-006” and the green-yellow “-016” color suffix.

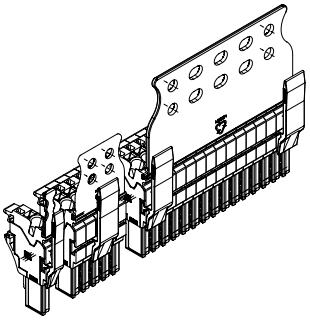
Dimensions of locking levers



Description	Color	Item No.	Suffix No.
1-conductor female plug 1- to 15-pole	gray blue green-yellow	2022-101 to 2022-115	none /000-006 /000-016





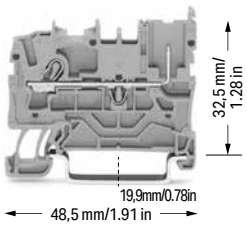


Dimensions of strain relief plates

1-Conductor/1-Pin, 2-Conductor/1-Pin and 2-Conductor/2-Pin Carrier Terminal Block X-COM®S-SYSTEM; for Ex nA Applications

2.5 (4) mm²; 2022 Series

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
630 V ❷	600 V, 20 A
I_N 20 A	600 V, 20 A
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



1-conductor/1-pin carrier terminal block; suitable for Ex nA applications

Color	Item No.	Pack. Unit
gray	2022-1201/999-953	100
blue	2022-1204/999-953	100

1-conductor/1-pin ground carrier terminal block; suitable for Ex nA applications

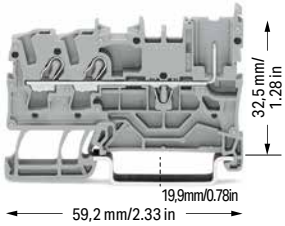
green-yellow	2022-1207/999-953	100

Accessories; item-specific

End and intermediate plate; 1 mm thick

orange	2022-1292	100 (25)
gray	2022-1291	100 (25)

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
630 V ❷	600 V, 20 A
I_N 20 A	600 V, 20 A
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



2-conductor/1-pin carrier terminal block; suitable for Ex nA applications

Color	Item No.	Pack. Unit
gray	2022-1301/999-953	100
blue	2022-1304/999-953	100

2-conductor/1-pin ground carrier terminal block; suitable for Ex nA applications

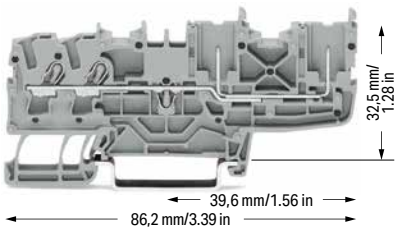
green-yellow	2022-1307/999-953	100

Accessories; item-specific

End and intermediate plate; 1 mm thick

orange	2022-1392	100 (25)
gray	2022-1391	100 (25)

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
630 V ❷	600 V, 20 A
I_N 20 A	600 V, 20 A
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



2-conductor/2-pin carrier terminal block; suitable for Ex nA applications

Color	Item No.	Pack. Unit
gray	2022-1401/999-953	50
blue	2022-1404/999-953	50

2-conductor/2-pin ground carrier terminal block; suitable for Ex nA applications

green-yellow	2022-1407/999-953	50

Accessories; item-specific

End and intermediate plate; 1 mm thick

orange	2022-1492	100 (25)
gray	2022-1491	100 (25)

Accessories; 2022 Series

Appropriate marking systems: WMB/WMB Inline/Marking strips

Insulation stop; 5 pcs/strip; 0.25 … 0.5 mm²

light gray	2002-171	200 (25)

Insulation stop; 5 pcs/strip; 0.75 … 1 mm²

dark gray	2002-172	200 (25)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks

yellow	2002-115	100 (25)

Push-in type jumper bar; insulated; I_N 25 A; light gray

2-way	2002-402	25
3-way	2002-403	25
4-way	2002-404	25
5-way	2002-405	25
6-way	2002-406	25
7-way	2002-407	25
8-way	2002-408	25
9-way	2002-409	25
10-way	2002-410	25

Push-in type jumper bar; insulated; I_N 25 A; light gray

1 to 3	2002-433	25
1 to 4	2002-434	25
1 to 5	2002-435	25
1 to 6	2002-436	25
1 to 7	2002-437	25
1 to 8	2002-438	25
1 to 9	2002-439	25
1 to 10	2002-440	25

Staggered jumper; insulated; I_N 25 A; light gray

2-way	2002-472	25
3-way	2002-473	25
4-way	2002-474	25
5-way	2002-475	25
6-way	2002-476	25
7-way	2002-477	25
8-way	2002-478	25
9-way	2002-479	25
10-way	2002-480	25
11-way	2002-481	25
12-way	2002-482	25

Push-in type wire jumper; insulated; 1.5 mm² conductor cross-section; I_N 18 A

L = 60 mm	2009-412	100 (10)
L = 110 mm	2009-414	100 (10)
L = 250 mm	2009-416	100 (10)

Carrier with 6 coding pins; for coding female plugs

orange	2022-100	100 (25)

Test pin; 1 mm Ø

	859-500	1

1-conductor female plug; with shorter locking lever; suitable for Ex nA applications; fits into carrier terminal blocks; codable

gray	2022-103/999-953	100

WMB Inline, plain; 1,500 WMB markers (5 mm)/reel; 5 … 5.2 mm stretchable

white	2009-115	1

Marking strip; plain; 11 mm wide; 50 m reel

white	2009-110	1

WMB marking card; white; 10 strips with 10 markers/card; 5 … 5.2 mm stretchable

plain	793-5501	5

WMB marking card; plain; 10 strips with 10 markers/card; 5 … 5.2 mm stretchable

yellow	793-5501/000-002	5
red	793-5501/000-005	5
blue	793-5501/000-006	5
gray	793-5501/000-007	5
orange	793-5501/000-012	5
light green	793-5501/000-017	5
green	793-5501/000-023	5
violet	793-5501/000-024	5

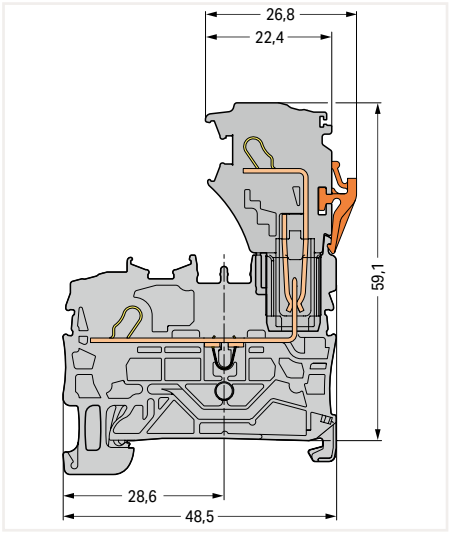
❶ Conductor range: 0.25 … 4 mm² “s+f-st”;
Push-in termination: 1 … 4 mm² “s” and 1 … 2.5 mm² “insulated ferrules, 12 mm”
Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 630 V = rated voltage for use in Zone 2 hazardous areas, “nA” type of protection
(see Section 14)

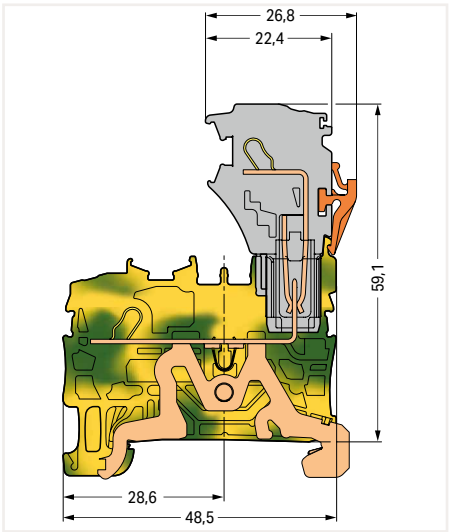
Note:
When used as intended, female plugs must not be connected/disconnected when live or under load.

Please observe the application notes:
Jumpers, from page 152
Marking, from page 588

Approvals and corresponding ratings, visit www.wago.com



Carrier terminal block



Ground carrier terminal block

630 V = rated voltage for use in Zone 2 hazardous areas, “nA” type of protection

“n” refers to an ignition protection class in Zone 2:
This zone covers areas in which a dangerous, explosive atmosphere consisting of gases, vapors or dust is unlikely to exist and will only persist for a short period if it does.

“A” means: non-sparking (function modules without relays/ switches)

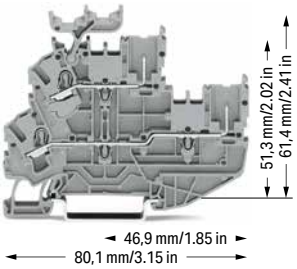
Ex marking:
“Ex” sign and extended item number “…/999-953” are printed on the side of both carrier terminal blocks and female plugs with Ex approval.
Shorter locking lever (factory-mounted) makes accidental disconnection more difficult.

1-Conductor/1-Pin Double-Deck Carrier Terminal Block X-COM®S-SYSTEM; for Ex nA Applications

2.5 (4) mm²; 2022 Series

2

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
630 V ❷	600 V; 20 A
I_N 20 A	600 V; 20 A
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	

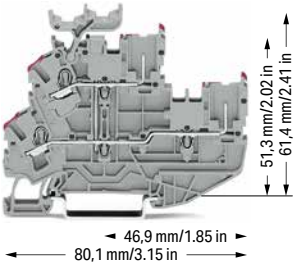


1-conductor/1-pin double-deck carrier terminal block; through/through terminal block; with marker carrier; gray housing; suitable for Ex nA applications

	Item No.	Pack. Unit
L/L	2022-2231/999-953	50
N/L	2022-2232/999-953	50
L/N	2022-2233/999-953	50

1-conductor/1-pin double-deck carrier terminal block; through/through terminal block; without marker carrier; gray housing; for Ex nA applications

	Item No.	Pack. Unit
L/L	2022-2201/999-953	50
N/L	2022-2202/999-953	50
L/N	2022-2203/999-953	50



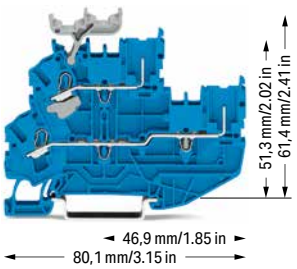
2-conductor/2-pin double-deck carrier terminal block; 2-conductor/2-pin through terminal block; with marker carrier, internally commoned; violet conductor entry; gray housing; for Ex nA applications

	Item No.	Pack. Unit
L	2022-2238/999-953	50

2-conductor/2-pin double-deck carrier terminal block; 2-conductor/2-pin through terminal block; without marker carrier, internally commoned; violet conductor entry; gray housing; for Ex nA applications

	Item No.	Pack. Unit
L	2022-2208/999-953	50

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
630 V ❷	600 V; 20 A
I_N 20 A	600 V; 20 A
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	

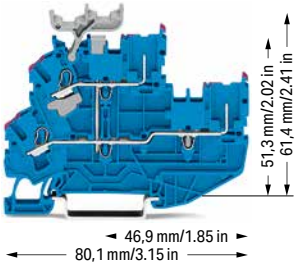


1-conductor/1-pin double-deck carrier terminal block; through/through terminal block; with marker carrier; blue housing; suitable for Ex nA applications

	Item No.	Pack. Unit
N/N	2022-2234/999-953	50

1-conductor/1-pin double-deck carrier terminal block; through/through terminal block; without marker carrier; blue housing; for Ex nA applications

	Item No.	Pack. Unit
N/N	2022-2204/999-953	50



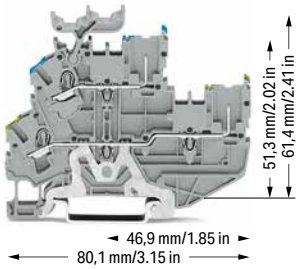
2-conductor/2-pin double-deck carrier terminal block; 2-conductor/2-pin through terminal block; with marker carrier, internally commoned; violet conductor entry; blue housing; for Ex nA applications

	Item No.	Pack. Unit
N	2022-2239/999-953	50

2-conductor/2-pin double-deck carrier terminal block; 2-conductor/2-pin through terminal block; without marker carrier, internally commoned; violet conductor entry; blue housing; for Ex nA applications

	Item No.	Pack. Unit
N	2022-2209/999-953	50

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	

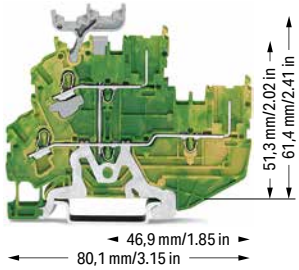


1-conductor/1-pin double-deck carrier terminal block; ground conductor/through terminal block; with marker carrier; gray housing; for Ex nA applications

	Item No.	Pack. Unit
PE/N	2022-2247/999-953	50
PE/L	2022-2257/999-953	50

1-conductor/1-pin double-deck carrier terminal block; ground conductor/through terminal block; without marker carrier; gray housing; for Ex nA applications

	Item No.	Pack. Unit
PE/N	2022-2217/999-953	50
PE/L	2022-2227/999-953	50



2-conductor/2-pin double-deck carrier block; 2-conductor/2-pin ground conductor block; with marker carrier; internally commoned; green-yellow housing; for Ex nA applications

	Item No.	Pack. Unit
PE	2022-2237/999-953	50

2-conductor/2-pin double-deck carrier block; 2-conductor/2-pin ground conductor block; without marker carrier; internally commoned; green-yellow housing; for Ex nA applications

	Item No.	Pack. Unit
PE	2022-2207/999-953	50

❶ Conductor range: 0.25 … 4 mm² “s+f-st”;
Push-in termination: 1 … 4 mm² “s” and 1 … 2.5 mm² “insulated ferrules, 12 mm”
Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 630 V = rated voltage for use in Zone 2 hazardous areas, “nA” type of protection
(see Section 14)
with double-deck vertical jumper,

Note:
When used as intended, female plugs must not be connected/disconnected when live or under load.

Please observe the application notes:
Jumpers, from page 152
Marking, from page 588

Approvals and corresponding ratings, visit www.wago.com

Accessories; 2022 Series

Appropriate marking systems:
WMB/WMB Inline/Marking strips

End and intermediate plate; 1 mm thick

orange	2022-2292	100 (25)
gray	2022-2291	100 (25)

Insulation stop; 5 pcs/strip; 0.25 … 0.5 mm²

light gray	2002-171	200 (25)

Insulation stop; 5 pcs/strip; 0.75 … 1 mm²

dark gray	2002-172	200 (25)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks

yellow	2002-115	100 (25)

Push-in type jumper bar; insulated; I_N 25 A; light gray

2-way	2002-402	25
3-way	2002-403	25
4-way	2002-404	25
5-way	2002-405	25
6-way	2002-406	25
7-way	2002-407	25
8-way	2002-408	25
9-way	2002-409	25
10-way	2002-410	25

Push-in type jumper bar; insulated; I_N 25 A; light gray

1 to 3	2002-433	25
1 to 4	2002-434	25
1 to 5	2002-435	25
1 to 6	2002-436	25
1 to 7	2002-437	25
1 to 8	2002-438	25
1 to 9	2002-439	25
1 to 10	2002-440	25

Double-deck vertical jumper; insulated; I_N 24 A

light gray	2002-492	100 (25)
orange	2002-492/000-012	100 (25)

Accessories; 2022 Series

Appropriate marking systems:
WMB/WMB Inline/Marking strips

Adjacent jumper for continuous commoning; insulated; I_N 25 A, light gray

2-way	2002-400	25

Adjacent jumper for continuous commoning; insulated; I_N 25 A; 1 to 3

light gray	2002-423	25
red	2002-423/000-005	25
blue	2002-423/000-006	25

Adjacent jumper for continuous commoning; insulated; I_N 25 A, light gray

5-way	2002-415	25

Carrier with 6 coding pins; for coding female plugs

orange	2022-100	100 (25)

Test pin; 1 mm Ø

	859-500	1

1-conductor female plug; with shorter locking lever; suitable for Ex nA applications; fits into carrier terminal blocks; codable

gray	2022-103/999-953	100

WMB Inline, plain; 1,500 WMB markers (5 mm)/reel; 5 … 5.2 mm stretchable

white	2009-115	1

Marking strip; plain; 11 mm wide; 50 m reel

white	2009-110	1

WMB marking card; white; 10 strips with 10 markers/card; 5 … 5.2 mm stretchable

plain	793-5501	5

WMB marking card; plain; 10 strips with 10 markers/card; 5 … 5.2 mm stretchable

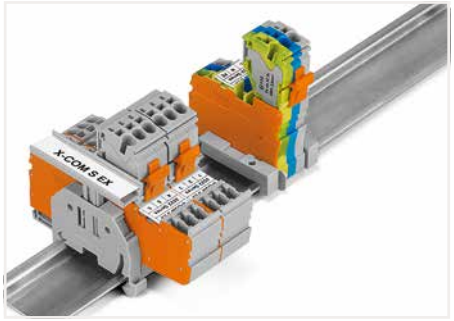
yellow	793-5501/000-002	5
red	793-5501/000-005	5
blue	793-5501/000-006	5
gray	793-5501/000-007	5
orange	793-5501/000-012	5
light green	793-5501/000-017	5
green	793-5501/000-023	5
violet	793-5501/000-024	5

Double-deck marker carrier; pivoting

gray	2002-121	50 (25)

Screwless end stop; for DIN-35 rail; 6 mm wide

gray	249-116	100 (25)



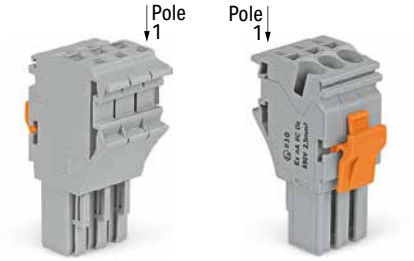
Group marking with height-adjustable group marker carrier (2009-163)

2

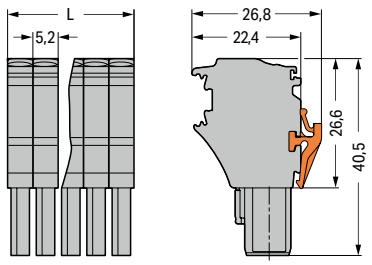
1-Conductor Female Plug X-COM®S-SYSTEM; for Ex nA Applications
2.5 (4) mm²; 2022 Series

2

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
630 V ❷	600 V, 20 A
I_N 20 A	600 V, 20 A
Module width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



Dimensions (in mm):



L = pole no. x module width

1-conductor female plug; with shorter locking lever; suitable for Ex nA applications; fits into carrier terminal blocks; codable; gray
According to EN 61984, pluggable connectors without a current interrupting capacity must not be mated or unmated when live or under load.

Pole No.	Item No.	Pack. Unit
2	2022-102/999-953	200
3	2022-103/999-953	100
4	2022-104/999-953	100
5	2022-105/999-953	50
6	2022-106/999-953	50
7	2022-107/999-953	50
8	2022-108/999-953	50

❶ Conductor range: 0.25 … 4 mm² “s+f-st”; Push-in termination: 1 … 4 mm² “s” and 1 … 2.5 mm² “insulated ferrules, 12 mm”
Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 630 V = rated voltage for use in Zone 2 hazardous areas, “nA” type of protection (see Section 14)

Approvals and corresponding ratings, visit www.wago.com

Accessories; for female plugs

Appropriate marking systems: WMB/WMB Inline/Marking strips

Insulation stop; 5 pcs/strip; 0.25 … 0.5 mm²

light gray	2002-171	200 (25)

Insulation stop; 5 pcs/strip; 0.75 … 1 mm²

dark gray	2002-172	200 (25)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks

yellow	2002-115	100 (25)

Carrier with 6 coding pins; for coding female plugs

orange	2022-100	100 (25)

Strain relief plate; gray

35 mm wide	734-326	100 (25)
6 mm wide	734-327	100 (25)
12.5 mm wide	734-328	100 (25)
25 mm wide	734-329	100 (25)
55 mm wide	734-430	50 (25)
75 mm wide	734-431	50 (25)

WMB Inline, plain; 1,500 WMB markers (5 mm)/reel; 5 … 5.2 mm stretchable

white	2009-115	1

Marking strip; plain; 11 mm wide; 50 m reel

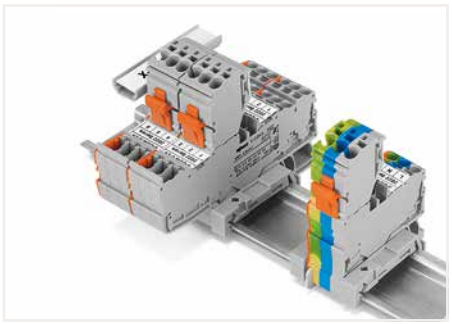
white	2009-110	1

WMB marking card; white; 10 strips with 10 markers/card; 5 … 5.2 mm stretchable

plain	793-5501	5

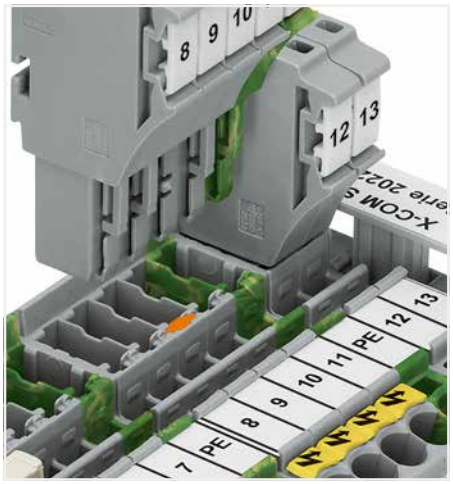
WMB marking card; plain; 10 strips with 10 markers/card; 5 … 5.2 mm stretchable

yellow	793-5501/000-002	5
red	793-5501/000-005	5
blue	793-5501/000-006	5
gray	793-5501/000-007	5
orange	793-5501/000-012	5
light green	793-5501/000-017	5
green	793-5501/000-023	5
violet	793-5501/000-024	5



Each female plug is supplied with a locking lever.

Coding a female plug: remove coding finger using a suitable tool.

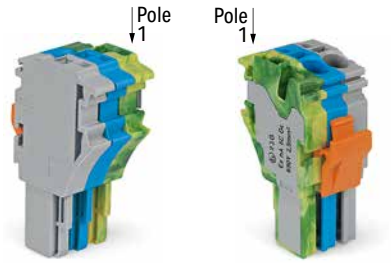


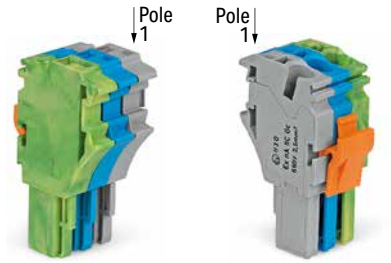
Insert a coding pin (2022-100) into the corresponding location of the carrier terminal block.

Pre-Assembled 1-Conductor Female Plug X-COM®S-SYSTEM; for Ex nA Applications
2.5 (4) mm²; 2022 Series

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
630 V ❷	600 V, 20 A
I_N 20 A	600 V, 20 A
Module width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
630 V ❷	600 V, 20 A
I_N 20 A	600 V, 20 A
Module width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	





❶ Conductor range: 0.25 … 4 mm² “s+f-st”; Push-in termination: 1 … 4 mm² “s” and 1 … 2.5 mm² “insulated ferrules, 12 mm” Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 630 V = rated voltage for use in Zone 2 hazardous areas, “nA” type of protection (see Section 14)

Note:
According to EN 61984, pluggable connectors without a current interrupting capacity must not be mated or unmated when live or under load.

Approvals and corresponding ratings, visit www.wago.com

1-conductor female plug; with shorter locking lever; with ground base module (green-yellow); fits into carrier terminal blocks; codable

Pole No.	Item No.	Pack. Unit
3	2022-103/000-038/999-953	100
4	2022-104/000-038/999-953	100
5	2022-105/000-038/999-953	50
6	2022-106/000-038/999-953	50

1-conductor female plug; with shorter locking lever; with ground end module (green-yellow); fits into carrier terminal blocks; codable

Pole No.	Item No.	Pack. Unit
3	2022-103/000-039/999-953	100
4	2022-104/000-039/999-953	100
5	2022-105/000-039/999-953	50
6	2022-106/000-039/999-953	50

Ex marking:
“Ex” sign and extended item number “…/999-953” are printed on the side of both carrier terminal blocks and female plugs with Ex approval.
Shorter locking lever (factory-mounted) makes accidental disconnection more difficult.

Accessories; for female plugs

Appropriate marking systems: WMB/WMB Inline/Marking strips

Insulation stop; 5 pcs/strip; 0.25 … 0.5 mm²

light gray	2002-171	200 (25)

Insulation stop; 5 pcs/strip; 0.75 … 1 mm²

dark gray	2002-172	200 (25)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks

yellow	2002-115	100 (25)

Carrier with 6 coding pins; for coding female plugs

orange	2002-100	100 (25)

Strain relief plate; gray

35 mm wide	734-326	100 (25)
6 mm wide	734-327	100 (25)
12.5 mm wide	734-328	100 (25)
25 mm wide	734-329	100 (25)
55 mm wide	734-430	50 (25)
75 mm wide	734-431	50 (25)

WMB Inline, plain; 1,500 WMB markers (5 mm)/reel; 5 … 5.2 mm stretchable

white	2009-115	1

Marking strip; plain; 11 mm wide; 50 m reel

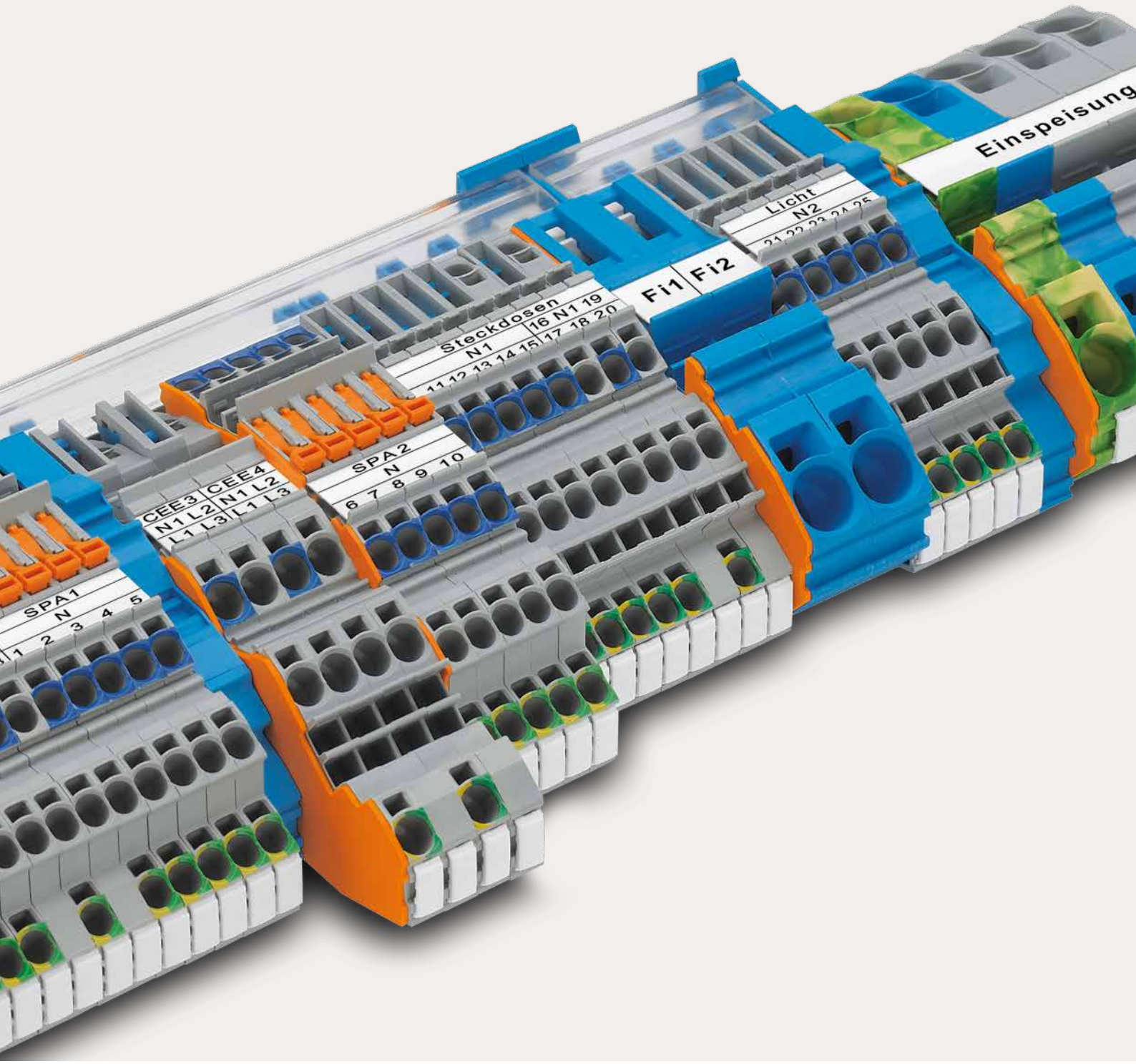
white	2009-110	1

WMB marking card; white; 10 strips with 10 markers/card; 5 … 5.2 mm stretchable

plain	793-5501	5

WMB marking card; plain; 10 strips with 10 markers/card; 5 … 5.2 mm stretchable

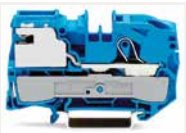
yellow	793-5501/000-002	5
red	793-5501/000-005	5
blue	793-5501/000-006	5
gray	793-5501/000-007	5
orange	793-5501/000-012	5
light green	793-5501/000-017	5
green	793-5501/000-023	5
violet	793-5501/000-024	5



WAGO Installation Rail-Mount Terminal Blocks TOPJOB® S

PUSH-IN CAGE CLAMP®

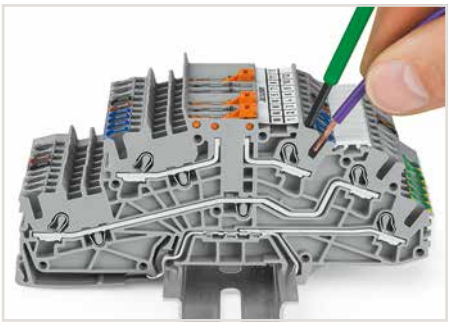
WAGO Installation Rail-Mount Terminal Blocks TOPJOB® S
Front-Entry Wiring

			Page
	Multilevel Installation Terminal Blocks; with N-Disconnect Slide Links 0.25 … 2.5 (4) mm² (22 … 12 AWG)	2003 Series	202
	Multilevel Installation Terminal Blocks; with Internal N-Disconnection 0.25 … 2.5 (4) mm² (22 … 12 AWG)	2003 Series	204
	Double-Fuse Plugs on Carrier Terminal Blocks	2003 Series	208
	Multilevel Installation Terminal Blocks; with N-Disconnect Slide Links 0.5 … 4 (6) mm² (20 … 10 AWG)	2005 Series	210
	**N-Disconnect Terminal Blocks and Power Distribution Disconnect Terminal Blocks** 0.5 … 16 (25 “f-st“) mm² (20 … 4 AWG)	2002/2006/2016 Series	212
	Supply Terminal Blocks for Distribution Boxes 0.5 … 16 (25 “f-st“) mm² (20 … 4 AWG)	2016 Series	214

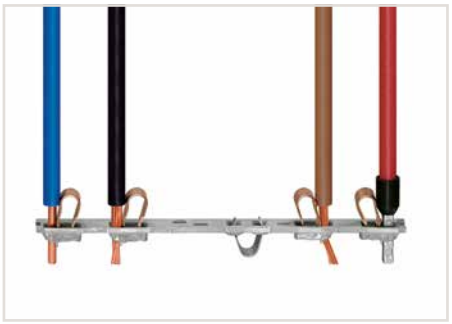
3

Installation Rail-Mount Terminal Blocks TOPJOB® S
Installation

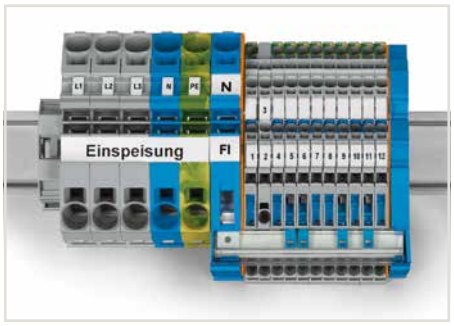
Inserting a conductor via push-in termination.
Solid conductors with cross-sections from either one size above, or up to two sizes below, the rated cross-section can be simply pushed in – no tools needed.



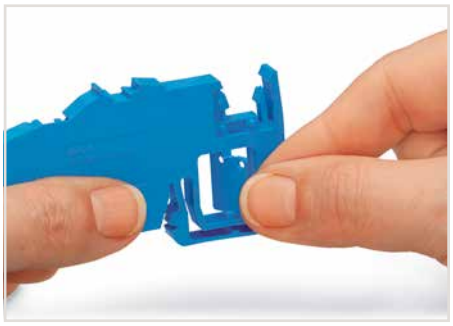
Inserting a conductor via operating tool.
Connecting fine-stranded conductors without ferrules, or small cross-sectional conductors that cannot be pushed in, is performed similarly to the original CAGE CLAMP® – just use an operating tool.



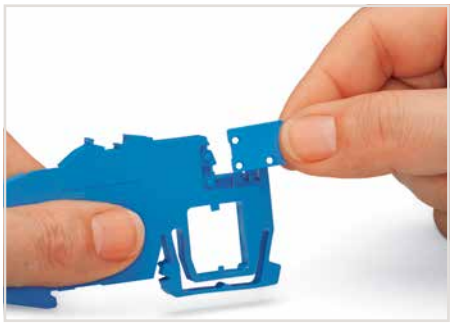
All conductor types at a glance



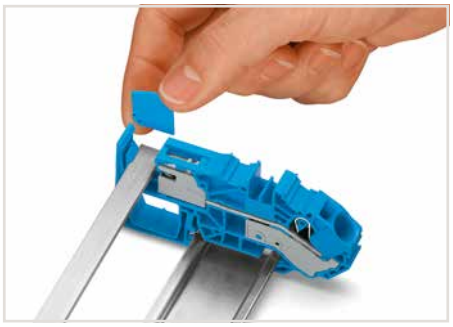
Mounting busbars on busbar carriers: Insert busbar ends onto large busbar carriers (2009-305) or onto supply terminal blocks with an integrated busbar carrier.



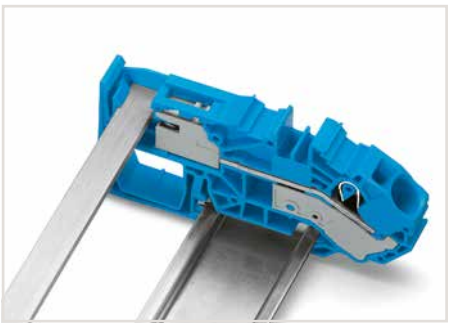
Removing the separator plate from the busbar carrier or from the N-disconnect terminal block.



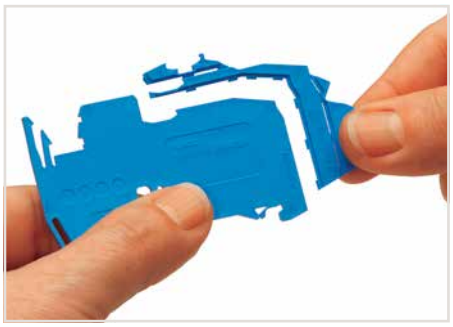
Inserting the separator plate into the busbar carrier to protect the N-busbar against accidental contact.



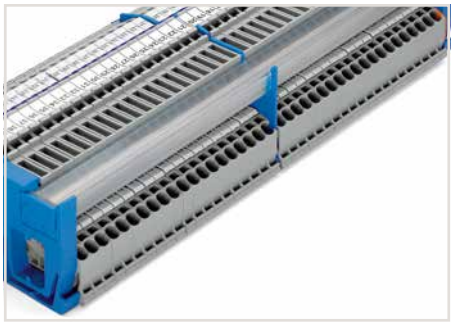
Inserting separator plate removed from N-disconnect terminal block.



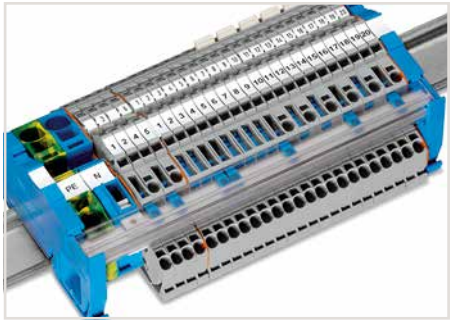
Touch-proof N-busbar via inserted separator plate



Perforations make it possible to fit the carrier to all Installation Rail-Mount Terminal Blocks TOPJOB® S using a single part.



The compact busbar carrier (1.5 mm thick), which is placed every 200 mm, provides additional busbar support for longer assemblies.



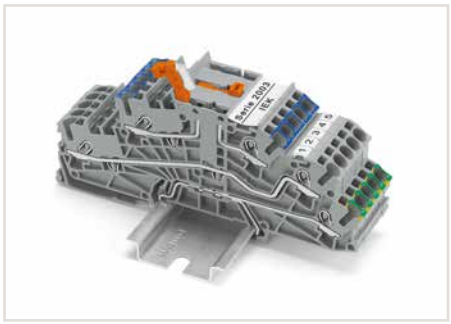
The busbar transparent cover (Item No. 777-303) protects the busbar against accidental contact and makes it easy to see which terminal blocks are connected to the busbar.

Tool-operated N-disconnect slide link

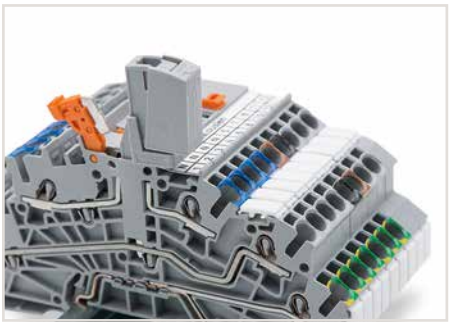
Push-in CAGE CLAMP® terminates the following copper conductors:
solid

stranded

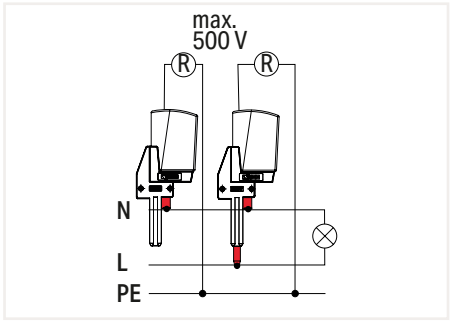
fine-stranded, also with tinned single strands



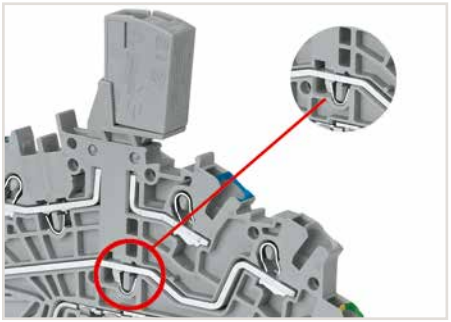
N-potential disconnection via N-knife disconnect within a terminal block assembly without a busbar.



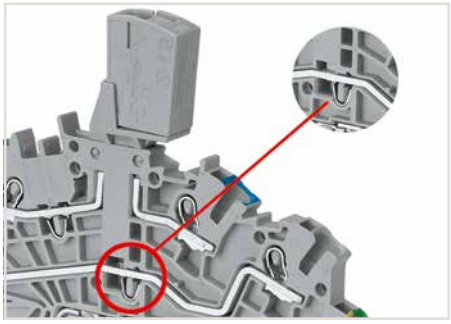
For multilevel installation terminal blocks with internal N-disconnection, test plug adapters can be inserted into the free vertical test slot when the N-potential is disconnected.



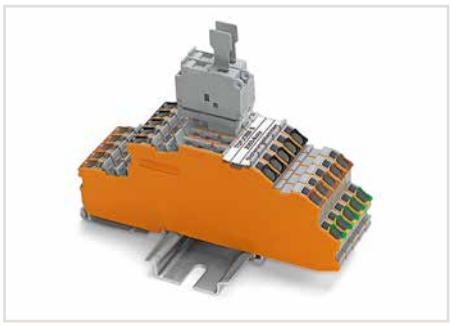
Test plug adapters for both individual N-potential measurement and insulation resistance measurement of the connected N- and L-potentials are available.



Multilevel installation terminal block fitted with an N/L-test plug adapter for quick and safe insulation resistance measurement of the connected N- and L-potentials

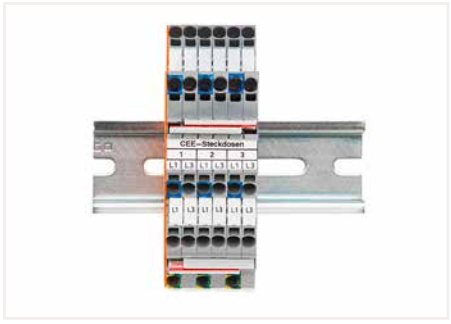


Multilevel installation terminal block fitted with an N-test plug adapter for insulation resistance measurement of the N-potential

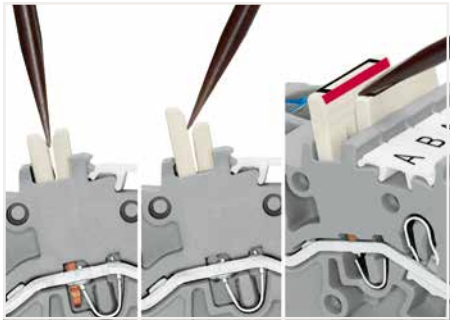


Single-fuse plugs can be used in combination with 1 mm thick end and intermediate plates on carrier terminal blocks without an N-knife disconnect.

Double-fuse plugs with 5 x 25 mm glass cartridge fuses can be used on carrier terminal blocks without an N-knife disconnect in standard terminal block width.



Commoning two potentials in one single jumper slot via extremely slim staggered jumpers.



Insert the operating tool between the staggered jumpers, then lift up the jumper.

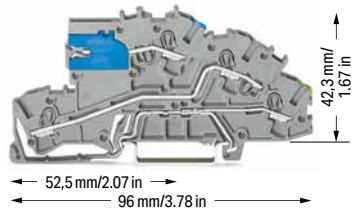
fine-stranded, tip-bonded

fine-stranded, with ferrule (gastight crimped)

fine-stranded, with pin terminal (gastight crimped)

Multilevel Installation Terminal Block TOPJOB® S; with N-Disconnect Slide Link
2.5 (4) mm²; 2003 Series

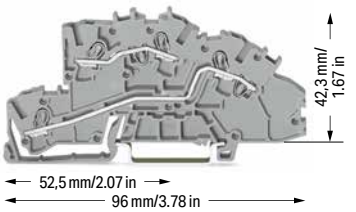
Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
250 V/4 kV/3; 32 A (32 A) ❷	
400 V/6 kV/3; 32 A (32 A) ❷	
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



Multilevel installation terminal block; with N-disconnect slide link; gray

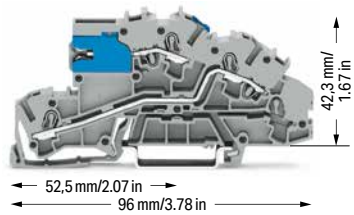
	Item No.	Pack. Unit
○ NT/L/PE	2003-7641	50

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
400 V/6 kV/3 ❷	
I_N 32 A	
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



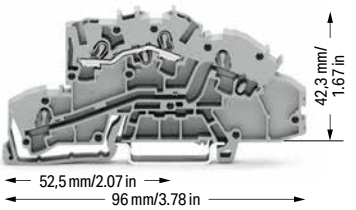
Multilevel installation terminal block; gray

	Item No.	Pack. Unit
○ L/L	2003-7642	50
○ N/L	2003-7649	50



Multilevel installation terminal block; with N-disconnect slide link; gray

	Item No.	Pack. Unit
○ NT/L	2003-7640	50
○ LT/L	2003-7659	50



Multilevel installation terminal block; gray

	Item No.	Pack. Unit
○ L	2003-7650	50
○ N	2003-7651	50

Multilevel installation terminal block; gray

	Item No.	Pack. Unit
○ N/L/PE	2003-7646	50
○ L/L/PE	2003-7645	50

Accessories; 2003 Series

Appropriate marking systems: WMB/WMB Inline/Marking strips

End and intermediate plate; 0.8 mm thick

orange | 2003-7692 | 100 (25)

Busbar carrier; not suitable as an end stop; snaps onto DIN-35 rail; 1.5 mm thick

blue | 2009-304 | 100 (25)

Busbar carrier; with end stop function and detachable separator plate; snaps onto DIN-35 rail; 7.5 mm thick

blue | 2009-305 | 25

Busbar cover; 1000 mm long

transparent | 777-303 | 1

Busbar; tin-plated; 1000 mm long; copper (10 x 3) mm

I_N 140 A | 210-133 | 1

N-supply terminal block; I_N 76 A; 16 mm²; 12 mm wide

blue | 2016-7714 | 20

Ground supply terminal block; 16 mm²; 12 mm wide

green-yellow | 2016-7607 | 20

Connector; for busbar; with blue cover; 2.5 … 16 mm²

blue | 210-281 | 100 (50)

Connector; for busbar; 2.5 … 35 mm²

unplated | 209-105 | 50

❶ Conductor range: 0.25 … 4 mm² "s+f-st"; Push-in termination: 1 … 4 mm² "s" and 1 … 2.5 mm² "insulated ferrules, 12 mm" Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 250 V / 400 V = rated voltage
4 kV / 6 kV = rated impulse voltage
3 = pollution degree
(see Section 14)
250 V/4 kV potential – ground
400 V/6 kV potential – potential

Please observe the application notes:
Jumpers, from page 152
Testing accessories, from page 151
Marking, from page 588

Approvals and corresponding ratings, visit www.wago.com

Accessories; 2003 Series

Appropriate marking systems: WMB/WMB Inline/Marking strips

Lock-out; prevents reclosing of slide link; snap-on type

orange | 2003-7300 | 100 (25)

Insulation stop; 5 pcs/strip; 0.25 … 0.5 mm²

light gray | 2002-171 | 200 (25)

Insulation stop; 5 pcs/strip; 0.75 … 1 mm²

dark gray | 2002-172 | 200 (25)

Push-in type jumper bar; insulated; I_N 25 A; light gray

2-way	2002-402	25
3-way	2002-403	25
4-way	2002-404	25
5-way	2002-405	25
6-way	2002-406	25
7-way	2002-407	25
8-way	2002-408	25
9-way	2002-409	25
10-way	2002-410	25

Push-in type jumper bar; insulated; I_N 25 A; light gray

1 to 3	2002-433	25
1 to 4	2002-434	25
1 to 5	2002-435	25
1 to 6	2002-436	25
1 to 7	2002-437	25
1 to 8	2002-438	25
1 to 9	2002-439	25
1 to 10	2002-440	25

Adjacent jumper for continuous commoning; insulated; I_N 25 A, light gray

2-way | 2002-400 | 25

Adjacent jumper for continuous commoning; insulated; I_N 25 A; 1 to 3

light gray	2002-423	25
red	2002-423/000-005	25
blue	2002-423/000-006	25

Adjacent jumper for continuous commoning; insulated; I_N 25 A, light gray

5-way | 2002-415 | 25

Accessories; 2003 Series

Appropriate marking systems: WMB/WMB Inline/Marking strips

Staggered jumper; insulated; I_N 25 A; light gray

2-way	2002-472	25
3-way	2002-473	25
4-way	2002-474	25
5-way	2002-475	25
6-way	2002-476	25
7-way	2002-477	25
8-way	2002-478	25
9-way	2002-479	25
10-way	2002-480	25
11-way	2002-481	25
12-way	2002-482	25

Customized staggered jumper; insulated; with contact lugs broken off at the factory and circuit printing; I_N 25 A; light gray

1-3	2002-473/011-000	25
1-3-5	2002-475/011-000	25
1-3-5-7	2002-477/011-000	25
1-3-5-7-9	2002-479/011-000	25
1-3-5-7-9-11	2002-481/011-000	25

Push-in type wire jumper; insulated; 1.5 mm² conductor cross-section; I_N 18 A

L = 60 mm	2009-412	100 (10)
L = 110 mm	2009-414	100 (10)
L = 250 mm	2009-416	100 (10)

Test plug adapter; for 4 mm Ø test plug

gray	2009-174	100 (25)

Banana plug; for 4 mm socket diameter; color mixed; 10 x orange, white, black, blue, yellow; max. 42 V

	215-111	50

Testing tap; for max. 2.5 mm²

gray	2009-182	100 (25)

Test plug; with 500 mm cable; 2 mm Ø; max. 42 V

red	210-136	50

Test plug; with 500 mm cable; 2.3 mm Ø; max. 42 V

yellow	210-137	50

Operating tool; 3.5 mm and 2.5 mm blade width; for Installation Terminal Blocks TOPJOB® S

	2009-309	1

Operating tool; 3.5 mm and 5.5 mm blade width; for Installation Terminal Blocks TOPJOB® S

	2009-310	1

WMB Inline, plain; 1,500 WMB markers (5 mm)/reel; 5 … 5.2 mm stretchable

white	2009-115	1

Marking strip; plain; 11 mm wide; 50 m reel

white	2009-110	1

WMB marking card; white; 10 strips with 10 markers/card; 5 … 5.2 mm stretchable

plain	793-5501	5

WMB marking card; plain; 10 strips with 10 markers/card; 5 … 5.2 mm stretchable

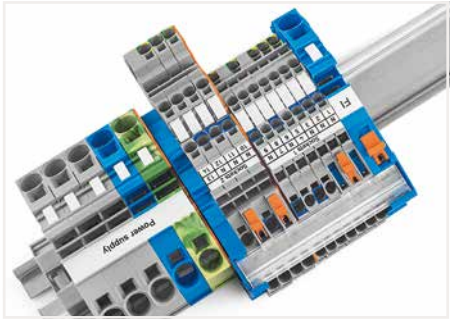
yellow	793-5501/000-002	5
red	793-5501/000-005	5
blue	793-5501/000-006	5
gray	793-5501/000-007	5
orange	793-5501/000-012	5
light green	793-5501/000-017	5
green	793-5501/000-023	5
violet	793-5501/000-024	5

Screwless end stop; for DIN-35 rail; 6 mm wide

gray	249-116	100 (25)

Screwless end stop; for DIN-35 rail; 10 mm wide

gray	249-117	50 (25)



TOPJOB® S – Terminal Blocks for Every Application

- Push-in termination of solid conductors in small distribution boards saves time and money.
- Operating errors can be prevented as all Terminal Blocks for building installations are equipped with push-in connection technology.
- The use of standard accessories reduces order-processing and warehousing costs.
- The busbar position is the same, making Installation Terminal Blocks TOPJOB® S compatible with standard Installation Terminal Blocks TOPJOB®.

For the construction and operation of power installations in fire-prone, hazardous locations or public buildings – such as conference centers, stores, hospitals, schools, theaters or hotels – the DIN VDE 0100-710 or DIN VDE 0100-718 standards shall be observed. DIN VDE 0100-482 shall also be observed for fire-prone, hazardous locations. These VDE regulations mandate that every neutral conductor must be provided with a disconnection device so, e.g., insulation resistance measurement is possible for every circuit without disconnecting the N-conductor.
WAGO's N-disconnect terminal blocks meet this requirement.

Application note:
N-disconnect slide links, used in installation terminal blocks, consist of switch contacts that are opened and then closed again as part of regular circuit testing. To guarantee a reliable connection, a corrosion-resistant contact area is required on the N-busbar.

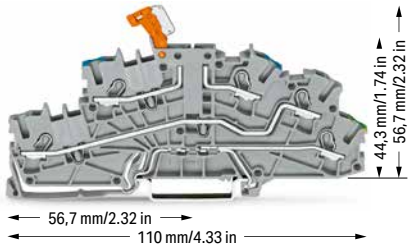
Historically, uninsulated copper busbars that have been cleaned/stripped of any possible corrosion prior to install can be used in dry, pollution-free locations.

According to DIN VDE 0100-520 (VDE 0100, Part 520), installation equipment exposed to contamination or corrosive substances (e.g., water) that promote corrosion or deterioration, must be protected or made of a corrosion- or wear-resistant material. In these cases, tinned copper busbars guarantee a reliable connection.

WAGO only offers tinned copper busbars.

Multilevel Installation Terminal Block TOPJOB® S; with Internal N-Disconnection
2.5 (4) mm²; 2003 Series

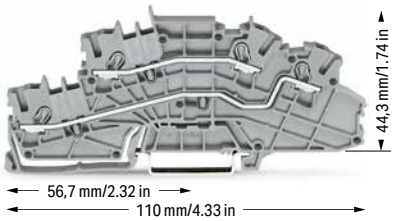
Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
250 V/4 kV/3; 20 A (25 A) ❷	
400 V/6 kV/3; 20 A (25 A) ❷	
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



Multilevel installation terminal block; with pivoting knife disconnect; gray

	Item No.	Pack. Unit
◯ NTi/L/PE	2003-6641	50
◯ LTi/L/PE	2003-6644	50

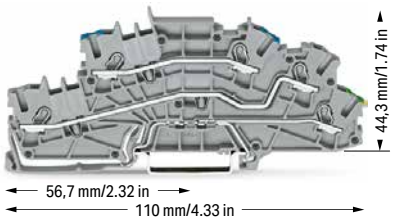
Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
400 V/6 kV/3 ❷	
I_N 24 A (28 A)	
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



Multilevel installation terminal block; gray

	Item No.	Pack. Unit
◯ L/L	2003-6642	50
◯ N/L	2003-6649	50

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
250 V/4 kV/3; 24 A (28 A) ❷	
400 V/6 kV/3; 24 A (28 A) ❷	
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



Multilevel installation terminal block; gray

	Item No.	Pack. Unit
◯ N/L/PE	2003-6646	50
◯ L/L/PE	2003-6645	50

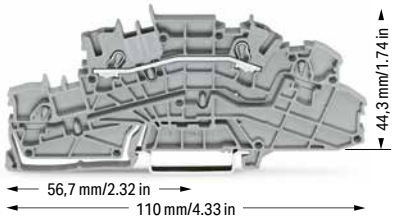
Accessories; item-specific

N/L-test plug adapter; for vertical test slot; gray

2-pole	2003-499	100 (25)

N-test plug adapter; for vertical test slot; gray

1-pole	2003-500	100 (25)



Multilevel installation terminal block; gray

	Item No.	Pack. Unit
◯ L	2003-6650	50
◯ N	2003-6651	50

Accessories; 2003 Series

Appropriate marking systems: WMB/WMB Inline/Marking strips

End and intermediate plate; 0.8 mm thick

orange	2003-6692	100 (25)

Insulation stop; 5 pcs/strip; 0.25 … 0.5 mm²

light gray	2002-171	200 (25)

Insulation stop; 5 pcs/strip; 0.75 … 1 mm²

dark gray	2002-172	200 (25)

Push-in type jumper bar; insulated; I_N 25 A; light gray

2-way	2002-402	25
3-way	2002-403	25
4-way	2002-404	25
5-way	2002-405	25
6-way	2002-406	25
7-way	2002-407	25
8-way	2002-408	25
9-way	2002-409	25
10-way	2002-410	25

Push-in type jumper bar; insulated; I_N 25 A; light gray

1 to 3	2002-433	25
1 to 4	2002-434	25
1 to 5	2002-435	25
1 to 6	2002-436	25
1 to 7	2002-437	25
1 to 8	2002-438	25
1 to 9	2002-439	25
1 to 10	2002-440	25

Push-in type wire jumper; insulated; 1.5 mm² conductor cross-section; I_N 18 A

L = 60 mm	2009-412	100 (10)
L = 110 mm	2009-414	100 (10)
L = 250 mm	2009-416	100 (10)

❶ Conductor range: 0.25 … 4 mm² “s+f-st”;
Push-in termination: 1 … 4 mm² “s” and 1 … 2.5 mm² “insulated ferrules, 12 mm”
Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 250 V / 400 V = rated voltage
4 kV / 6 kV = rated impulse voltage
3 = pollution degree
(see Section 14)
250 V/4 kV potential – ground
400 V/6 kV potential – potential

Please observe the application notes:
Jumpers, from page 152
Testing accessories, from page 151
Marking, from page 588

Approvals and corresponding ratings, visit www.wago.com

Accessories; 2003 Series

Appropriate marking systems:
WMB/WMB Inline/Marking strips

Staggered jumper; insulated; I_N 25 A; light gray

2-way	2002-472	25
3-way	2002-473	25
4-way	2002-474	25
5-way	2002-475	25
6-way	2002-476	25
7-way	2002-477	25
8-way	2002-478	25
9-way	2002-479	25
10-way	2002-480	25
11-way	2002-481	25
12-way	2002-482	25

Customized staggered jumper; insulated; with contact lugs broken off at the factory and circuit printing; I_N 25 A; light gray

1-3	2002-473/011-000	25
1-3-5	2002-475/011-000	25
1-3-5-7	2002-477/011-000	25
1-3-5-7-9	2002-479/011-000	25
1-3-5-7-9-11	2002-481/011-000	25

Adjacent jumper for continuous commoning; insulated; I_N 25 A, light gray

2-way	2002-400	25

Adjacent jumper for continuous commoning; insulated; I_N 25 A; 1 to 3

light gray	2002-423	25
red	2002-423/000-005	25
blue	2002-423/000-006	25

Adjacent jumper for continuous commoning; insulated; I_N 25 A, light gray

5-way	2002-415	25

Test plug adapter; for 4 mm Ø test plug

gray	2009-174	100 (25)

Banana plug; for 4 mm socket diameter; color mixed; 10 x orange, white, black, blue, yellow; max. 42 V

	215-111	50

Testing tap; for max. 2.5 mm²

gray	2009-182	100 (25)

Accessories; 2003 Series

Appropriate marking systems:
WMB/WMB Inline/Marking strips

WMB Inline, plain; 1,500 WMB markers (5 mm)/reel; 5 … 5.2 mm stretchable

white	2009-115	1

Marking strip; plain; 11 mm wide; 50 m reel

white	2009-110	1

WMB marking card; white; 10 strips with 10 markers/card; 5 … 5.2 mm stretchable

plain	793-5501	5

WMB marking card; plain; 10 strips with 10 markers/card; 5 … 5.2 mm stretchable

yellow	793-5501/000-002	5
red	793-5501/000-005	5
blue	793-5501/000-006	5
gray	793-5501/000-007	5
orange	793-5501/000-012	5
light green	793-5501/000-017	5
green	793-5501/000-023	5
violet	793-5501/000-024	5

Screwless end stop; for DIN-35 rail; 6 mm wide

gray	249-116	100 (25)

Screwless end stop; for DIN-35 rail; 10 mm wide

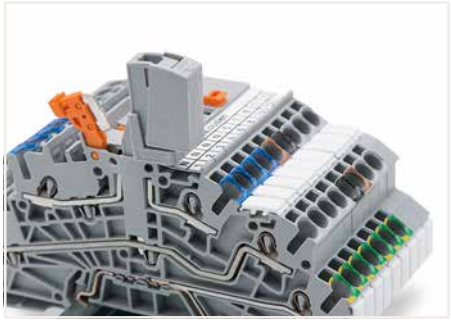
gray	249-117	50 (25)

Operating tool; 3.5 mm and 2.5 mm blade width; for Installation Terminal Blocks TOPJOB® S

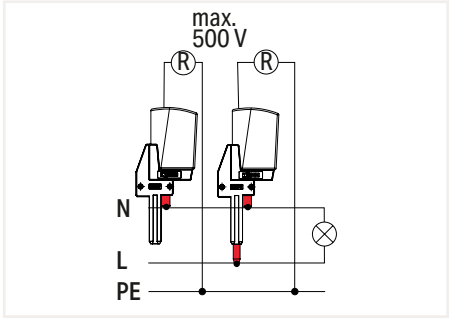
	2009-309	1

Operating tool; 3.5 mm and 5.5 mm blade width; for Installation Terminal Blocks TOPJOB® S

	2009-310	1



For multilevel installation terminal blocks with internal N-disconnection, test plug adapters can be inserted into the free vertical test slot when the N-potential is disconnected.



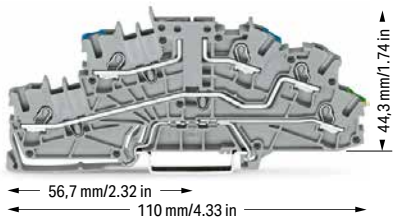
Test plug adapters for both individual N-potential measurement and insulation resistance measurement of the connected N- and L-potentials are available.

3

Multilevel Installation Terminal Block TOPJOB® S
2.5 (4) mm²; 2003 Series

3

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
250 V/4 kV/3; 10 A ❷	
400 V/6 kV/3; 10 A ❷	
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



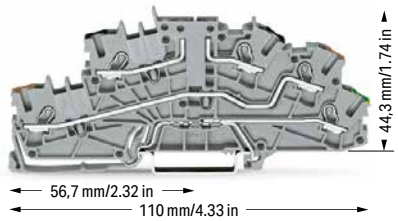
Multilevel installation terminal block; carrier terminal block without knife disconnect; gray
Maximum current depends on accessories used.

	Item No.	Pack. Unit
◯ N/L/PE	2003-6640	50

Multilevel installation terminal block; carrier terminal block without knife disconnect; blue middle-deck; green-yellow lower-deck printing; gray

◯ L/N/PE	2003-6661	50

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
250 V/4 kV/3; 10 A ❷	
400 V/6 kV/3; 10 A ❷	
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



Multilevel installation terminal block; carrier terminal block without knife disconnect; black upper-deck, brown middle-deck, green-yellow lower-deck printing
Maximum current depends on accessories used.

	Item No.	Pack. Unit
◯ P2/P1/PE	2003-6643	50

Multilevel installation terminal block; carrier terminal block without knife disconnect; brown upper-deck, black middle-deck, green-yellow lower-deck printing

◯ P1/P2/PE	2003-6660	50

❶ Conductor range: 0.25 … 4 mm² "s+f-st"; Push-in termination: 1 … 4 mm² "s" and 1 … 2.5 mm² "insulated ferrules, 12 mm"
Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 250 V / 400 V = rated voltage
4 kV / 6 kV = rated impulse voltage
3 = pollution degree
(see Section 14)
250 V/4 kV potential – ground
400 V/6 kV potential – potential

Please observe the application notes:
Jumpers, from page 152
Testing accessories, from page 151
Marking, from page 588

Approvals and corresponding ratings, visit www.wago.com

Accessories; 2003 Series

Appropriate marking systems: WMB/WMB Inline/Marking strips

N/L-test plug adapter; for vertical test slot; gray

2-pole	2003-499	100 (25)

N-test plug adapter; for vertical test slot; gray

1-pole	2003-500	100 (25)

End and intermediate plate; 0.8 mm thick

orange	2003-6692	100 (25)

Fuse plug with pull-tab; for 5 x 20 mm glass cartridge fuse
Electrical ratings are given by the fuse.

gray	2004-911	50

End and intermediate plate; only for use with fuse plugs; 1 mm thick

orange	2003-6693	100 (25)

Double-fuse plug; for 5 x 20 mm glass cartridge fuse
Electrical ratings are given by the fuse.

gray	2003-911	25

End and intermediate plate; 1 mm thick; only for use with double-fuse plugs

orange	2003-6694	100 (25)

Push-in type jumper bar; insulated; I_N 25 A; light gray

2-way	2002-402	25
3-way	2002-403	25
4-way	2002-404	25
5-way	2002-405	25
6-way	2002-406	25
7-way	2002-407	25
8-way	2002-408	25
9-way	2002-409	25
10-way	2002-410	25

Push-in type jumper bar; insulated; I_N 25 A; light gray

1 to 3	2002-433	25
1 to 4	2002-434	25
1 to 5	2002-435	25
1 to 6	2002-436	25
1 to 7	2002-437	25
1 to 8	2002-438	25
1 to 9	2002-439	25
1 to 10	2002-440	25

Push-in type wire jumper; insulated; 1.5 mm² conductor cross-section; I_N 18 A

L = 60 mm	2009-412	100 (10)
L = 110 mm	2009-414	100 (10)
L = 250 mm	2009-416	100 (10)

Accessories; 2003 Series

Appropriate marking systems: WMB/WMB Inline/Marking strips

Staggered jumper; insulated; I_N 25 A; light gray

2-way	2002-472	25
3-way	2002-473	25
4-way	2002-474	25
5-way	2002-475	25
6-way	2002-476	25
7-way	2002-477	25
8-way	2002-478	25
9-way	2002-479	25
10-way	2002-480	25
11-way	2002-481	25
12-way	2002-482	25

Customized staggered jumper; insulated; with contact lugs broken off at the factory and circuit printing; I_N 25 A; light gray

1-3	2002-473/011-000	25
1-3-5	2002-475/011-000	25
1-3-5-7	2002-477/011-000	25
1-3-5-7-9	2002-479/011-000	25
1-3-5-7-9-11	2002-481/011-000	25

Adjacent jumper for continuous commoning; insulated; I_N 25 A, light gray

2-way	2002-400	25

Adjacent jumper for continuous commoning; insulated; I_N 25 A; 1 to 3

light gray	2002-423	25
red	2002-423/000-005	25
blue	2002-423/000-006	25

Adjacent jumper for continuous commoning; insulated; I_N 25 A, light gray

5-way	2002-415	25

Test plug adapter; for 4 mm Ø test plug

gray	2009-174	100 (25)

Banana plug; for 4 mm socket diameter; color mixed; 10 x orange, white, black, blue, yellow; max. 42 V

	215-111	50

Testing tap; for max. 2.5 mm²

gray	2009-182	100 (25)

Accessories; 2003 Series

Appropriate marking systems:
WMB/WMB Inline/Marking strips

WMB Inline, plain; 1,500 WMB markers (5 mm)/reel; 5 … 5.2 mm stretchable

white	2009-115	1

Marking strip; plain; 11 mm wide; 50 m reel

white	2009-110	1

WMB marking card; white; 10 strips with 10 markers/card; 5 … 5.2 mm stretchable

plain	793-5501	5

WMB marking card; plain; 10 strips with 10 markers/card; 5 … 5.2 mm stretchable

yellow	793-5501/000-002	5
red	793-5501/000-005	5
blue	793-5501/000-006	5
gray	793-5501/000-007	5
orange	793-5501/000-012	5
light green	793-5501/000-017	5
green	793-5501/000-023	5
violet	793-5501/000-024	5

Screwless end stop; for DIN-35 rail; 6 mm wide

gray	249-116	100 (25)

Screwless end stop; for DIN-35 rail; 10 mm wide

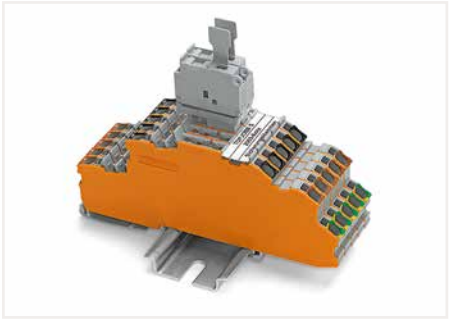
gray	249-117	50 (25)

Operating tool; 3.5 mm and 2.5 mm blade width; for Installation Terminal Blocks TOPJOB® S

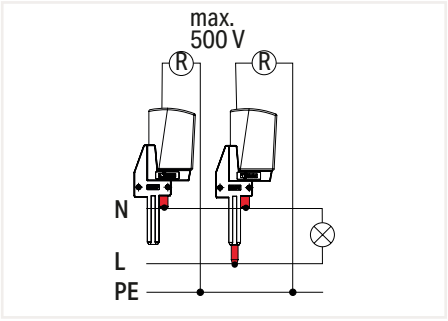
2009-309	1

Operating tool; 3.5 mm and 5.5 mm blade width; for Installation Terminal Blocks TOPJOB® S

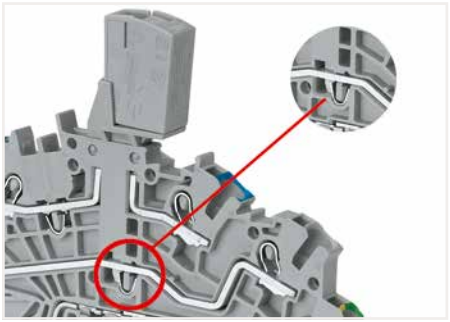
2009-310	1



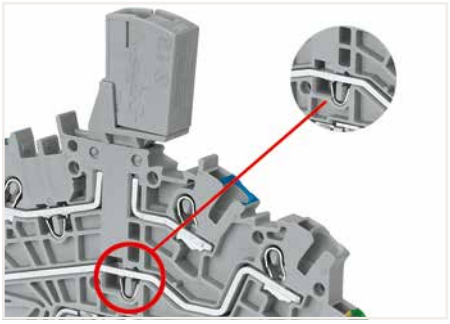
Single-fuse plugs can be used in combination with 1 mm thick end and intermediate plates on carrier terminal blocks without an N-knife disconnect.



Test plug adapters for both individual N-potential measurement and insulation resistance measurement of the connected N- and L-potentials are available.



Multilevel installation terminal block fitted with an N/L-test plug adapter for quick and safe insulation resistance measurement of the connected N- and L-potentials

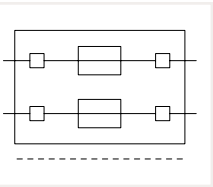


Multilevel installation terminal block fitted with an N-test plug adapter for insulation resistance measurement of the N-potential

3

Double-Fuse Plug TOPJOB® S on Carrier Terminal Block 2.5 (4) mm²
2003 Series

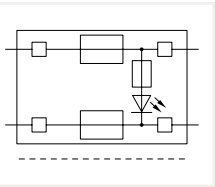
Technical Data
250 V / I_N 6.3 A
Plug width: 10.4 mm / 0.409 inch



Double-fuse plug; for 5 x 20 mm glass cartridge fuse
Electrical ratings are given by the fuse.

Color	Item No.	Pack. Unit
gray	2003-911	50

Technical Data
250 V / I_N 6.3 A
Plug width: 10.4 mm / 0.409 inch



Double-fuse plug; for 5 x 20 mm glass cartridge fuse; with LED; gray
Electrical ratings are given by the fuse and blown fuse indication. Leakage current in case of a blown fuse: LED 0.25 mA

	Item No.	Pack. Unit
230 V	2003-911/1000-923	50

Length for 2002-1661 – 66.5 mm / 2.62 inch
2-conductor carrier terminal block

Length for 2002-1761 – 76.8 mm / 3.02 inch
3-conductor carrier terminal block

Length for 2002-1861 – 87.5 mm / 3.45 inch
4-conductor carrier terminal block

Length for 2002-1961 – 72.9 mm / 2.87 inch
2-conductor carrier terminal block with additional jumper slot

Length for 2002-2961 – 108 mm / 4.25 inch
Double-deck carrier terminal block

Length for 2003-6640 – 110 mm / 4.33 inch
Multilevel Installation Terminal Block

Approvals and corresponding ratings, visit www.wago.com

Accessories; for fuse plugs

Appropriate marking systems: WMB/Marking strips

2-conductor carrier terminal block;
0.25 … 2.5 (4) mm² / 22 … 12 AWG
Terminal block width: 5.2 mm / 0.205 inch

gray	2002-1661	50

End and intermediate plate; 1 mm thick

orange	2002-1692	100 (25)
gray	2002-1691	100 (25)

3-conductor carrier terminal block;
0.25 … 2.5 (4) mm² / 22 … 12 AWG
Terminal block width: 5.2 mm / 0.205 inch

gray	2002-1761	50

End and intermediate plate; 1 mm thick

orange	2002-1792	100 (25)
gray	2002-1791	100 (25)

4-conductor carrier terminal block;
0.25 … 2.5 (4) mm² / 22 … 12 AWG
Terminal block width: 5.2 mm / 0.205 inch

gray	2002-1861	50

End and intermediate plate; 1 mm thick

orange	2002-1892	100 (25)
gray	2002-1891	100 (25)

End plate for fuse terminal blocks; 2 mm thick

orange	2002-992	100 (25)
gray	2002-991	100 (25)

2-conductor carrier terminal block;
0.25 … 2.5 (4) mm² / 22 … 12 AWG
Terminal block width: 5.2 mm / 0.205 inch

gray	2002-1961	50

End and intermediate plate; 1 mm thick

orange	2002-1992	100 (25)
gray	2002-1991	100 (25)

Double-deck carrier terminal block;
0.25 … 2.5 (4) mm² / 22 … 12 AWG
Terminal block width: 5.2 mm / 0.205 inch

L/L	2002-2961	50

Double-deck carrier terminal block;
0.25 … 2.5 (4) mm² / 22 … 12 AWG
Terminal block width: 5.2 mm / 0.205 inch

L/N	2002-2963	50

Double-deck carrier terminal block;
0.25 … 2.5 (4) mm² / 22 … 12 AWG
Terminal block width: 5.2 mm / 0.205 inch

L/L	2002-2941	50

End and intermediate plate; 1 mm thick

orange	2002-2992	100 (25)
gray	2002-2991	100 (25)

Shorting link; 5 x 20 mm; allows the fuse plug to be used as a disconnect plug

I_N 6.3 A	281-503	250 (25)

Accessories; for fuse plugs

Appropriate marking systems:
WMB/Marking strips

Multilevel installation terminal block;
0.25 … 2.5 (4) mm² / 22 … 12 AWG
Terminal block width: 5.2 mm / 0.205 inch

N/L/PE	2003-6640	50

Multilevel installation terminal block;
0.25 … 2.5 (4) mm² / 22 … 12 AWG
Terminal block width: 5.2 mm / 0.205 inch

L/N/PE	2003-6661	50

Multilevel installation terminal block;
0.25 … 2.5 (4) mm² / 22 … 12 AWG
Terminal block width: 5.2 mm / 0.205 inch

P2/P1/PE	2003-6643	50

Multilevel installation terminal block;
0.25 … 2.5 (4) mm² / 22 … 12 AWG
Terminal block width: 5.2 mm / 0.205 inch

P1/P2/PE	2003-6660	50

End and intermediate plate; 0.8 mm thick

orange	2003-6692	100 (25)

End and intermediate plate; 1 mm thick; only for use with double-fuse plugs

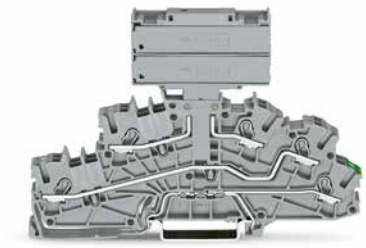
orange	2003-6694	100 (25)

WMB marking card; white; 10 strips with 10 markers/card; 5 … 5.2 mm stretchable

plain	793-5501	5

WMB marking card; plain; 10 strips with 10 markers/card; 5 … 5.2 mm stretchable

yellow	793-5501/000-002	5
red	793-5501/000-005	5
blue	793-5501/000-006	5
gray	793-5501/000-007	5
orange	793-5501/000-012	5
light green	793-5501/000-017	5
green	793-5501/000-023	5
violet	793-5501/000-024	5



Double-fuse plugs with 5 x 25 mm glass cartridge fuses can be used on carrier terminal blocks without an N-knife disconnect in standard terminal block width.

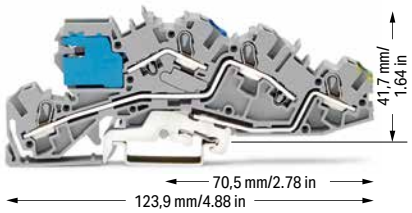
Glass cartridge fuses 5 x 20

Series Item No.	Overload and short circuit protection		Short circuit protection only	
	Individual argmt.	Group argmt.	Individual argmt.	Group argmt.
	Fuse terminal blocks			
2003-911 2003-911/....-....	1.6 W	1.6 W	2.5 W	2.5 W

When selecting glass cartridge fuses, make sure that the maximum power loss listed below is not exceeded. The power loss is determined according to IEC or EN 60947-7-3/VDE 0611-6 at 23°C. The temperature rise of the terminal blocks must be checked according to their application and mounting. Higher ambient temperatures represent an additional impact on fuse cartridges. Therefore, in such applications, the rated current must be reduced if necessary. More details are available from the manufacturers.

Multilevel Installation Terminal Block TOPJOB® S; with N-Disconnect Slide Link
4 (6) mm²; 2005 Series

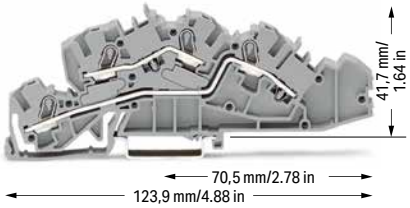
Technical Data	
0.5 … 4 (6) mm² ❶	20 … 10 AWG
250 V/4 kV/3; 36 A (36 A) ❷	
400 V/6 kV/3; 36 A (36 A) ❷	
Terminal block width: 6.2 mm / 0.244 inch	
11 … 13 mm / 0.43 … 0.51 inch	



Multilevel installation terminal block; with N-disconnect slide link; gray

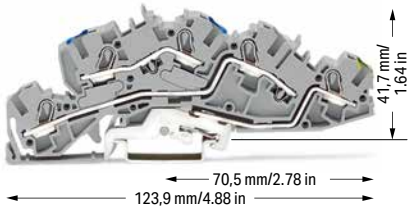
	Item No.	Pack. Unit
○ NT/L/PE	2005-7641	50

Technical Data	
0.5 … 4 (6) mm² ❶	20 … 10 AWG
400 V/6 kV/3 ❷	
I_N 36 A	
Terminal block width: 6.2 mm / 0.244 inch	
11 … 13 mm / 0.43 … 0.51 inch	



Multilevel installation terminal block; gray

	Item No.	Pack. Unit
○ L/L	2005-7642	50
○ N/L	2005-7649	50



Multilevel installation terminal block; with N-disconnect slide link; gray

	Item No.	Pack. Unit
○ N/L/PE	2005-7646	50

Multilevel installation terminal block; gray

	Item No.	Pack. Unit
○ L/L/PE	2005-7645	50

❶ Conductor range: 0.5 … 6 mm² "s+f-st";
Push-in termination: 1.5 … 6 mm² "s" and 1.5 … 4 mm² "insulated ferrules; 12 mm"
Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 250 V/400 V = rated voltage
4 kV/6 kV = rated impulse voltage
3 = pollution degree
(see Section 14)
250 V/4 kV potential – ground
400 V/6 kV potential – potential

Please observe the application notes:
Testing accessories, from page 151
Marking, from page 588

Approvals and corresponding ratings, visit www.wago.com

Accessories; 2005 Series

Appropriate marking systems: WMB/Marking strips

End and intermediate plate; 1 mm thick

orange	2005-7692	100 (25)

Busbar carrier; not suitable as an end stop; snaps onto DIN-35 rail; 1.5 mm thick

blue	2009-304	100 (25)

Busbar carrier; with end stop function and detachable separator plate; snaps onto DIN-35 rail; 7.5 mm thick

blue	2009-305	25

Busbar cover; 1000 mm long

transparent	777-303	1

Busbar; tin-plated; 1000 mm long; copper (10 x 3) mm

I_N 140 A	210-133	1

Lock-out; prevents reclosing of slide link; snap-on type

orange	2005-7300	100 (25)

N-supply terminal block; I_N 76 A; 16 mm²; 12 mm wide

blue	2016-7714	20

Ground supply terminal block; 16 mm²; 12 mm wide

green-yellow	2016-7607	20

Connector; for busbar; with blue cover; 2.5 … 16 mm²

blue	210-281	100 (50)

Connector; for busbar; 2.5 … 35 mm²

unplated	209-105	50

Accessories; 2005 Series

Appropriate marking systems: WMB/Marking strips

Insulation stop; 5 pcs/strip; 0.25 … 0.5 mm²

light gray	2004-171	200 (25)

Insulation stop; 5 pcs/strip; 0.75 … 1 mm²

dark gray	2004-172	200 (25)

Push-in type jumper bar; insulated; I_N 32 A; light gray

2-way	2004-402	25
3-way	2004-403	25
4-way	2004-404	25
5-way	2004-405	25
6-way	2004-406	25
7-way	2004-407	25
8-way	2004-408	25
9-way	2004-409	25
10-way	2004-410	25

Push-in type jumper bar; insulated; I_N 32 A; light gray

1 to 3	2004-433	25
1 to 4	2004-434	25
1 to 5	2004-435	25
1 to 6	2004-436	25
1 to 7	2004-437	25
1 to 8	2004-438	25
1 to 9	2004-439	25
1 to 10	2004-440	25

Test plug adapter; for 4 mm Ø test plug

gray	2009-174	100 (25)

Banana plug; for 4 mm socket diameter; color mixed; 10 x orange, white, black, blue, yellow; max. 42 V

	215-111	50

Testing tap; for max. 2.5 mm²

gray	2009-182	100 (25)

Test plug; with 500 mm cable; 2 mm Ø; max. 42 V

red	210-136	50

Test plug; with 500 mm cable; 2.3 mm Ø; max. 42 V

	210-137	50

Accessories; 2005 Series

Appropriate marking systems:
WMB/Marking strips

Marking strip; plain; 11 mm wide; 50 m reel

white	2009-110	1

WMB marking card; white; 10 strips with 10 markers/card; 5 … 5.2 mm stretchable

plain	793-5501	5

WMB marking card; plain; 10 strips with 10 markers/card; 5 … 5.2 mm stretchable

yellow	793-5501/000-002	5
red	793-5501/000-005	5
blue	793-5501/000-006	5
gray	793-5501/000-007	5
orange	793-5501/000-012	5
light green	793-5501/000-017	5
green	793-5501/000-023	5
violet	793-5501/000-024	5

Screwless end stop; for DIN-35 rail; 6 mm wide

gray	249-116	100 (25)

Screwless end stop; for DIN-35 rail; 10 mm wide

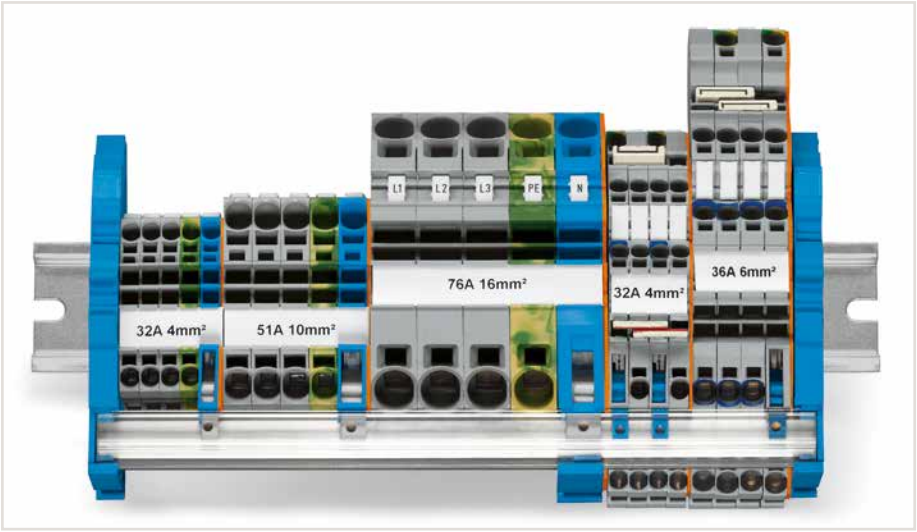
gray	249-117	50 (25)

Operating tool; 3.5 mm and 2.5 mm blade width; for Installation Terminal Blocks TOPJOB® S

	2009-309	1

Operating tool; 3.5 mm and 5.5 mm blade width; for Installation Terminal Blocks TOPJOB® S

	2009-310	1



Application note:
N-disconnect slide links, used in installation terminal blocks, consist of switch contacts that are opened and then closed again as part of regular circuit testing. To guarantee a reliable connection, a corrosion-resistant contact area is required on the N-busbar.

Historically, uninsulated copper busbars that have been cleaned/stripped of any possible corrosion prior to install can be used in dry, pollution-free locations.

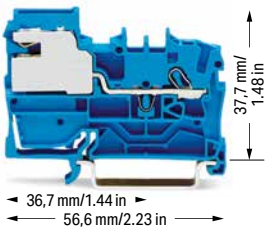
According to DIN VDE 0100-520 (VDE 0100, Part 520), installation equipment exposed to contamination or corrosive substances (e.g., water) that promote corrosion or deterioration, must be protected or made of a corrosion- or wear-resistant material. In these cases, tinned copper busbars guarantee a reliable connection.

WAGO only offers tinned copper busbars.

N-Disconnect Terminal Block and Power Distribution Disconnect Terminal Block TOPJOB® S
2002 Series; 2006 Series; 2010 Series; 2016 Series

3

Technical Data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
250 V/4 kV/3 ❺	
I_N 32 A	
Terminal block width: 5.2 mm / 0.205 inch	
10 … 12 mm / 0.39 … 0.47 inch	



1-conductor N-disconnect terminal block		
Color	Item No.	Pack. Unit
blue	2002-7114	50

1-conductor power distribution disconnect terminal block		
gray	2002-7111	50

Appropriate through and ground conductor terminal blocks,
see page 50

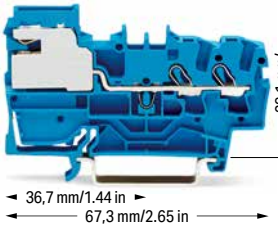
Accessories; item-specific

End and intermediate plate; 0.8 mm thick

orange 2002-7192 100 (25)

Lock-out; prevents reclosing of slide link; snap-on type

orange 2005-7300 100 (25)



2-conductor N-disconnect terminal block		
Color	Item No.	Pack. Unit
blue	2002-7214	50

2-conductor power distribution disconnect terminal block		
gray	2002-7211	50

Accessories; item-specific

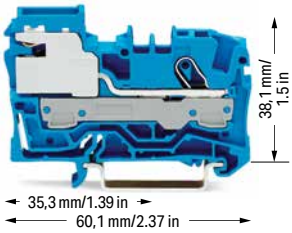
End and intermediate plate; 0.8 mm thick

orange 2002-7292 100 (25)

Lock-out; prevents reclosing of slide link; snap-on type

orange 2005-7300 100 (25)

Technical Data	
0.5 … 6 (10) mm² ❷	20 … 8 AWG
250 V/4 kV/3 ❺	
I_N 51 A	
Terminal block width: 7.5 mm / 0.295 inch	
13 … 15 mm / 0.51 … 0.59 inch	



1-conductor N-disconnect terminal block		
Color	Item No.	Pack. Unit
blue	2006-7114	50

1-conductor power distribution disconnect terminal block		
gray	2006-7111	50

Appropriate through and ground conductor terminal blocks,
see page 56

Accessories; item-specific

End and intermediate plate; 1 mm thick

orange 2006-7192 100 (25)

Lock-out; prevents reclosing of slide link; snap-on type

orange 2006-7300 100 (25)

Accessories; for N-conductor and power distribution disconnect terminal blocks

Appropriate marking systems: WMB/Marking strips

Busbar carrier; not suitable as an end stop; snaps onto DIN-35 rail; 1.5 mm thick

blue 2009-304 100 (25)

Busbar carrier; with end stop function and detachable separator plate; snaps onto DIN-35 rail; 7.5 mm thick

blue 2009-305 25

Busbar; tin-plated; 1000 mm long; copper (10 x 3) mm

I_N 140 A 210-133 1

Busbar cover; 1000 mm long

transparent 777-303 1

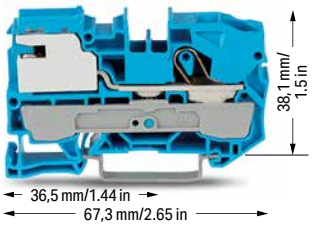
Connector; for busbar; 2.5 … 35 mm²

unplated 209-105 1

Connector; for busbar; with blue cover; 2.5 … 16 mm²

blue 210-281 100 (50)

Technical Data	
0.5 … 10 (16) mm² ❸	20 … 6 AWG
250 V/4 kV/3 ❺	
I_N 57 A	
Terminal block width: 10 mm / 0.394 inch	
17 … 19 mm / 0.67 … 0.91 inch	



1-conductor N-disconnect terminal block		
Color	Item No.	Pack. Unit
blue	2010-7114	25

1-conductor power distribution disconnect terminal block		
gray	2010-7111	25

Appropriate through and ground conductor terminal blocks,
see page 57

Accessories; item-specific

End and intermediate plate; 1 mm thick

orange 2010-7192 100 (25)

Lock-out; prevents reclosing of slide link; snap-on type

orange 2006-7300 100 (25)

Test plug; with 500 mm cable; 2 mm Ø; max. 42 V

red 210-136 50

Test plug; with 500 mm cable; 2.3 mm Ø; max. 42 V

210-137 50

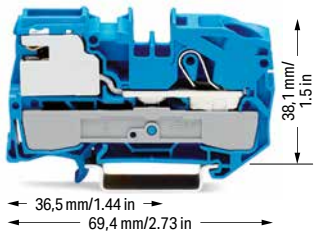
Marking strip; plain; 11 mm wide; 50 m reel

white 2009-110 1

WMB marking card; white; 10 strips with 10 markers/card; 5 … 5.2 mm stretchable

plain 793-5501 5

Technical Data	
0.5 … 16 (25 “f-st”) mm² ❸	20 … 4 AWG
250 V/4 kV/3 ❺	
I_N 65 A	
Terminal block width: 12 mm / 0.472 inch	
18 … 20 mm / 0.71 … 0.79 inch	



1-conductor N-disconnect terminal block		
Color	Item No.	Pack. Unit
blue	2016-7114	25

1-conductor power distribution disconnect terminal block		
gray	2016-7111	25

Appropriate through and ground conductor terminal blocks,
see page 58

Accessories; item-specific

End and intermediate plate; 1 mm thick

orange 2016-7192 100 (25)

Lock-out; prevents reclosing of slide link; snap-on type

orange 2006-7300 100 (25)

❶ Conductor range: 0.25 … 4 mm² “s+f-st”;
Push-in termination: 1 … 4 mm² “s” and 1 … 2.5 mm² “insulated ferrules, 12 mm”
Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

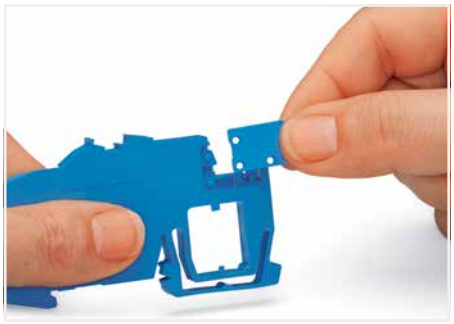
❷ Conductor range: 0.5 … 10 mm² “s+f-st”;
Push-in termination: 2.5 … 10 mm² “s” and 2.5 … 6 mm² “insulated ferrules; 12 mm”
Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❸ Conductor range: 0.5 … 16 mm² “s+f-st”;
Push-in termination: 4 … 16 mm² “s” and 4 … 10 mm² “insulated ferrules; 18 mm”
Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

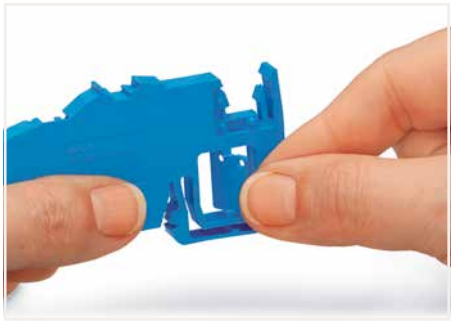
❹ Conductor range: 0.5 … 16 mm² “s+f-st”, 25 mm² “f-st”;
Push-in termination: 6 … 16 mm² “s” and 6 … 16 mm² “insulated ferrules; 18 mm”
Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❺ 250 V = rated voltage
4 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

Approvals and corresponding ratings,
visit www.wago.com

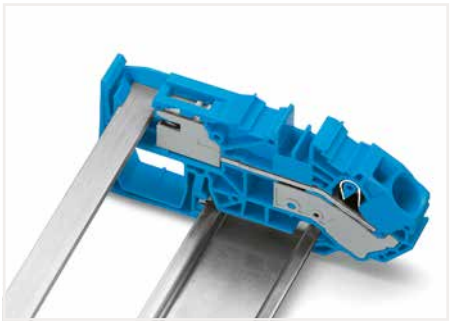


Inserting the separator plate into the busbar carrier to protect the N-busbar against accidental contact.



Removing the separator plate from the busbar carrier or from the N-disconnect terminal block.

Inserting separator plate removed from N-disconnect terminal block.



Touch-proof N-busbar via inserted separator plate

N-conductor disconnect terminal blocks:
For the construction and operation of power installations in fire-prone, hazardous locations or public buildings – such as conference centers, stores, hospitals, schools, theaters or hotels – the DIN VDE 0100-710 or DIN VDE 0100-718 standards shall be observed. DIN VDE 0100-482 shall also be observed for fire-prone, hazardous locations. These VDE regulations mandate that every neutral conductor must be provided with a disconnection device so, e.g., insulation testing is possible for every circuit without disconnecting the N-conductor.
WAGO’s N-disconnect terminal blocks meet this requirement.

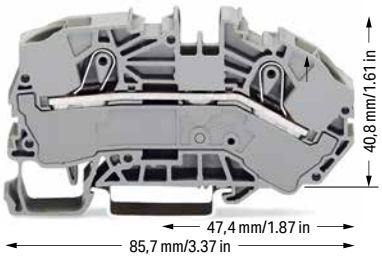
Power distribution disconnect terminal blocks:
According to DIN VDE 0100-710, “Requirements for operating facilities, rooms and special installations – medical facilities,” equipotential bonding conductors shall be run on a potential equalization busbar. The potential equalization busbar and the protective ground conductor busbar must be mounted in a common housing and be connected to each other using a disconnectable copper conductor of minimum 16 mm² (6 AWG). Furthermore, all equipotential bonding conductors must be connected to the potential equalization busbar and clearly arranged so they can be disconnected individually and accessed at any time. Depending on their function, they must be provided with captive marking.
WAGO’s power distribution disconnect terminal blocks meet these requirements.

PUSH-IN CAGE CLAMP®

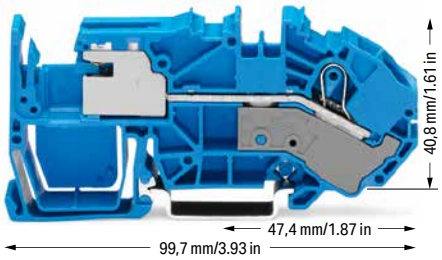
Supply Terminal Block for Distribution Boxes/Ground/N-Disconnect and Power Distribution Disconnect Terminal Block TOPJOB® S

16 (25 “f-st”) mm²; 2016 Series

Technical Data	
0.5 … 16 (25 “f-st”) mm² ❶	20 … 4 AWG
800 V/8 kV/3 ❷	
I_N 76 A	
Terminal block width: 12 mm / 0.472 inch	
18 … 20 mm / 0.71 … 0.79 inch	



Technical Data	
0.5 … 16 (25 “f-st”) mm² ❶	20 … 4 AWG
250 V/4 kV/3 ❸	
I_N 76 A	
Terminal block width: 12 mm / 0.472 inch	
18 … 20 mm / 0.71 … 0.79 inch	



❶ Conductor range: 0.5 … 16 mm² “s+f-st”, 25 mm² “f-st”; Push-in termination: 6 … 16 mm² “s” and 6 … 16 mm² “insulated ferrules; 18 mm”
Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 800 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

❸ 250 V = rated voltage
4 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

Approvals and corresponding ratings, visit www.wago.com

2-conductor supply terminal block for distribution boxes

Color	Item No.	Pack. Unit
gray	2016-7601	20
blue	2016-7604	20

1-conductor N-disconnect terminal block

Color	Item No.	Pack. Unit
blue	2016-7714	20

2-conductor ground terminal block
15 mm high DIN-35 rails shall be used for a current load higher than 76 A!

green-yellow	2016-7607	20

1-conductor power distribution disconnect terminal block

gray	2016-7711	20

N-conductor disconnect terminal blocks:
For the construction and operation of power installations in fire-prone, hazardous locations or public buildings – such as conference centers, stores, hospitals, schools, theaters or hotels – the DIN VDE 0100-710 or DIN VDE 0100-718 standards shall be observed. DIN VDE 0100-482 shall also be observed for fire-prone, hazardous locations. These VDE regulations mandate that every neutral conductor must be provided with a disconnection device so, e.g., insulation testing is possible for every circuit without disconnecting the N-conductor.
WAGO’s N-disconnect terminal blocks meet this requirement.

Accessories; item-specific

End and intermediate plate; 1 mm thick

orange	2016-7692	100 (25)
gray	2016-7691	100 (25)

Accessories; item-specific

End and intermediate plate; 1 mm thick

orange	2016-7792	100 (25)

Lock-out; prevents reclosing of slide link; snap-on type

orange	2006-7300	100 (25)

Accessories; 2016 Series

Appropriate marking systems: WMB/Marking strips

Push-in type jumper bar; insulated; I_N 41 A; light gray

2-way	2016-402	25
3-way	2016-403	25
4-way	2016-404	25
5-way	2016-405	25

Push-in type jumper bar; insulated; I_N 41 A; light gray

1 to 3	2016-433	25
1 to 4	2016-434	25
1 to 5	2016-435	25

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks

yellow	2016-115	100 (25)

Finger guard; touch-proof cover protects unused conductor entries

yellow	2016-100	100 (25)

Busbar; tin-plated; 1000 mm long; copper (10 x 3) mm

I_N 140 A	210-133	1

Busbar cover; 1000 mm long

transparent	777-303	1

Test plug adapter; for 4 mm Ø test plug

gray	2009-174	100 (25)

Testing tap; for max. 2.5 mm²

gray	2009-182	100 (25)

Test plug; with 500 mm cable; 2 mm Ø; max. 42 V

red	210-136	50

Test plug; with 500 mm cable; 2.3 mm Ø; max. 42 V

yellow	210-137	50

Marking strip; plain; 11 mm wide; 50 m reel

white	2009-110	1

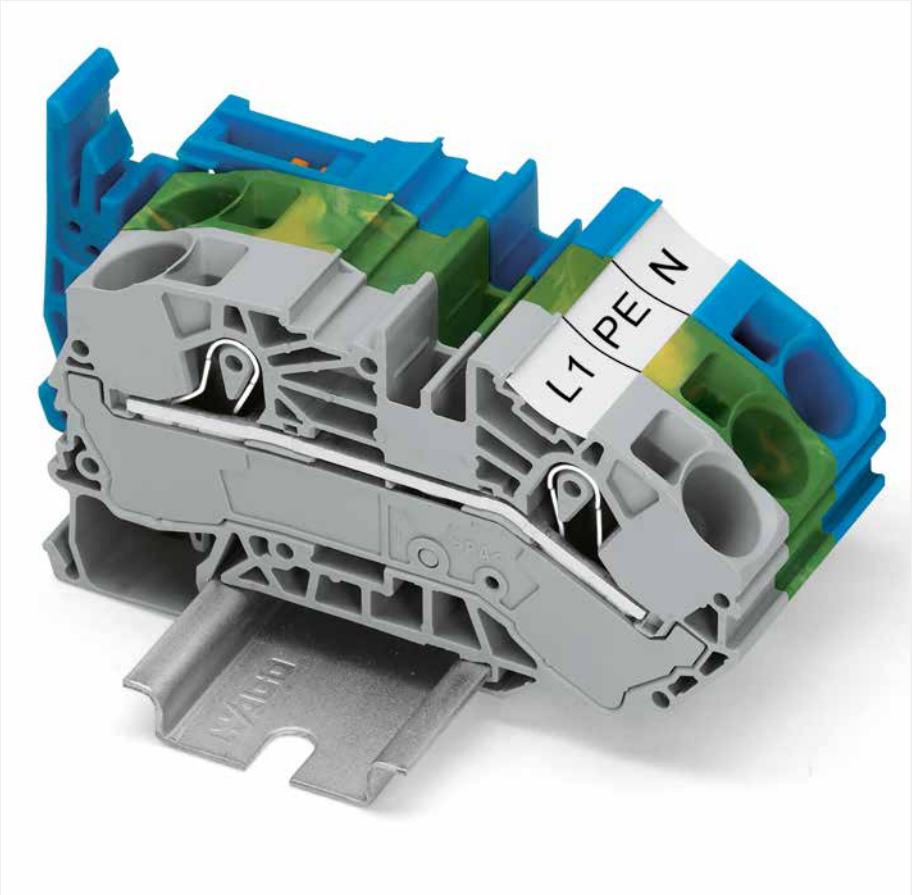
WMB marking card; white; 10 strips with 10 markers/card; 5 … 5.2 mm stretchable

plain	793-5501	5

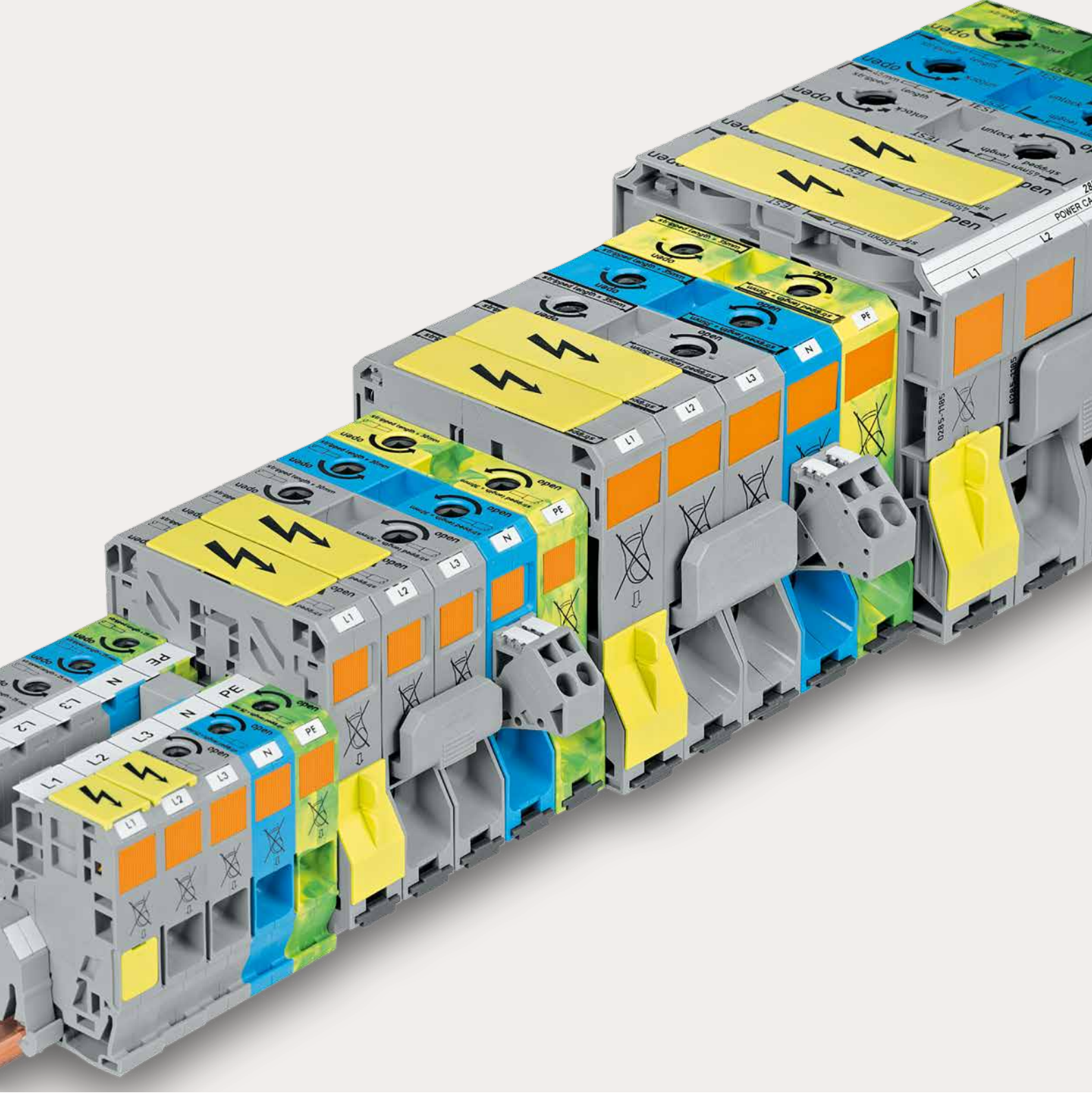
Power distribution disconnect terminal blocks:
According to DIN VDE 0100-710, “Requirements for operating facilities, rooms and special installations – medical facilities,” equipotential bonding conductors shall be run on a potential equalization busbar. The potential equalization busbar and the protective ground conductor busbar must be mounted in a common housing and be connected to each other using a disconnectable copper conductor of minimum 16 mm² (6 AWG). Furthermore, all equipotential bonding conductors must be connected to the potential equalization busbar and clearly arranged so they can be disconnected individually and accessed at any time. Depending on their function, they must be provided with captive marking.
WAGO’s power distribution disconnect terminal blocks meet these requirements.

PUSH-IN CAGE CLAMP®

Supply Terminal Blocks Assembly TOPJOB® S



With an angled conductor entry, the 2016 Series Supply Terminal Blocks simplify the wiring of solid conductors in distribution boxes. Solid conductors of the largest cross-section can be connected easily, enabling the distribution box cover to fit without interfering with the conductors.



WAGO High-Current Rail-Mount Terminal Blocks

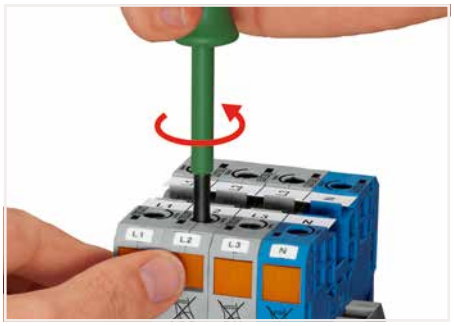
POWER CAGE CLAMP®

WAGO High-Current Rail-Mount Terminal Blocks
Side-Entry Wiring

			Page
	Through Terminal Blocks and Ground Conductor Terminal Blocks 6 … 35 mm² (10 … 2 AWG)	285 Series	220
	Power Taps; for 35 mm² (2 AWG) Terminal Blocks 0.2 … 6 mm² (24 … 10 AWG)	285 Series	220
	Through Terminal Blocks and Ground Conductor Terminal Blocks 10 … 50 (70) mm² (8 … 1/0 AWG)	285 Series	224
	Power Taps; for 50 mm² (1/0 AWG) Terminal Blocks 0.2 … 6 mm² (24 … 10 AWG)	285 Series	224
	Through Terminal Blocks; with Mounting Flanges 10 … 50 (70) mm² (8 … 1/0 AWG)	285 Series	225
	Through Terminal Blocks and Ground Conductor Terminal Blocks 25 … 95 mm² (4 … 4/0 AWG)	285 Series	226
	Power Taps; for 95 mm² (4/0 AWG) Terminal Blocks 0.2 … 10 (16) mm² (24 … 8 AWG)	285 Series	226
	Through Terminal Blocks; with Mounting Flanges 25 … 95 mm² (4 … 4/0 AWG)	285 Series	227
	Through Terminal Blocks and Ground Conductor Terminal Blocks 50 … 185 mm² (1/0 AWG … 350 kcmil)	285 Series	228
	Power Taps; for 185 mm² (350 kcmil) Terminal Blocks 0.2 … 10 (16) mm² (24 … 8 AWG)	285 Series	228
	Through Terminal Blocks; with Mounting Flanges 50 … 185 mm² (1/0 AWG … 350 kcmil)	285 Series	229

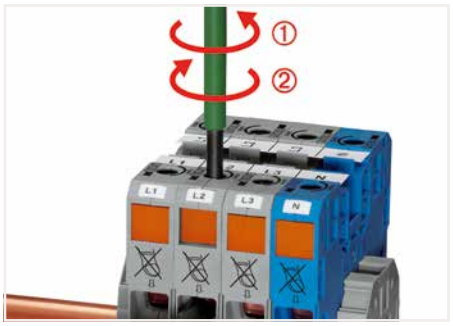
4

High-Current Rail-Mount Terminal Blocks; 35 mm²
285 Series
Description and Installation



Conductor termination – step 1:
Rotate the operating tool (5.5 mm blade width) counter-clockwise. Next, push in the orange locking tab. The clamp is locked open for hands-free wiring.

Conductor termination – step 2:
Insert a stripped conductor into the clamping unit until it hits backstop. Hold in this position.



Conductor termination – step 3:
A short counter-clockwise rotation closes the clamp, securing the conductor ①.
When unlocked, allow operating tool to rotate clockwise ② to securely terminate the conductor.

The power tap is inserted into the jumper contact slot. It can be fitted with a strain relief plate.

Testing

Testing with test plug adapter (283-404).

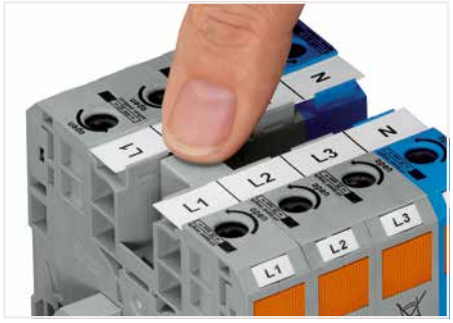
High-current rail-mount terminal blocks, 35 mm² (2 AWG) and 50 mm² (2/0 AWG)

POWER CAGE CLAMP terminates the following copper conductors:
solid

stranded

fine-stranded, also with tinned single strands

POWER CAGE CLAMP®



Commoning adjacent terminal blocks using a centrally positioned push-in jumper.

Slide the marking strip laterally to remove the jumper.

Commoning 35 mm² (2 AWG) POWER CAGE CLAMP Terminal Blocks with 10/16 mm² (8/6 AWG) 2010 and 2016 Series Terminal Blocks TOPJOP® S using step-down jumpers (not valid for 2016-76xx and 2016-77xx).

4

Step-down jumpers common terminal blocks of different sizes, without losing a conductor clamping point. This can be beneficial on long conductor runs where voltage drop can be a problem. A large conductor can be easily connected to smaller conductors at the distribution point.

Step-down jumpers are simply pushed down for full insertion, similar to adjacent jumpers. Commoning may be made in either direction using the special thin end plate to cover the open side. Additional through terminal blocks having a smaller cross-section may be commoned using adjacent jumpers.

In this case, pay attention that:
The total current of the outgoing circuits does not exceed the nominal current of the step-down jumper.

Side-entry wiring means that even larger conductors, which have limited flexibility, can be easily connected.

WMB markers or self-adhesive, printable marking strips can be accommodated on 35, 50 and 95 mm² high-current terminal blocks.

Marker carrier for marking strip or 2 x WMB markers for 285-13x, 285-15x and 285-19x terminal blocks

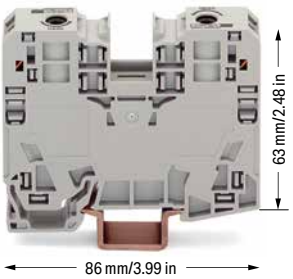
fine-stranded,
with ferrule
(gastight crimped)

POWER CAGE CLAMP®

High-Current, Through/Ground Conductor and Ex Terminal Block
35 mm²; 285 Series

4

Technical Data	
6 … 35 mm²	10 … 2 AWG
1000 V/8 kV/3 ❶	600 V, 115 A
I_N 125 A	600 V, 115 A
Terminal block width: 16 mm / 0.63 inch	
25 mm / 0.98 inch	



Technical Data	
0.2 … 6 mm²	24 … 10 AWG
800 V/8 kV/3 ❷	600 V, 30 A
I_N 32 A	600 V, 32 A
Module width: 8 mm / 0.315 inch	
12 … 13 mm / 0.47 … 0.51 inch	

❶ 1000 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

❷ 800 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

❸ Terminal blocks with an Ex mark are suitable for Ex e II applications.
880 V, 101 A
1 jumper, 75 A
(see Section 14)

Please observe the application notes:
Step-down jumpers, see page 219
Marking, from page 588

Approvals and corresponding ratings, visit www.wago.com

2-conductor through terminal block; only for DIN 35 x 15 rail

Color	Item No.	Pack. Unit
gray	285-135	15
blue	285-134	15
light gray	285-935 ❸	15
dark gray/yellow	285-131	15

2-conductor ground terminal block; only suitable for DIN 35 x 15 rail; 2.3 mm thick

green-yellow	285-137	15
green-yellow	285-137/999-950 ❸	15

Power tap; for 35 mm² high-current terminal blocks

Color	Item No.	Pack. Unit
gray	285-427	5

Accessories; item-specific

Adjacent jumper; insulated; I_N 85 A

gray | 285-435 | 50 (25)

Step-down jumper; insulated; I_N 90 A

gray | 285-430 | 50 (25)

Protective warning marker; with a black high-voltage symbol

yellow | 285-420 | 100 (25)

Finger guard; touch-proof cover protects unused conductor entries

yellow | 285-421 | 100 (25)

Test plug adapter; 11.6 mm wide; for 4 mm Ø test plug; for 1.5 … 16 mm² terminal blocks

gray | 283-404 | 25

Three-phase set; with 35 mm² high-current terminal blocks

285-139 | 1

Power tap; I_N 24 A; with 500 mm cable; for 16 mm² (283/783 Series) and 35 mm² (285/785 Series) rail-mount terminal blocks

gray | 283-407 | 25

Operating tool with a partially insulated shaft; type 3; (5.5 x 0.8) mm blade

210-721 | 1

Accessories; item-specific

Strain relief plate; gray

1-pole | 769-410 | 100 (25)

Test plug; with 500 mm cable; 2 mm Ø; max. 42 V

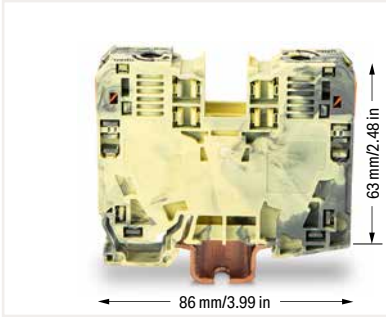
red | 210-136 | 50

WMB marking card; white; 10 strips with 10 markers/card; for 5 … 17.5 mm terminal block width

plain | 793-501 | 5

WMB marking card; white; 10 strips with 10 markers/card; 5 … 5.2 mm stretchable

plain | 793-5501 | 5



2-conductor through terminal block, dark gray/yellow (285-131), for ground connection without contact to the DIN-rail

Accessories; for high-current terminal blocks

Appropriate marking systems:
WMB/WMB Inline/Marking strips

Copper DIN-rail; per EN 60715; 35 x 15 mm; 2.3 mm thick; 2 m long

unslotted | 210-198 | 10

Marking strip; plain; 11 mm wide; 50 m reel

white | 2009-110 | 1

WMB marking card; white; 10 strips with 10 markers/card; for 5 … 17.5 mm terminal block width

plain | 793-501 | 5

WMB marking card; white; 10 strips with 10 markers/card; 5 … 5.2 mm stretchable

plain | 793-5501 | 5

Marker carrier; for POWER CAGE CLAMP 35/50/95 mm²; 10.4 mm wide

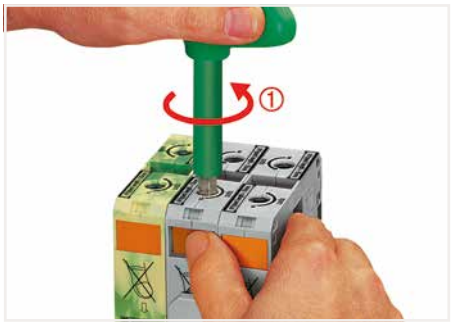
gray | 285-442 | 25

Screwless end stop; for DIN-35 rail; 14 mm wide

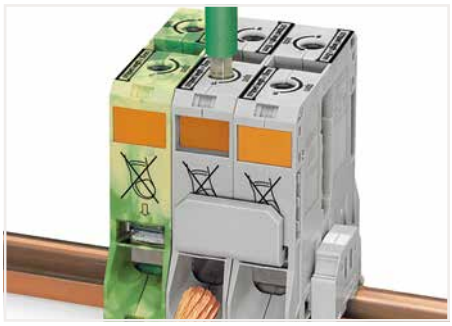
gray | 249-197 | 10

Always push voltage tap (283-407) down into the terminal block until fully inserted!

High-Current Rail-Mount Terminal Blocks; 50 … 185 mm²
285 Series
Description and Installation



Conductor termination – step 1:
Rotate the T-wrench counter-clockwise to the stop ①. Next, push in the orange locking tab. The clamp is locked open for hands-free wiring.



Conductor termination – step 2:
Insert a stripped conductor into the clamping unit until it hits backstop. Hold in this position.

Conductor termination – step 3:
A short counter-clockwise rotation ② releases the tab. When unlocked, the T-wrench rotates clockwise, securely clamping the conductor.

For the optimal clamping force:
- Bend conductor.
- Cut conductor to length (conductor end must be straight).
- Stripping a conductor.

Always observe the printed strip length!

Grounding foot:
Ground conductor terminal blocks (limited to max. 120 mm²/250 kcmil per EN 60947-7-2) must be snapped onto a 2.3 mm thick copper DIN-rail.

Protective warning marker may indicate::
Notice: Power is still on even after switching off the main switch!

Risk of injury!
Do not insert fingers in the conductor entry!

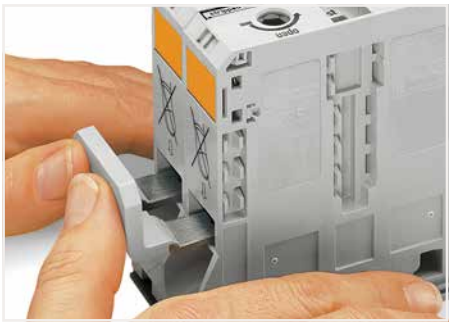
Yellow, detachable finger guards provide touch-proof safety by shielding jumper contact slots and/or unused conductor entries.

POWER CAGE CLAMP terminates the following copper conductors:
solid

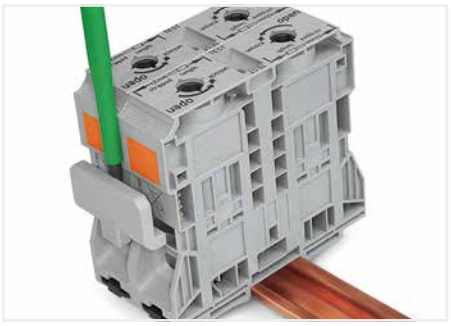
stranded

fine-stranded, also with tinned single strands

POWER CAGE CLAMP®



Commoning with an adjacent jumper: insert the jumper above the conductor entry hole – prior to conductor termination. The nominal cross-section remains unchanged.



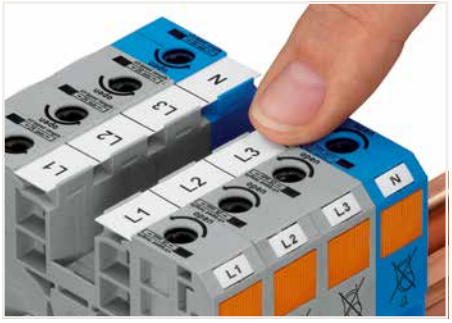
Removing jumper via operating tool.

Reliably and easily tap directly into the power supply. Insert the unwired tap before opening the clamping unit.

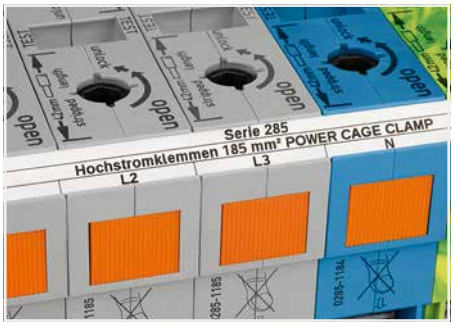
4

Testing via touch-proof 4 mm Ø test plugs (not available from WAGO, but offered by industry suppliers such as, Multi-Contact Deutschland GmbH).

Testing



WMB markers or self-adhesive, printable marking strips can be accommodated on 35, 50 and 95 mm² high-current terminal blocks.



In addition to WMB markers, marking strips can be directly applied to 185 mm² (350 kcmil) high-current terminal blocks.

fine-stranded, with ferrule (gastight crimped)

POWER CAGE CLAMP®

High-Current, Through/Ground Conductor and Ex Terminal Block
50 (70 “f-st”) mm²; 285 Series

4

Technical Data	
10 … 50 (70 “f-st”) mm²	8 … 1/0 AWG
1000 V/8 kV/3 ❶	600 V, 150 A
I_N 150 A	600 V, 150 A
Terminal block width: 20 mm / 0.787 inch	
30 mm / 1.18 inch	

2-conductor through terminal block; only for DIN 35 x 15 rail		
Color	Item No.	Pack. Unit
gray	285-150	5
blue	285-154	5
light gray	285-950 ❷	5
dark gray/yellow	285-151	5
2-conductor ground terminal block; only suitable for DIN 35 x 15 rail; 2.3 mm thick; copper		
green-yellow	285-157	5
green-yellow	285-157/999-950 ❷	5

Accessories; item-specific

Adjacent jumper; insulated; I_N 150 A, for 1 jumper; I_N 130 A, for 2 … 4 jumpers

gray | 285-450 | 100 (25)

Protective warning marker; with a black high-voltage symbol

yellow | 285-440 | 50 (25)

Protective warning marker; with a black high-voltage symbol

yellow | 285-449 | 25

Finger guard; touch-proof cover protects unused conductor entries and jumper slots

yellow | 285-441 | 100 (25)

Three-phase set; with 50 mm² high-current terminal blocks

285-159 | 1

Copper DIN-rail; per EN 60715; 35 x 15 mm; 2.3 mm thick; 2 m long

unslotted | 210-198 | 10

Screwless end stop; for DIN-35 rail; 14 mm wide

gray | 249-197 | 10

T-wrench with a partially insulated shaft

285-172 | 1

Technical Data	
0.2 … 6 mm²	24 … 10 AWG
1000 V/8 kV/3 ❶	600 V, 30 A
I_N 41 A	600 V, 41 A
Module width: 16 mm / 0.63 inch	
12 … 13 mm / 0.47 … 0.51 inch	

Power tap; for 50 mm² high-current terminal blocks		
Color	Item No.	Pack. Unit
gray	285-447	5

Accessories; item-specific

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks

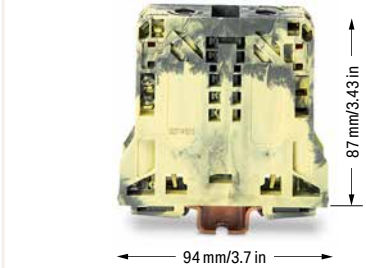
yellow | 282-415 | 50 (25)

WMB marking card; white; 10 strips with 10 markers/card; for 5 … 17.5 mm terminal block width

plain | 793-501 | 5

WMB marking card; white; 10 strips with 10 markers/card; 5 … 5.2 mm stretchable

plain | 793-5501 | 5



2-conductor through terminal block, dark gray/yellow (285-151), for ground connection without contact to the DIN-rail

❶ 1000 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

❷ Terminal blocks with an Ex mark are suitable for Ex e II applications.
880 V, 134 A
(see Section 14)

Adjacent jumpers (285-450) can only be removed or inserted when the clamp is closed.

Approvals and corresponding ratings, visit www.wago.com

Accessories; for high-current terminal blocks

Appropriate marking systems:
WMB/WMB Inline/Marking strips

Marking strip; plain; 11 mm wide; 50 m reel

white | 2009-110 | 1

WMB marking card; white; 10 strips with 10 markers/card; for 5 … 17.5 mm terminal block width

plain | 793-501 | 5

WMB marking card; white; 10 strips with 10 markers/card; 5 … 5.2 mm stretchable

plain | 793-5501 | 5

Marker carrier; for POWER CAGE CLAMP 35/50/95 mm²; 10.4 mm wide

gray | 285-442 | 25

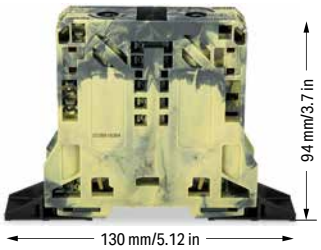
Marker carrier for marking strip or 2 x WMB markers for 285-13x, 285-15x and 285-19x terminal blocks

POWER CAGE CLAMP®

High-Current Through and Ex Terminal Block; with Mounting Flanges
50 (70 “f-st”) mm²; 285 Series

Technical Data	
10 … 50 (70 “f-st”) mm²	8 … 1/0 AWG
1000 V/8 kV/3 ❶	
I_N 150 A	
Terminal block width: 20 mm / 0.787 inch	
30 mm / 1.18 inch	

Technical Data	
10 … 50 (70 “f-st”) mm²	8 … 1/0 AWG
1000 V/8 kV/3 ❶	
I_N 150 A	
Terminal block width: 20 mm / 0.787 inch	
30 mm / 1.18 inch	



❶ 1000 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

❷ Terminal blocks with an Ex mark are suitable for Ex e II applications.
880 V, 134 A
(see Section 14)

Adjacent jumpers (285-450) can only be removed or inserted when the clamp is closed.

Approvals and corresponding ratings, visit www.wago.com

4

2-conductor through terminal block; with mounting flanges		
Color	Item No.	Pack. Unit
gray	285-141	5
blue	285-144	5
light gray	285-143 ❷	5

2-conductor through terminal block; with mounting flanges		
Color	Item No.	Pack. Unit
dark gray/yellow	285-147	5
dark gray/yellow	285-147/999-950 ❷	5

Optionally, insert block-to-block connector (285-448) into housing slot.

Accessories; for high-current terminal blocks

Appropriate marking systems: WMB/WMB Inline/Marking strips

Adjacent jumper; insulated; I_N 150 A, for 1 jumper; I_N 130 A, for 2 … 4 jumpers

gray | 285-450 | 100 (25)

Block-to-block connector; for 50 mm² high-current terminal blocks

orange | 285-448 | 50 (25)

Protective warning marker; with a black high-voltage symbol

yellow | 285-440 | 50 (25)

Protective warning marker; with a black high-voltage symbol

yellow | 285-449 | 25

Finger guard; touch-proof cover protects unused conductor entries and jumper slots

yellow | 285-441 | 100 (25)

Three-phase set; with 50 mm² high-current terminal blocks

285-148 | 1

Power tap; for 50 mm² high-current terminal blocks

gray | 285-447 | 5

T-wrench with a partially insulated shaft

285-172 | 1

Marking strip; plain; 11 mm wide; 50 m reel

white | 2009-110 | 1

WMB marking card; white; 10 strips with 10 markers/card; for 5 … 17.5 mm terminal block width

plain | 793-501 | 5

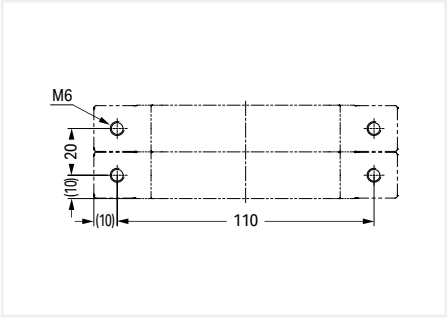
WMB marking card; white; 10 strips with 10 markers/card; 5 … 5.2 mm stretchable

plain | 793-5501 | 5

Marker carrier; for POWER CAGE CLAMP 35/50/95 mm²; 10.4 mm wide

gray | 285-442 | 25

Align and snap high-current, through terminal blocks together.



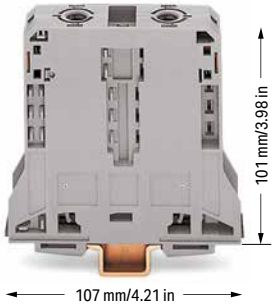
Dimensions (in mm):
Drill hole separation distance

POWER CAGE CLAMP®

High-Current, Through/Ground Conductor and Ex Terminal Block
95 mm²; 285 Series

4

Technical Data	
25 … 95 mm²	4 … 4/0 AWG
1000 V/8 kV/3 ❷	600 V, 200 A
I_N 232 A	600 V, 210 A
Terminal block width: 25 mm / 0.984 inch	
35 mm / 1.38 inch	



Technical Data	
0.2 … 10 (16) mm² ❶	24 … 8 AWG
1000 V/8 kV/3 ❷	600 V, 50 A
I_N 57 A	
Module width: 20 mm / 0.787 inch	
12 … 13 mm / 0.47 … 0.51 inch	

❶ Power tap; for 95 mm² high-current terminal blocks
Max. conductor size: 16 mm²

❷ 1000 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

❸ Terminal blocks with an Ex mark are suitable for Ex e II applications.
25 … 95 mm² / 4 … 4/0 AWG
880 V, 211 A
1 jumper, 211 A
2 … 4 jumpers, 175 A
35 … 70 mm² / 2 … 2/0 AWG
for ground conductor terminal blocks
(see Section 14)

Approvals and corresponding ratings, visit www.wago.com

2-conductor through terminal block; only for DIN 35 x 15 rail

Color	Item No.	Pack. Unit
gray	285-195	5
blue	285-194	5
light gray	285-995 ❸	5
dark gray/yellow	285-191	5

2-conductor ground terminal block; only suitable for DIN 35 x 15 rail; 2.3 mm thick; copper

green-yellow	285-197	5
green-yellow	285-197/999-950 ❸	5

Power tap; for 95 mm² high-current terminal blocks

Color	Item No.	Pack. Unit
gray	285-407	5

Accessories; item-specific

Adjacent jumper; insulated; I_N 232 A, for 1 jumper; I_N 192 A, for 2 … 4 jumpers

gray | 285-495 | 25

Protective warning marker; with a black high-voltage symbol

yellow | 285-170 | 50 (25)

Protective warning marker; with a black high-voltage symbol

yellow | 285-175 | 25

Finger guard; touch-proof cover protects unused conductor entries and jumper slots

yellow | 285-169 | 25

Three-phase set; with 95 mm² high-current terminal blocks

285-199 | 1

Copper DIN-rail; per EN 60715; 35 x 15 mm; 2.3 mm thick; 2 m long

unslotted | 210-198 | 10

Screwless end stop; for DIN-35 rail; 14 mm wide

gray | 249-197 | 10

T-wrench with a partially insulated shaft

285-172 | 1

Accessories; item-specific

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks

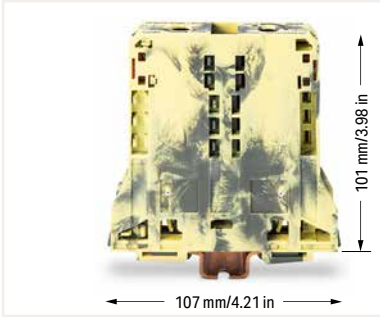
yellow | 284-415 | 50 (25)

WMB marking card; white; 10 strips with 10 markers/card; for 5 … 17.5 mm terminal block width

plain | 793-501 | 5

WMB marking card; white; 10 strips with 10 markers/card; 5 … 5.2 mm stretchable

plain | 793-5501 | 5



2-conductor through terminal block, dark gray/yellow (285-191), for ground connection without contact to the DIN-rail

Accessories; for high-current terminal blocks

Appropriate marking systems:
WMB/WMB Inline/Marking strips

Marking strip; plain; 11 mm wide; 50 m reel

white | 2009-110 | 1

WMB marking card; white; 10 strips with 10 markers/card; for 5 … 17.5 mm terminal block width

plain | 793-501 | 5

WMB marking card; white; 10 strips with 10 markers/card; 5 … 5.2 mm stretchable

plain | 793-5501 | 5

Marker carrier; for POWER CAGE CLAMP 35/50/95 mm²; 10.4 mm wide

gray | 285-442 | 25

Marker carrier for marking strip or 2 x WMB markers for 285-13x, 285-15x and 285-19x terminal blocks

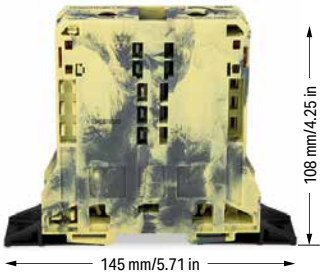
POWER CAGE CLAMP®

High-Current Through Terminal Block; with Mounting Flanges
95 mm²; 285 Series

Technical Data	
25 … 95 mm²	4 … 4/0 AWG
1000 V/8 kV/3 ❶	
I_N 232 A	
Terminal block width: 25 mm / 0.984 inch	
35 mm / 1.38 inch	

2-conductor through terminal block; with mounting flanges		
Color	Item No.	Pack. Unit
gray	285-181	5
blue	285-184	5

Technical Data	
25 … 95 mm²	4 … 4/0 AWG
1000 V/8 kV/3 ❶	
I_N 232 A	
Terminal block width: 25 mm / 0.984 inch	
35 mm / 1.38 inch	



2-conductor through terminal block; with mounting flanges		
Color	Item No.	Pack. Unit
dark gray/yellow	285-187	5

❶ 1000 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

Approvals and corresponding ratings, visit www.wago.com

Optionally, insert block-to-block connector (285-168) into housing slot.

Accessories; for high-current terminal blocks

Appropriate marking systems: WMB/WMB Inline/Marking strips

Adjacent jumper; insulated; I_N 232 A, for 1 jumper; I_N 192 A, for 2 … 4 jumpers

gray | 285-495 | 25

Block-to-block connector; for 95 mm² high-current terminal blocks

orange | 285-168 | 50 (25)

Protective warning marker; with a black high-voltage symbol

yellow | 285-170 | 25

Protective warning marker; with a black high-voltage symbol

yellow | 285-175 | 25

Finger guard; touch-proof cover protects unused conductor entries and jumper slots

yellow | 285-169 | 25

Three-phase set; with 95 mm² high-current terminal blocks

285-188 | 1

Power tap; for 95 mm² high-current terminal blocks

285-407 | 5

T-wrench with a partially insulated shaft

285-172 | 1

Marking strip; plain; 11 mm wide; 50 m reel

white | 2009-110 | 1

WMB marking card; white; 10 strips with 10 markers/card; for 5 … 17.5 mm terminal block width

plain | 793-501 | 5

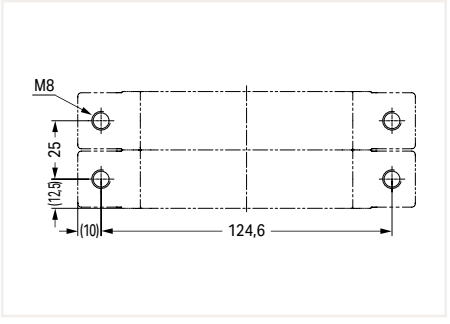
WMB marking card; white; 10 strips with 10 markers/card; 5 … 5.2 mm stretchable

plain | 793-5501 | 5

Marker carrier; for POWER CAGE CLAMP 35/50/95 mm²; 10.4 mm wide

gray | 285-442 | 25

Align and snap high-current, through terminal blocks together.



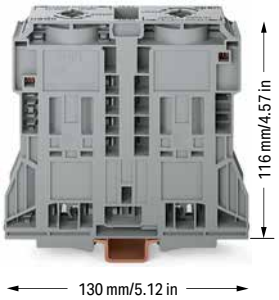
Dimensions (in mm):
Drill hole separation distance

POWER CAGE CLAMP®

High-Current Through and Ground Conductor Terminal Block
185 mm²; 285 Series

4

Technical Data	
50 … 185 mm² ❶	1/0 AWG … 350 kcmil
1000 VAC/DC/1500 VDC/12 kV/3 ❸	
I_N 353 A	
Terminal block width: 32 mm / 1.26 inch	
45 … 47 mm / 1.77 … 1.85 inch	



2-conductor through terminal block; only for DIN 35 x 15 rail

Color	Item No.	Pack. Unit
gray	285-1185	5
blue	285-1184	5
light gray	285-1189 ❺	5
dark gray/yellow	285-1181	5

2-conductor ground terminal block; only suitable for DIN 35 x 15 rail; 2.3 mm thick; copper

green-yellow	285-1187	5
green-yellow	285-1187/999-950 ❺	5

Technical Data	
0.2 … 10 (16) mm² ❷	24 … 8 AWG
1000 V/8 kV/3 ❹	
I_N 57 A	
Module width: 20 mm / 0.787 inch	
12 … 13 mm / 0.47 … 0.51 inch	

Power tap; for 185 mm² high-current terminal blocks

Color	Item No.	Pack. Unit
gray	285-1175	5

❶ 50 … 120 mm² / 1/0 AWG … 250 kcmil
for ground conductor terminal blocks (285-1187)

❷ Power tap; for 185 mm² high-current terminal blocks
Max. conductor size: 16 mm²

❸ 1000 VAC/DC
1500 VDC = rated voltage
12 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

❹ 1000 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

❺ Terminal blocks with an Ex mark are suitable for Ex e II applications.
50 … 185 mm² / 1/0 AWG … 350 kcmil
1000 V, 250 A
1 jumper, 236 A
50 … 120 mm² / 1/0 AWG … 250 kcmil
for ground conductor terminal blocks
(see Section 14)

Approvals and corresponding ratings, visit www.wago.com

Accessories; item-specific

Adjacent jumper; insulated; I_N 309 A for 1 jumper

gray	285-1171	25

Protective warning marker; with a black high-voltage symbol

yellow	285-1177	50 (25)

Protective warning marker; with a black high-voltage symbol

yellow	285-1176	25

Finger guard; touch-proof cover protects unused conductor entries and jumper slots

yellow	285-1178	25

Three-phase set; with 185 mm² high-current terminal blocks

	285-1169	1

Copper DIN-rail; per EN 60715; 35 x 15 mm; 2.3 mm thick; 2 m long

unslotted	210-198	10

Screwless end stop; for DIN-35 rail; 14 mm wide

gray	249-197	10

T-wrench with a partially insulated shaft

	285-172	1

Accessories; item-specific

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks

yellow	284-415	50 (25)

WMB marking card; white; 10 strips with 10 markers/card; for 5 … 17.5 mm terminal block width

plain	793-501	5

WMB marking card; white; 10 strips with 10 markers/card; 5 … 5.2 mm stretchable

plain	793-5501	5

Tapping directly into the power supply.

Accessories; for high-current terminal blocks

Appropriate marking systems:
WMB/WMB Inline/Marking strips

Marking strip; plain; 11 mm wide; 50 m reel

white	2009-110	1

WMB marking card; white; 10 strips with 10 markers/card; for 5 … 17.5 mm terminal block width

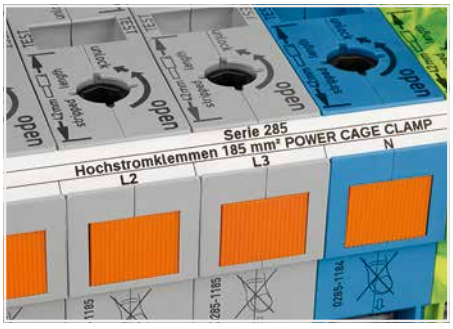
plain	793-501	5

WMB marking card; white; 10 strips with 10 markers/card; 5 … 5.2 mm stretchable

plain	793-5501	5

Marker carrier; for POWER CAGE CLAMP 35/50/95 mm²; 10.4 mm wide

gray	285-442	25



In addition to WMB markers, marking strips can be directly applied to 185 mm² (350 kcmil) high-current terminal blocks.

POWER CAGE CLAMP®

High-Current Through Terminal Block; with Mounting Flanges
185 mm²; 285 Series

Technical Data	
50 … 185 mm²	1/0 AWG … 350 kcmil
1000 VAC/DC / 1500 VDC / 12 kV / 3 ❶	
I_N 353 A	
Terminal block width: 32 mm / 1.26 inch	
45 … 47 mm / 1.77 … 1.85 inch	

2-conductor through terminal block; with mounting flanges		
Color	Item No.	Pack. Unit
gray	285-1161	4
blue	285-1164	4
light gray	285-1163 ❷	4

Technical Data	
50 … 185 mm²	1/0 AWG … 350 kcmil
1000 VAC/DC / 1500 VDC / 12 kV / 3 ❶	
I_N 353 A	
Terminal block width: 32 mm / 1.26 inch	
45 … 47 mm / 1.77 … 1.85 inch	

2-conductor through terminal block; with mounting flanges		
Color	Item No.	Pack. Unit
dark gray/yellow	285-1167	4
dark gray/yellow	285-1167/999-950 ❷	4

❶ 1000 VAC/DC
1500 VDC = rated voltage
12 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

❷ Terminal blocks with an Ex mark are suitable for Ex e II applications.
50 … 185 mm² / 1/0 AWG … 350 kcmil
1000 V, 250 A
1 jumper, 236 A
(see Section 14)

Approvals and corresponding ratings, visit www.wago.com

4

Optionally, insert block-to-block connector (285-1179) into housing slot.

Accessories; for high-current terminal blocks

Appropriate marking systems: WMB/WMB Inline/Marking strips

Adjacent jumper; insulated; I_N 309 A for 1 jumper

gray | 285-1171 | 25

Block-to-block connector; for 185 mm² high-current terminal blocks

orange | 285-1179 | 50 (25)

Protective warning marker; with a black high-voltage symbol

yellow | 285-1177 | 50 (25)

Protective warning marker; with a black high-voltage symbol

yellow | 285-1176 | 25

Finger guard; touch-proof cover protects unused conductor entries and jumper slots

yellow | 285-1178 | 25

Three-phase set; with 185 mm² high-current terminal blocks

285-1165 | 1

Power tap; for 185 mm² high-current terminal blocks

285-1175 | 5

T-wrench with a partially insulated shaft

285-172 | 1

Marking strip; plain; 11 mm wide; 50 m reel

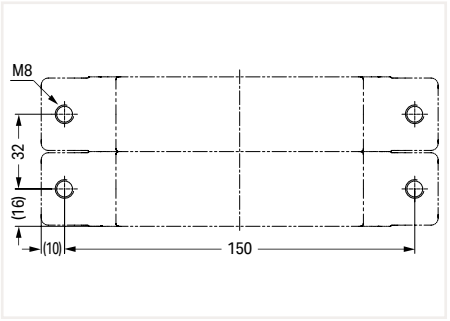
white | 2009-110 | 1

WMB marking card; white; 10 strips with 10 markers/card; for 5 … 17.5 mm terminal block width

plain | 793-501 | 5

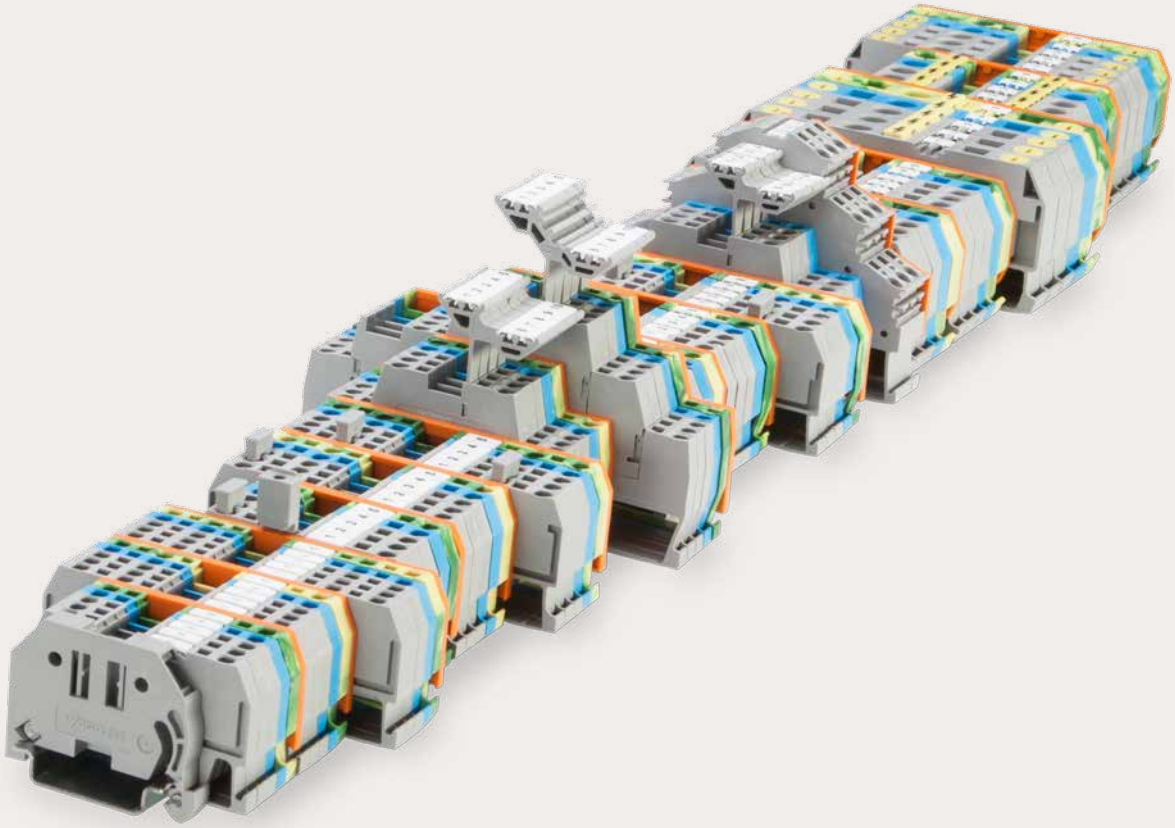
WMB marking card; white; 10 strips with 10 markers/card; 5 … 5.2 mm stretchable

plain | 793-5501 | 5



Dimensions (in mm):
Drill hole separation distance

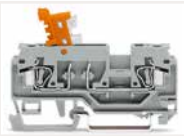
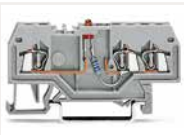
Secure the terminal block to a mounting plate using two M8 cylinder-head screws and appropriate washers.



WAGO Rail-Mount Terminal Blocks Classic

CAGE CLAMP®

WAGO Rail-Mount Terminal Blocks Classic
WAGO Installation Rail-Mount Terminal Blocks TOPJOB® Classic
Front-Entry Wiring

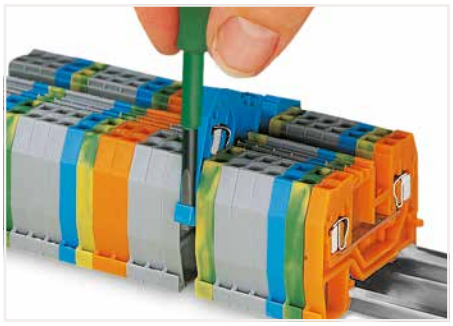
			Page
	Through/Ground Conductor/Shield Conductor and Ex Terminal Blocks 0.08 … 35 mm² (28 … 2 AWG) **Distribution Terminal Blocks** 10 mm² (8 AWG) / 35 mm² (2 AWG)	279 … 285/880 Series 284 Series	234
	Multilevel Rail-Mount Terminal Blocks 1.5/2.5/4 mm² (16/12 AWG)	279/280/281 Series	248
	TOPJOB® Classic **Through/Ground Conductor/Shield Conductor and Ex Terminal Blocks** 0.08 … 35 mm² (28 … 2 AWG)	780 … 785 Series	267
	**Disconnect/Test Terminal Blocks** 0.08 … 4 mm² (28 … 12 AWG) and 0.2 … 6 mm² (24 … 10 AWG)	280/281/282 Series	276
	Disconnect/Ground Conductor Disconnect and Fuse Terminal Blocks 0.2 … 6 mm² (24 … 10 AWG)	282 Series	292
	Fused Disconnect Terminal Blocks with a Pivoting Fuse Holder 0.08 … 4 mm² (28 … 12 AWG)	281 Series	298
	Fuse Plugs on Carrier Terminal Blocks	281/280 Series	302
	Sensor and Actuator Terminal Blocks 0.08 … 2.5 mm² (28 … 12 AWG)	280 Series	312
	**Diode and LED Terminal Blocks** 0.08 … 4 mm² (28 … 12 AWG)	279/280/281 Series	328
	Multilevel Diode and LED Terminal Blocks 0.08 … 4 mm² (28 … 12 AWG)	280/281 Series	334
	Diode and LED Modules	280 Series	338
	Accessories for Rail-Mount Terminal Blocks		342

5

Rail-Mount Terminal Blocks Classic
279 … 285 and 880 Series
Description and Installation

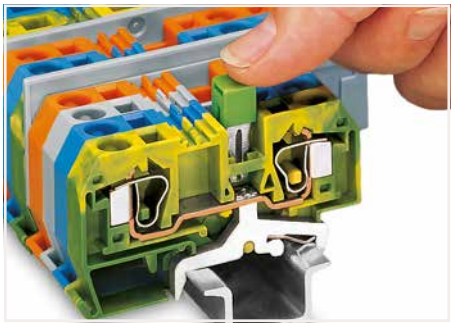
By snapping a ground conductor terminal block onto the DIN-rail, a direct electrical connection is automatically made to the rail.

Quick assembly keys prevent reverse mounting.

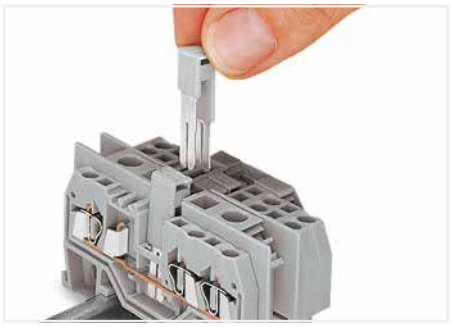


Removing a terminal block from the assembly.

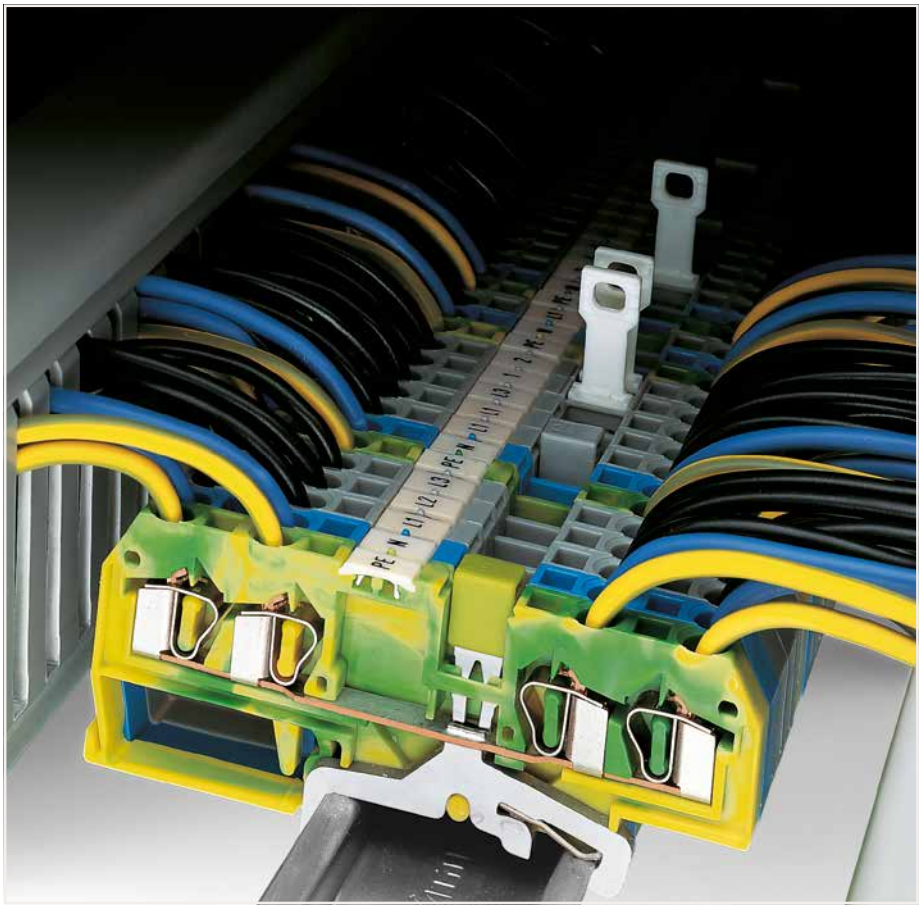
5



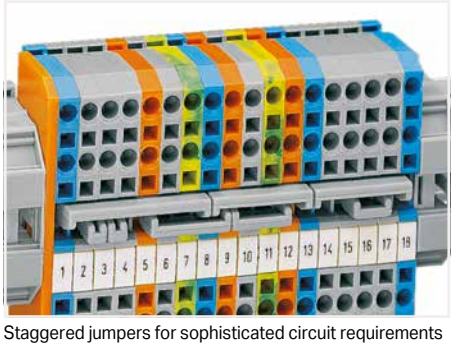
Commoning ground conductor terminal blocks with through terminal blocks is possible in one direction only (via rear side of terminal block) using adjacent jumpers. Recommends using yellow-green adjacent jumpers in addition to the required marking of these blocks.



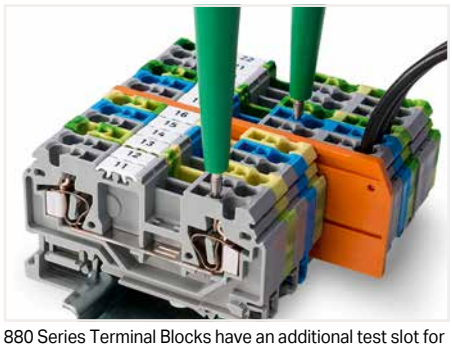
Commoning terminal blocks of different sizes via step-down jumpers.



Steel DIN-rails are not suited for PEN (ground and N-conductor) applications per EN 60947-7-2 (VDE 0611, Part 3).



Staggered jumpers for sophisticated circuit requirements – push jumpers down until fully inserted.



880 Series Terminal Blocks have an additional test slot for the 2-pole voltage tester.

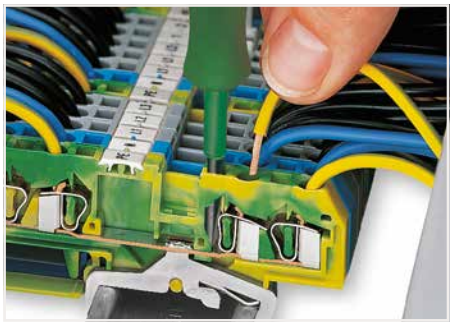
Protective warning markers inserted into the operating slots

CAGE CLAMP® terminates the following copper conductors:
solid

stranded

fine-stranded, also with tinned single strands

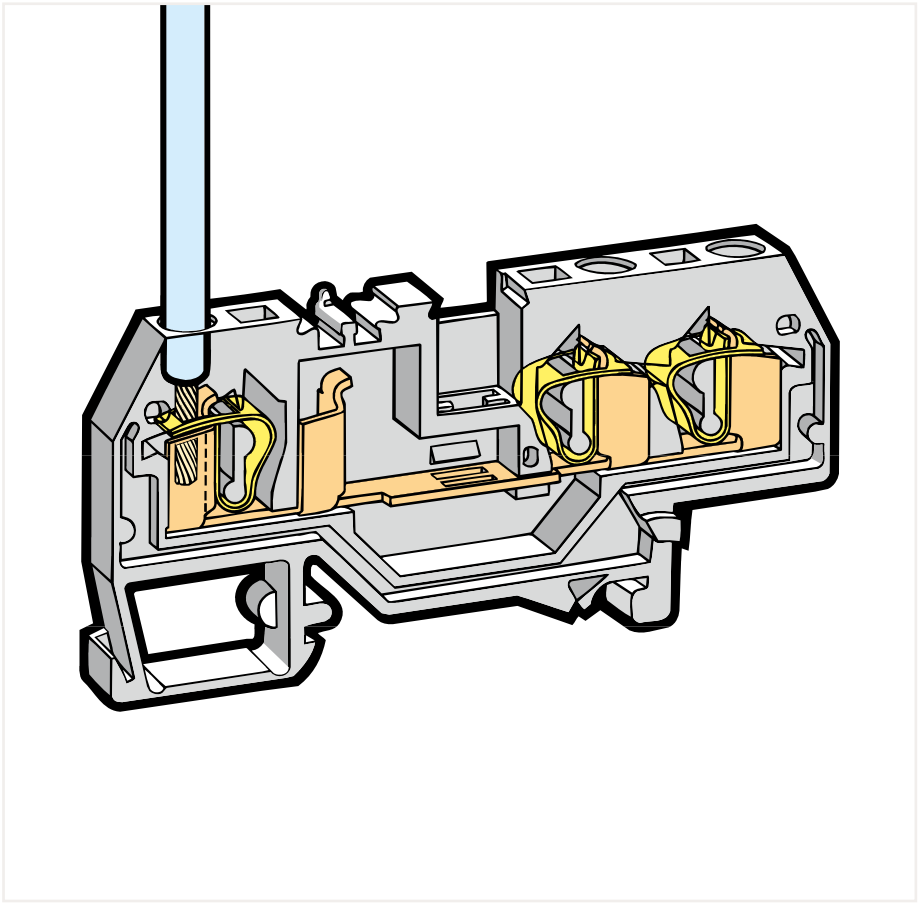
For aluminum conductors, see notes in Section 14. With ferruled conductors, it is necessary to use a terminal block one size larger than the conductor's nominal cross section.



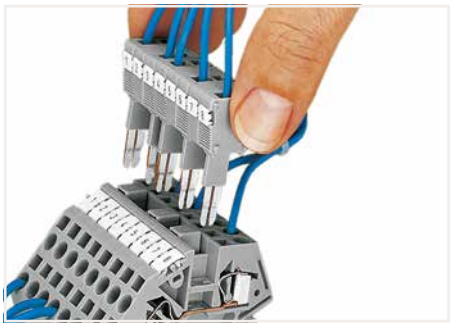
CAGE CLAMP® connection
Inserting a conductor.

CAGE CLAMP® connection
Inserting a conductor.
With ferruled conductors, it is necessary to use a terminal block one size larger than the conductor's nominal cross section.

Testing with a test plug.
(picture shows a test plug fitted with CAGE CLAMP®)

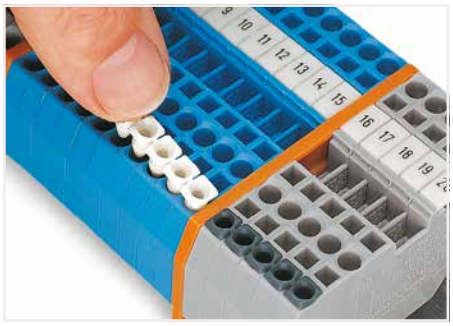


L-type test plug modules fitted with CAGE CLAMP®

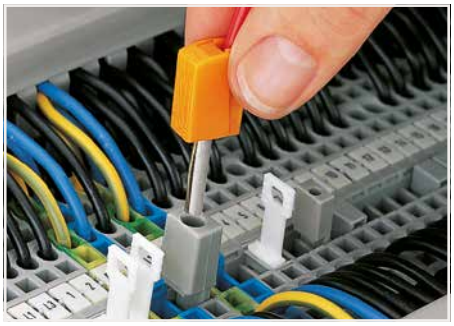


B-type test plug modules fitted with CAGE CLAMP®

Labeling via WMB Multi Marking System.



Inserting insulation stops.



Testing with a test plug.
(picture shows 209-170 Test Plug Adapter)

fine-stranded,
tip-bonded

fine-stranded,
with ferrule
(gastight crimped)

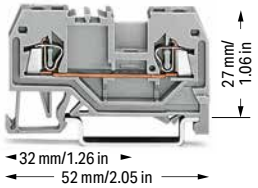
fine-stranded,
with pin terminal
(gastight crimped)

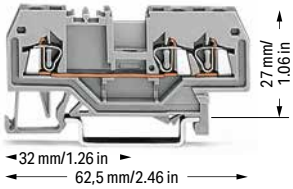
Through/Ground Conductor/Shield Conductor/Ex and Double-Potential Terminal Block
1.5 mm²; 279 Series

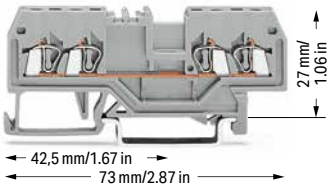
Technical Data	
0.08 … 1.5 mm²	28 … 16 AWG
800 V/8 kV/3 ❶	600 V, 10 A
I_N 18 A	600 V, 10 A
Terminal block width: 4 mm / 0.157 inch	
8 … 9 mm / 0.31 … 0.35 inch	

Technical Data	
0.08 … 1.5 mm²	28 … 16 AWG
800 V/8 kV/3 ❶	600 V, 10 A
I_N 18 A	600 V, 10 A
Terminal block width: 4 mm / 0.157 inch	
8 … 9 mm / 0.31 … 0.35 inch	

Technical Data	
0.08 … 1.5 mm²	28 … 16 AWG
800 V/8 kV/3 ❶	600 V, 10 A
I_N 18 A	600 V, 10 A
Terminal block width: 4 mm / 0.157 inch	
8 … 9 mm / 0.31 … 0.35 inch	







5

2-conductor through terminal block

Color	Item No.	Pack. Unit
gray	279-901	100
blue	279-904 ❷	100
orange	279-902	100
red	279-903	100
black	279-905	100
yellow	279-906	100
light gray	279-992 ❸	100

2-conductor ground terminal block

green-yellow	279-907	100
green-yellow	279-907/999-950 ❸	100

Other terminal blocks with the same profile:		
Diode	279-915/281-410	Page 328

Accessories; item-specific

End and intermediate plate; 2 mm thick

orange	279-328	100 (25)
gray	279-325	100 (25)
light gray	279-330	100 (25)

Separator; oversized; 2 mm thick

orange	279-329	100 (25)
gray	279-326	100 (25)
light gray	279-331	100 (25)

Ex e/Ex i separator; orange; 3 mm thick

90 mm	209-190	50 (25)
120 mm	209-191	50 (25)

3-conductor through terminal block

Color	Item No.	Pack. Unit
gray	279-681	100
blue	279-684 ❷	100
orange	279-682	100
red	279-683	100
black	279-685	100
yellow	279-686	100
light gray	279-993 ❸	100

3-conductor ground terminal block

green-yellow	279-687	100
green-yellow	279-687/999-950 ❸	100

Other terminal blocks with the same profile:		
Diode	279-673/281-410	Page 328
LED	279-674/281-434	Page 328

Accessories; item-specific

End and intermediate plate; 2 mm thick

orange	279-339	100 (25)
gray	279-308	100 (25)
light gray	279-341	100 (25)

Separator; oversized; 2 mm thick

orange	279-340	100 (25)
gray	279-309	100 (25)
light gray	279-342	100 (25)

Ex e/Ex i separator; orange; 3 mm thick

120 mm	209-191	50 (25)

4-conductor through terminal block

Color	Item No.	Pack. Unit
gray	279-831	100
blue	279-834 ❷	100
orange	279-832	100
red	279-833	100
black	279-835	100
yellow	279-836	100
light gray	279-994 ❸	100

4-conductor ground terminal block

green-yellow	279-837	100
green-yellow	279-837/999-950 ❸	100

4-conductor shield terminal block

white	279-838	100

Other terminal blocks with the same profile:		
Diode	279-815/281-410	Page 328
LED	279-809/281-434	Page 328
Double-potential	279-826	Page 235

Accessories; item-specific

End and intermediate plate; 2 mm thick

orange	279-346	100 (25)
gray	279-344	100 (25)
light gray	279-348	100 (25)

Separator; oversized; 2 mm thick

orange	279-347	100 (25)
gray	279-345	100 (25)
light gray	279-349	100 (25)

Ex e/Ex i separator; orange; 3 mm thick

120 mm	209-191	50 (25)

Step-down cover plate; 1 mm thick

gray	284-336	100 (25)
orange	284-346	100 (25)

Accessories; 279 Series

Appropriate marking systems: WMB/WMB Inline/WFB

Insulation stop; 0.08 … 0.2 mm² "s" (0.14 mm² "f-st"); 5 pcs/strip

white	279-470	200 (25)

Insulation stop; 0.25 mm²; 5 pcs/strip

dark gray	279-471	200 (25)

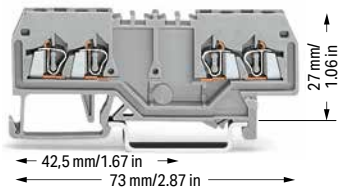
Adjacent jumper; insulated; I_N 15 A

gray	279-402	200 (25)
yellow-green	279-422	200 (25)

Alternate jumper; insulated; I_N 15 A

gray	279-409	100 (25)

Technical Data	
0.08 … 1.5 mm²	28 … 16 AWG
800 V/8 kV/3 ❶	600 V, 10 A
I_N 18 A	600 V, 10 A
Terminal block width: 4 mm / 0.157 inch	
8 … 9 mm / 0.31 … 0.35 inch	



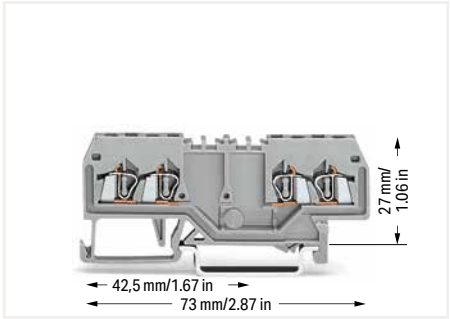
❶ 800 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

❷ Terminal blocks with a blue insulated housing are suitable for Ex i applications.

❸ Terminal blocks with an Ex mark are suitable for Ex e II applications.
0.2 … 1.5 mm² / 24 … 16 AWG
550 V; 15 A
(see Section 14)

Please observe the application notes:
Insulation stop, page 346
Push-in type wire jumper, page 349
Step-down jumper, page 250
Comb-style jumper bar, page 347
Marking, from page 588

Approvals and corresponding ratings, visit www.wago.com



Notice: These double-potential terminal blocks cannot be commoned via adjacent jumpers!
Front-entry double-potential terminal blocks are space savers.
Two independent feedthrough circuits are placed in one insulated housing on one level in just 4 mm. This achieves a width of just 2 mm versus standard through terminal blocks.
Input and output of a circuit are placed on the same side of the terminal block. Both circuits can be individually marked according to input and output.

For technical data and accessories, see www.wago.com

5

Double-potential terminal block; with double, center marking level

Color	Item No.	Pack. Unit
gray	279-826	100
light gray	279-995 ❸	100

Accessories; 279 Series

Appropriate marking systems:
WMB/WMB Inline/WFB

Push-in type wire jumper; insulated; 0.75 mm² conductor cross section; I_N 9 A

L = 60 mm	249-125	100 (10)
L = 110 mm	249-126	100 (10)
L = 250 mm	249-127	100 (10)

Step-down jumper; insulated; commons 10/6 mm² (8/10 AWG) down to 4/2.5/1.5 mm² (12/14/16 AWG); I_N 15 A

gray	284-414	50 (25)

Cover plate; 1 mm thick; for 2-, 3- and 4-conductor terminal blocks

gray	284-334	100 (25)
orange	284-344	100 (25)

Comb-style jumper bar; insulated; I_N = I_N of terminal block

2-way	279-482	200 (25)
3-way	279-483	200 (25)

Comb-style jumper bar; insulated; I_N = I_N of terminal block

10-way	279-490	50 (25)

Alternate comb-style jumper bar; insulated; I_N = I_N of terminal block

2-way	279-492	200 (25)

Operating tool; insulated

2-way	279-432	1
3-way	279-433	1

Operating tool; insulated

10-way	279-440	1

Test plug adapter; 8.3 mm wide; for 4 mm Ø test plug; for 1.5 … 10 mm² terminal blocks

gray	209-170	50 (25)

Test plug adapter; 5 mm wide; for 210-137 Test Plug (2.3 mm Ø); for 1.5 … 4 mm² terminal blocks

gray	280-404	100 (25)

Marking directly on the terminal block via WMB markers.

Terminal block marking with double marker carriers (209-128)
Terminal blocks with side marking
(see online catalog at www.wago.com)

Accessories; item-specific

End and intermediate plate; 2 mm thick

orange	279-346	100 (25)
gray	279-344	100 (25)
light gray	279-348	100 (25)

Separator; oversized; 2 mm thick

orange	279-347	100 (25)
gray	279-345	100 (25)
light gray	279-349	100 (25)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks

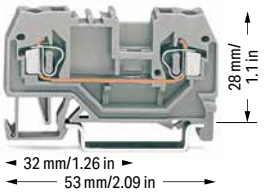
yellow	279-415	100 (25)

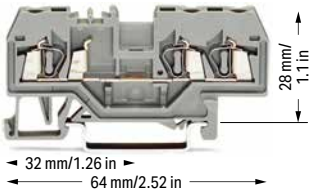
Through/Ground Conductor/Shield Conductor/Ex and Double-Potential Terminal Block
2.5 mm²; 280 Series

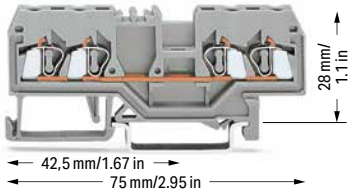
Technical Data	
0.08 … 2.5 mm²	28 … 12 AWG*
800 V/8 kV/3 ❶	600 V, 20 A
I_N 24 A	600 V, 25 A
Terminal block width: 5 mm / 0.197 inch	
8 … 9 mm / 0.31 … 0.35 inch	

Technical Data	
0.08 … 2.5 mm²	28 … 12 AWG*
800 V/8 kV/3 ❶	600 V, 20 A
I_N 24 A	600 V, 15 A
Terminal block width: 5 mm / 0.197 inch	
8 … 9 mm / 0.31 … 0.35 inch	

Technical Data	
0.08 … 2.5 mm²	28 … 12 AWG*
800 V/8 kV/3 ❶	600 V, 20 A
I_N 20 A	600 V, 25 A
Terminal block width: 5 mm / 0.197 inch	
8 … 9 mm / 0.31 … 0.35 inch	







5

2-conductor through terminal block

Color	Item No.	Pack. Unit
gray	280-901	100
blue	280-904 ❷	100
orange	280-902	100
red	280-903	100
black	280-905	100
yellow	280-906	100
light gray	280-992 ❸	100

2-conductor ground terminal block

green-yellow	280-907	100
green-yellow	280-907/999-950 ❸	100

Other terminal blocks with the same profile:

Diode	280-915/281-410	Page 330
Disconnect	280-912	Page 278
Carrier	280-916	Page 304

Accessories; item-specific

End and intermediate plate; 2.5 mm thick

orange	280-309	100 (25)
gray	280-308	100 (25)
light gray	280-356	100 (25)

Separator; oversized; 2 mm thick

orange	280-311	100 (25)
gray	280-310	100 (25)
light gray	280-357	100 (25)

Ex e/Ex i separator; orange; 3 mm thick

90 mm	209-190	50 (25)
120 mm	209-191	50 (25)

Spacer with same profile; for 2-conductor terminal blocks of horizontal type; 5 mm thick

orange	280-902/056-000	100 (25)

3-conductor through terminal block

Color	Item No.	Pack. Unit
gray	280-681	100
blue	280-684 ❷	100
orange	280-650	100
red	280-653	100
black	280-671	100
yellow	280-672	100
light gray	280-993 ❸	100

3-conductor ground terminal block

green-yellow	280-687	100
green-yellow	280-687/999-950 ❸	100

Other terminal blocks with the same profile:

Diode	280-673/281-410	Page 330
Disconnect	280-683	Page 278
Carrier	280-610	Page 304

Accessories; item-specific

End and intermediate plate; 2.5 mm thick

orange	280-326	100 (25)
gray	280-324	100 (25)
light gray	280-358	100 (25)

Separator; oversized; 2 mm thick

orange	280-346	100 (25)
gray	280-344	100 (25)
light gray	280-359	100 (25)

Ex e/Ex i separator; orange; 3 mm thick

120 mm	209-191	50 (25)

Spacer with same profile; for 3-conductor terminal blocks of horizontal type; 5 mm thick

orange	280-650/056-000	100 (25)

4-conductor through terminal block

Color	Item No.	Pack. Unit
gray	280-833	100
blue	280-834 ❷	100
orange	280-835	100
red	280-830	100
black	280-831	100
yellow	280-832	100
light gray	280-994 ❸	100

4-conductor ground terminal block

green-yellow	280-837	100
green-yellow	280-837/999-950 ❸	100

4-conductor shield terminal block

white	280-838	100

Other terminal blocks with the same profile:

Diode	280-815/281-410	Page 330
LED	280-809/281-434	Page 330
Disconnect	280-836	Page 278
Disc./test	280-829	Page 278
Carrier	280-816	Page 304
Double-potential	280-826	Page 237

Accessories; item-specific

End and intermediate plate; 2.5 mm thick

orange	280-315	100 (25)
gray	280-314	100 (25)
light gray	280-352	100 (25)

Separator; oversized; 2 mm thick

orange	280-335	100 (25)
gray	280-334	100 (25)
light gray	280-353	100 (25)

Ex e/Ex i separator; orange; 3 mm thick

120 mm	209-191	50 (25)

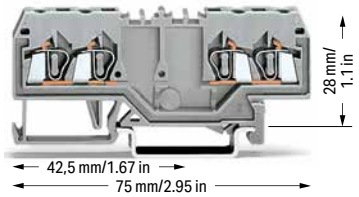
Spacer with same profile; for 4-conductor terminal blocks of horizontal type; 5 mm thick

orange	280-835/056-000	100 (25)

Step-down cover plate; 1 mm thick

gray	284-336	100 (25)
orange	284-346	100 (25)

Technical Data	
0.08 … 2.5 mm²	28 … 12 AWG*
800 V/8 kV/3 ❶	600 V, 20 A
I_N 24 A	600 V, 25 A
Terminal block width: 5 mm / 0.197 inch	
8 … 9 mm / 0.31 … 0.35 inch	



Double-potential terminal block; with double, center marking level

Color	Item No.	Pack. Unit
gray	280-826	100
light gray	280-995 ❸	100

Notice: These double-potential terminal blocks cannot be commoned via adjacent jumpers!
Front-entry double-potential terminal blocks are space savers.
Two independent feedthrough circuits are placed in one insulated housing on one level in just 5 mm. This achieves a width of just 2.5 mm versus standard through terminal blocks.
Input and output of a circuit are placed on the same side of the terminal block. Both circuits can be individually marked according to input and output.

For technical data and accessories,
see www.wago.com

Accessories; item-specific

End and intermediate plate; 2.5 mm thick

orange	280-315	100 (25)
gray	280-314	100 (25)
light gray	280-352	100 (25)

Separator; oversized; 2 mm thick

orange	280-335	100 (25)
gray	280-334	100 (25)
light gray	280-353	100 (25)

* 12 AWG: THHN, THWN

❶ 800 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

❷ Terminal blocks with a blue insulated housing are suitable for Ex i applications.

❸ Terminal blocks with an Ex mark are suitable for Ex e II applications.
0.2 … 2.5 mm²/24 … 12 AWG*
550 V
23 A, for 2-conductor terminal blocks
22 A, for 3-conductor terminal blocks
20 A, for 4-conductor terminal blocks
(see Section 14)
Using staggered jumpers reduces the maximum rated voltage to 275 V.

Please observe the application notes:
Insulation stop, page 346
Jumpers, from page 348
Step-down jumper, page 250
Comb-style jumper bar, page 347
Testing accessories, from page 342
Marking, from page 588

Approvals and corresponding ratings, visit www.wago.com

Accessories; 280 Series

Appropriate marking systems:
WMB/WMB Inline/WFB

Insulation stop; 0.08 … 0.2 mm² "s" (0.14 mm² "f-st"); 5 pcs/strip

white	280-470	200 (25)

Insulation stop; 0.25 … 0.5 mm²; 5 pcs/strip

light gray	280-471	200 (25)

Insulation stop; 0.75 … 1 mm²; 5 pcs/strip

dark gray	280-472	200 (25)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks

yellow	280-415	100 (25)

Adjacent jumper; insulated; I_N = I_N terminal block

gray	280-402	200 (25)
yellow-green	280-422	200 (25)

Alternate jumper, insulated; I_N = I_N terminal block

gray	280-409	100 (25)

Staggered jumper; insulated; 5 mm wide; I_N 24 A

1 to 2	780-452	100 (25)
1 to 3	780-453	100 (25)
1 to 4	780-454	100 (25)
1 to 5	780-455	50 (25)
1 to 6	780-456	50 (25)
1 to 7	780-457	50 (25)
1 to 8	780-458	50 (25)

Push-in type wire jumper; insulated; 0.75 mm² conductor cross section; I_N 9 A

L = 60 mm	249-125	100 (10)
L = 110 mm	249-126	100 (10)
L = 250 mm	249-127	100 (10)

Accessories; 280 Series

Appropriate marking systems:
WMB/WMB Inline/WFB

Step-down jumper; insulated; commons 10/6 mm² (8/10 AWG) down to 4/2.5/1.5 mm² (12/14/16 AWG); I_N 15 A

gray	284-414	50 (25)

Cover plate; 1 mm thick; for 2-, 3- and 4-conductor terminal blocks

gray	284-334	100 (25)
orange	284-344	100 (25)

Comb-style jumper bar; insulated; I_N = I_N of terminal block

2-way	280-482	200 (25)
3-way	280-483	200 (25)

Comb-style jumper bar; insulated; I_N = I_N of terminal block

10-way	280-490	50 (25)

Alternate comb-style jumper bar; insulated; I_N = I_N of terminal block

2-way	280-492	200 (25)

Operating tool; insulated

2-way	280-432	1
3-way	280-433	1

Operating tool; insulated

10-way	280-440	1

Test plug module; snaps together; 5 mm wide

gray	280-418	100 (25)

Spacer module; snaps together; 5 mm wide

gray	280-419	100 (25)

Test plug adapter; 8.3 mm wide; for 4 mm Ø test plug; for 1.5 … 10 mm² terminal blocks

gray	209-170	50 (25)

Banana plug; for 4 mm socket diameter; color mixed; 10 x orange, white, black, blue, yellow; max. 42 V

	215-111	50

Test plug adapter; 5 mm wide; for 210-137 Test Plug (2.3 mm Ø); for 1.5 … 4 mm² terminal blocks

gray	280-404	100 (25)

Test plug adapter; 6 mm wide; with CAGE CLAMP®; for 0.08 … 2.5 mm²

I_N 24 A	281-407	100 (25)

Test plug; with 500 mm cable; 2 mm Ø; max. 42 V

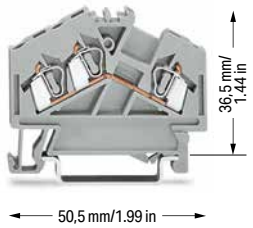
red	210-136	50

5

CAGE CLAMP®

Through/Ground Conductor/Shield Conductor and Ex Terminal Block
2.5 mm²; 280 Series

Technical Data	
0.08 … 2.5 mm²	28 … 12 AWG*
800 V/8 kV/3 ❶	600 V, 20 A
I_N 24 A	
Terminal block width: 5 mm / 0.197 inch	
8 … 9 mm / 0.31 … 0.35 inch	



5

3-conductor through terminal block

Color	Item No.	Pack. Unit
gray	280-641	100
blue	280-651 ❷	100
orange	280-654	100
light gray	280-998 ❸	100

3-conductor ground terminal block

green-yellow	280-637	100
green-yellow	280-637/999-950 ❸	100

3-conductor shield terminal block

white	280-640	100

Accessories; 280 Series

Appropriate marking systems:
WMB/WMB Inline/WFB

End and intermediate plate; 2.5 mm thick

orange	280-313	100 (25)
gray	280-312	100 (25)
light gray	280-354	100 (25)

Separator; oversized; 2 mm thick

orange	280-318	100 (25)
gray	280-348	100 (25)
light gray	280-355	100 (25)

Ex e/Ex i separator; orange; 3 mm thick

120 mm	209-191	50 (25)

Spacer with same profile; for 3- and 4-conductor terminal blocks (angled type); 5 mm thick

orange	280-654/056-000	100 (25)

Insulation stop; 0.08 … 0.2 mm² "s" (0.14 mm² "f-st"); 5 pcs/strip

white	280-470	200 (25)

Insulation stop; 0.25 … 0.5 mm²; 5 pcs/strip

light gray	280-471	200 (25)

Insulation stop; 0.75 … 1 mm²; 5 pcs/strip

dark gray	280-472	200 (25)

* 12 AWG: THHN, THWN

❶ 800 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

❷ Terminal blocks with a blue insulated housing are suitable for Ex i applications.

❸ Terminal blocks with an Ex mark are suitable for Ex e II applications.
0.2 … 2.5 mm² / 24 … 12 AWG*
550 V; 23 A
(see Section 14)
Using staggered jumpers reduces the maximum rated voltage to 275 V.

❹ Please observe the application notes:
Insulation stop, page 346
Jumpers, from page 348
Comb-style jumper bar, page 347
Testing accessories, from page 342
Marking, from page 588

Approvals and corresponding ratings, visit www.wago.com

Accessories; 280 Series

Appropriate marking systems:
WMB/WMB Inline/WFB

Adjacent jumper; insulated; I_N = I_N terminal block

gray	280-402	200 (25)
yellow-green	280-422	200 (25)

Alternate jumper, insulated; I_N = I_N terminal block

gray	280-409	100 (25)

Staggered jumper; insulated; 5 mm wide; I_N 24 A

1 to 2	780-452	100 (25)
1 to 3	780-453	100 (25)
1 to 4	780-454	100 (25)
1 to 5	780-455	50 (25)
1 to 6	780-456	50 (25)
1 to 7	780-457	50 (25)
1 to 8	780-458	50 (25)

Push-in type wire jumper; insulated; 0.75 mm² conductor cross section; I_N 9 A

L = 60 mm	249-125	100 (10)
L = 110 mm	249-126	100 (10)
L = 250 mm	249-127	100 (10)

Comb-style jumper bar; insulated; I_N = I_N of terminal block

2-way	280-482	200 (25)
3-way	280-483	200 (25)

Comb-style jumper bar; insulated; I_N = I_N of terminal block

10-way	280-490	50 (25)

Alternate comb-style jumper bar; insulated; I_N = I_N of terminal block

2-way	280-492	200 (25)

Operating tool; insulated

2-way	280-432	1
3-way	280-433	1
10-way	280-440	1

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks

yellow	280-415	100 (25)

Accessories; 280 Series

Appropriate marking systems:
WMB/WMB Inline/WFB

Test plug module; snaps together; 5 mm wide

gray	280-418	100 (25)

Spacer module; snaps together; 5 mm wide

gray	280-419	100 (25)

Test plug adapter; 8.3 mm wide; for 4 mm Ø test plug; for 1.5 … 10 mm² terminal blocks

gray	209-170	50 (25)

Banana plug; for 4 mm socket diameter; color mixed; 10 x orange, white, black, blue, yellow; max. 42 V

	215-111	50

Test plug adapter; 5 mm wide; for 210-137 Test Plug (2.3 mm Ø); for 1.5 … 4 mm² terminal blocks

gray	280-404	100 (25)

Test plug adapter; 6 mm wide; with CAGE CLAMP®; for 0.08 … 2.5 mm²

I_N 24 A	281-407	100 (25)

Test plug; with 500 mm cable; 2 mm Ø; max. 42 V

red	210-136	50

Test plug; with 500 mm cable; 2.3 mm Ø; max. 42 V

yellow	210-137	50

WMB Inline, plain; 1,500 WMB markers (5 mm)/reel; 5 … 5.2 mm stretchable

white	2009-115	1

WMB marking card; white; 10 strips with 10 markers/card; stretchable 5 … 5.2 mm

plain	793-5501	5

WMB marking card; plain; 10 strips with 10 markers/card; stretchable 5 … 5.2 mm

yellow	793-5501/000-002	5
red	793-5501/000-005	5
blue	793-5501/000-006	5
gray	793-5501/000-007	5
orange	793-5501/000-012	5
light green	793-5501/000-017	5
green	793-5501/000-023	5
violet	793-5501/000-024	5

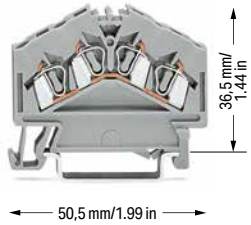
Screwless end stop; for DIN-35 rail; 6 mm wide

gray	249-116	100 (25)

CAGE CLAMP®

Through and Ex Terminal Block
2.5 mm²; 280 Series

Technical Data	
0.08 … 2.5 mm²	28 … 12 AWG*
800 V/8 kV/3 ❶	600 V, 20 A
I_N 24 A	600 V, 25 A
Terminal block width: 5 mm / 0.197 inch	
8 … 9 mm / 0.31 … 0.35 inch	



4-conductor through terminal block
Notice: These terminal blocks cannot be commoned using adjacent jumpers.

Color	Item No.	Pack. Unit
gray	280-646	100
blue	280-656 ❷	100
orange	280-946	100
light gray	280-996 ❸	100

Accessories; 280 Series

Appropriate marking systems:
WMB/WMB Inline/WFB

End and intermediate plate; 2.5 mm thick

orange	280-313	100 (25)
gray	280-312	100 (25)
light gray	280-354	100 (25)

Separator; oversized; 2 mm thick

orange	280-318	100 (25)
gray	280-348	100 (25)
light gray	280-355	100 (25)

Ex e/Ex i separator; orange; 3 mm thick

120 mm	209-191	50 (25)

Spacer with same profile; for 3- and 4-conductor terminal blocks (angled type); 5 mm thick

orange	280-654/056-000	100 (25)

Insulation stop; 0.08 … 0.2 mm² "s" (0.14 mm² "f-st"); 5 pcs/strip

white	280-470	200 (25)

Insulation stop; 0.25 … 0.5 mm²; 5 pcs/strip

light gray	280-471	200 (25)

Insulation stop; 0.75 … 1 mm²; 5 pcs/strip

dark gray	280-472	200 (25)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks

yellow	280-415	100 (25)

* 12 AWG: THHN, THWN

❶ 800 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

❷ Terminal blocks with a blue insulated housing are suitable for Ex i applications.

❸ Terminal blocks with an Ex mark are suitable for Ex e II applications.
0.2 … 2.5 mm² / 24 … 12 AWG*
550 V; 23 A
(see Section 14)

Please observe the application notes:
Insulation stop, page 346
Comb-style jumper bar, page 347
Testing accessories, from page 342
Marking, from page 588

Approvals and corresponding ratings, visit www.wago.com

Accessories; 280 Series

Appropriate marking systems:
WMB/WMB Inline/WFB

Comb-style jumper bar; insulated; I_N = I_N of terminal block

2-way	280-482	200 (25)
3-way	280-483	200 (25)

Comb-style jumper bar; insulated; I_N = I_N of terminal block

10-way	280-490	50 (25)

Alternate comb-style jumper bar; insulated; I_N = I_N of terminal block

2-way	280-492	200 (25)

Operating tool; insulated

2-way	280-432	1
3-way	280-433	1

Operating tool; insulated

10-way	280-440	1

Test plug module; snaps together; 5 mm wide

gray	249-141	100 (25)

WMB Inline, plain; 1,500 WMB markers (5 mm)/reel; 5 … 5.2 mm stretchable

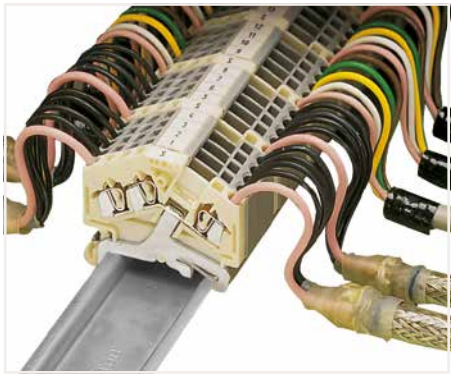
white	2009-115	1

WMB marking card; white; 10 strips with 10 markers/card; stretchable 5 … 5.2 mm

plain	793-5501	5

WMB marking card; plain; 10 strips with 10 markers/card; stretchable 5 … 5.2 mm

yellow	793-5501/000-002	5
red	793-5501/000-005	5
blue	793-5501/000-006	5
gray	793-5501/000-007	5
orange	793-5501/000-012	5
light green	793-5501/000-017	5
green	793-5501/000-023	5
violet	793-5501/000-024	5



Application example for shield conductor terminal blocks

Shielded control cables are becoming an increasingly common solution to external signal interference. Front-entry shield conductor terminal blocks are ideal for connecting braided cables. Like front-entry ground conductor terminal blocks, they are equipped with a grounding foot for direct electrical connection to the rail, however they differ significantly by their white insulated housing. Shield conductor terminal blocks for front-entry wiring can be directly mounted beside signal-conductor terminal blocks, providing excellent deflection of interfering signals.

5

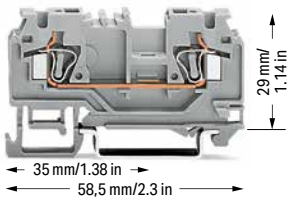
Through and Ground Conductor Terminal Block; Suited for Specialty 12 AWG Conductors with Ferrule (216-206); Terminal Block Width: 5 mm

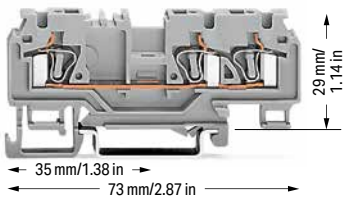
4 mm²; 880 Series

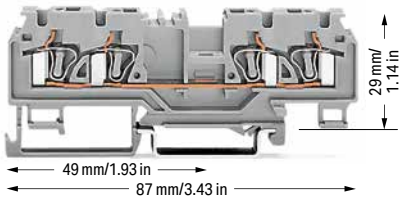
Technical Data	
0.08 … 4 mm²	28 … 12 AWG
800 V/8 kV/3 ❶	600 V, 20 A
I_N 25 A	
Terminal block width: 5 mm / 0.197 inch	
8 … 9 mm / 0.31 … 0.35 inch	

Technical Data	
0.08 … 4 mm²	28 … 12 AWG
800 V/8 kV/3 ❶	600 V, 20 A
I_N 25 A	
Terminal block width: 5 mm / 0.197 inch	
8 … 9 mm / 0.31 … 0.35 inch	

Technical Data	
0.08 … 4 mm²	28 … 12 AWG
800 V/8 kV/3 ❶	600 V, 20 A
I_N 20 A	
Terminal block width: 5 mm / 0.197 inch	
8 … 9 mm / 0.31 … 0.35 inch	







5

2-conductor through terminal block; no shield contact; with test slot for 2 and 2.3 mm Ø test plugs; for specialty conductors; 4.4 mm insulation diameter (max.)

Color	Item No.	Pack. Unit
gray	880-901/999-940	100
blue	880-904/999-940 ❷	100
orange	880-902/999-940	100

2-conductor through terminal block; with shield contact

2-conductor ground terminal block

green-yellow	880-907/999-940	100

3-conductor through terminal block; no shield contact; with test slot for 2 and 2.3 mm Ø test plugs; for specialty conductors; 4.4 mm insulation diameter (max.)

Color	Item No.	Pack. Unit
gray	880-681/999-940	100
blue	880-684/999-940 ❷	100
orange	880-682/999-940	100

3-conductor through terminal block; with shield contact

3-conductor ground terminal block

green-yellow	880-687/999-940	100

4-conductor through terminal block; no shield contact; with test slot for 2 and 2.3 mm Ø test plugs; for specialty conductors; 4.4 mm insulation diameter (max.)

Color	Item No.	Pack. Unit
gray	880-831/999-940	100
blue	880-834/999-940 ❷	100
orange	880-832/999-940	100

4-conductor through terminal block; with shield contact

4-conductor ground terminal block

green-yellow	880-837/999-940	100

Accessories; item-specific

End and intermediate plate; 2.5 mm thick

orange	880-328	100 (25)
gray	880-325	100 (25)

Separator; oversized; 2 mm thick

orange	880-329	100 (25)
gray	880-326	100 (25)

Accessories; item-specific

End and intermediate plate; 2.5 mm thick

orange	880-339	100 (25)
gray	880-308	100 (25)

Separator; oversized; 2 mm thick

orange	880-340	100 (25)
gray	880-309	100 (25)

Accessories; item-specific

End and intermediate plate; 2.5 mm thick

orange	880-346	100 (25)
gray	880-344	100 (25)

Separator; oversized; 2 mm thick

orange	880-347	100 (25)
gray	880-345	100 (25)

Accessories; 880 Series

Appropriate marking systems: WMB/WMB Inline/Mini-WSB/Mini-WSB Inline/WFB

Insulation stop; 0.08 … 0.2 mm² "s" (0.14 mm² "f-st"); 5 pcs/strip

white	280-470	200 (25)

Insulation stop; 0.25 … 0.5 mm²; 5 pcs/strip

light gray	280-471	200 (25)

Insulation stop; 0.75 … 1 mm²; 5 pcs/strip

dark gray	280-472	200 (25)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks

yellow	280-415	100 (25)

Adjacent jumper; insulated; I_N = I_N terminal block

gray	280-402	200 (25)
yellow-green	280-422	200 (25)

Alternate jumper, insulated; I_N = I_N terminal block

gray	280-409	100 (25)

Staggered jumper; insulated; 5 mm wide; I_N 24 A

1 to 2	780-452	100 (25)
1 to 3	780-453	100 (25)
1 to 4	780-454	100 (25)
1 to 5	780-455	50 (25)
1 to 6	780-456	50 (25)
1 to 7	780-457	50 (25)
1 to 8	780-458	50 (25)

Push-in type wire jumper; insulated; 0.75 mm² conductor cross section; I_N 9 A

L = 60 mm	249-125	100 (10)
L = 110 mm	249-126	100 (10)
L = 250 mm	249-127	100 (10)

Comb-style jumper bar; insulated; I_N = I_N of terminal block

2-way	280-482	200 (25)
3-way	280-483	200 (25)

Comb-style jumper bar; insulated; I_N = I_N of terminal block

10-way	280-490	50 (25)

Alternate comb-style jumper bar; insulated; I_N = I_N of terminal block

2-way	280-492	200 (25)

Operating tool; insulated

2-way	280-432	1
3-way	280-433	1

Operating tool; insulated

10-way	280-440	1

Test plug module; snaps together; 5 mm wide

gray	280-418	100 (25)

Spacer module; snaps together; 5 mm wide

gray	280-419	100 (25)

Test plug adapter; 8.3 mm wide; for 4 mm Ø test plug; for 1.5 … 10 mm² terminal blocks

gray	209-170	50 (25)

❶ 800 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree

with shield contact
400 V/6 kV/3
cULus 300 V/10 A
(see Section 14)

❷ Terminal blocks with a blue insulated housing are suitable for Ex i applications.

Please observe the application notes:
Insulation stop, page 346
Jumpers, from page 348
Comb-style jumper bar, page 347
Testing accessories, from page 342
Marking, from page 588

Approvals and corresponding ratings, visit www.wago.com

Accessories; 880 Series

Appropriate marking systems:
WMB/WMB Inline/Mini-WSB/Mini-WSB Inline/WFB

Banana plug; for 4 mm socket diameter; color mixed; 10 x orange, white, black, blue, yellow; max. 42 V

215-111	50	

Test plug adapter; 5 mm wide; for 210-137 Test Plug (2.3 mm Ø); for 1.5 … 4 mm² terminal blocks

gray	**280-404**	100 (25)

Test plug adapter; 6 mm wide; with CAGE CLAMP®; for 0.08 … 2.5 mm²

I_N 24 A	**281-407**	100 (25)

Test plug; with 500 mm cable; 2 mm Ø; max. 42 V

red	**210-136**	50

Test plug; with 500 mm cable; 2.3 mm Ø; max. 42 V

yellow	**210-137**	50

WMB Inline, plain; 1,500 WMB markers (5 mm)/reel; 5 … 5.2 mm stretchable

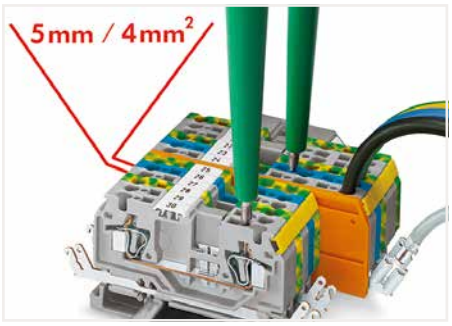
white	**2009-115**	1

WMB marking card; white; 10 strips with 10 markers/card; stretchable 5 … 5.2 mm

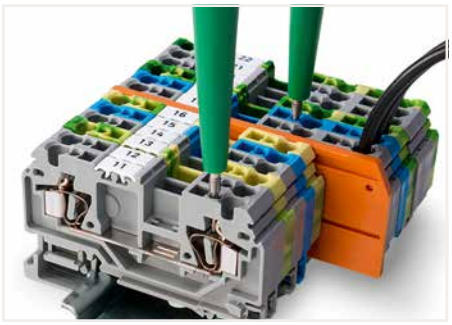
plain	**793-5501**	5

WMB marking card; plain; 10 strips with 10 markers/card; stretchable 5 … 5.2 mm

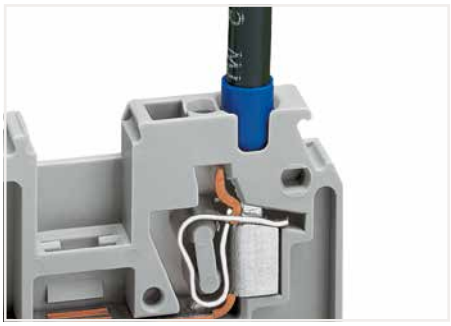
yellow	**793-5501/000-002**	5
red	**793-5501/000-005**	5
blue	**793-5501/000-006**	5
gray	**793-5501/000-007**	5
orange	**793-5501/000-012**	5
light green	**793-5501/000-017**	5
green	**793-5501/000-023**	5
violet	**793-5501/000-024**	5



Features:
- 2-, 3- and 4-conductor terminal blocks, just 5 mm wide
- Conductor cross sections up to 4 mm² (per VDE 0281) or 12 AWG with ferrule (Item No. 216-206)
  2.5 mm² rubber-insulated conductors, with outer diameter up to 4.4 mm
- Shield contact, solder/quick-connect contact 6.3 (2 x 2.8) mm
- Test plug, red, 2 mm Ø
- Test plug, yellow, 2.3 mm Ø
- WMB markers
- Mini-WSB markers, on both sides
- Commoning with WAGO jumper systems



880 Series Terminal Blocks have an additional test slot for the 2-pole voltage tester.



Using a 12 AWG conductor with ferrule.
Item No. 216-206

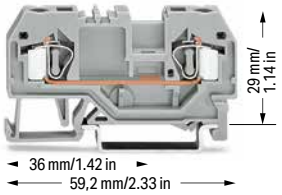
5

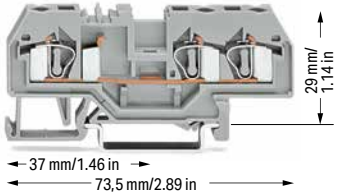
Through/Ground Conductor/Shield Conductor and Ex Terminal Block
4 mm²; 281 Series

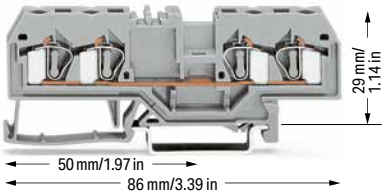
Technical Data	
0.08 … 4 mm²	28 … 12 AWG
800 V/8 kV/3 ❶	600 V, 20 A
I_N 32 A	600 V, 25 A
Terminal block width: 6 mm / 0.236 inch	
9 … 10 mm / 0.35 … 0.39 inch	

Technical Data	
0.08 … 4 mm²	28 … 12 AWG
800 V/8 kV/3 ❶	600 V, 20 A
I_N 32 A	600 V, 25 A
Terminal block width: 6 mm / 0.236 inch	
9 … 10 mm / 0.35 … 0.39 inch	

Technical Data	
0.08 … 4 mm²	28 … 12 AWG
800 V/8 kV/3 ❶	600 V, 20 A
I_N 26 A	600 V, 25 A
Terminal block width: 6 mm / 0.236 inch	
9 … 10 mm / 0.35 … 0.39 inch	







5

2-conductor through terminal block

Color	Item No.	Pack. Unit
gray	281-901	50
blue	281-904 ❷	50
orange	281-902	50
red	281-903	50
black	281-905	50
yellow	281-906	50
light gray	281-992 ❸	50

3-conductor through terminal block

Color	Item No.	Pack. Unit
gray	281-681	50
blue	281-684 ❷	50
orange	281-678	50
red	281-679	50
black	281-685	50
yellow	281-686	50
light gray	281-993 ❸	50

4-conductor through terminal block

Color	Item No.	Pack. Unit
gray	281-652	50
blue	281-654 ❷	50
orange	281-653	50
red	281-663	50
black	281-664	50
yellow	281-668	50
light gray	281-994 ❸	50

2-conductor ground terminal block

green-yellow	281-907	50
green-yellow	281-907/999-950 ❸	50

3-conductor ground terminal block

green-yellow	281-687	50
green-yellow	281-687/999-950 ❸	50

4-conductor ground terminal block

green-yellow	281-657	50
green-yellow	281-657/999-950 ❸	50

4-conductor shield terminal block

white	281-658	50

Other terminal blocks with the same profile:

Diode	281-915/281-410	Page 332
Disconnect	281-912	Page 280
Carrier	281-916	Page 248

Other terminal blocks with the same profile:

Diode	281-673/281-410	Page 332
Disconnect	281-683	Page 280
Carrier	281-610	Page 248

Other terminal blocks with the same profile:

Diode	281-665/281-410	Page 332
Disconnect	281-659	Page 280
Disc./test	281-666	Page 280
Carrier	281-656	Page 302

Accessories; item-specific

End and intermediate plate; 2.5 mm thick

orange	281-329	100 (25)
gray	281-328	100 (25)
light gray	281-349	100 (25)

Separator; oversized; 2 mm thick

orange	281-331	100 (25)
gray	281-330	100 (25)
light gray	281-350	100 (25)

Ex e/Ex i separator; orange; 3 mm thick

90 mm	209-190	50 (25)
120 mm	209-191	50 (25)

Accessories; item-specific

End and intermediate plate; 2.5 mm thick

orange	281-326	100 (25)
gray	281-324	100 (25)
light gray	281-355	100 (25)

Separator; oversized; 2 mm thick

orange	281-346	100 (25)
gray	281-344	100 (25)
light gray	281-356	100 (25)

Ex e/Ex i separator; orange; 3 mm thick

120 mm	209-191	50 (25)

Accessories; item-specific

End and intermediate plate; 2.5 mm thick

orange	281-335	100 (25)
gray	281-334	100 (25)
light gray	281-345	100 (25)

Separator; oversized; 2 mm thick

orange	281-339	100 (25)
gray	281-338	100 (25)
light gray	281-347	100 (25)

Ex e/Ex i separator; orange; 3 mm thick

120 mm	209-191	50 (25)

Step-down cover plate; 1 mm thick

gray	284-336	100 (25)
orange	284-346	100 (25)

Accessories; 281 Series

Appropriate marking systems: WMB/WMB Inline/WFB

Insulation stop; 0.08 … 0.2 mm² "s" (0.14 mm² "f-st"); 5 pcs/strip

white	281-470	200 (25)

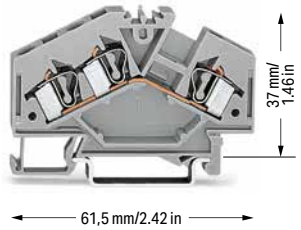
Insulation stop; 0.25 … 0.5 mm²; 5 pcs/strip

light gray	281-471	200 (25)

Insulation stop; 0.75 … 1.5 mm²; 5 pcs/strip

dark gray	281-472	200 (25)

Technical Data	
0.08 … 4 mm²	28 … 12 AWG
800 V/8 kV/3 ❶	600 V, 20 A
I_N 32 A	600 V, 25 A
Terminal block width: 6 mm / 0.236 inch	
9 … 10 mm / 0.35 … 0.39 inch	



❶ 800 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

❷ Terminal blocks with a blue insulated housing are suitable for Ex i applications.

❸ Terminal blocks with an Ex mark are suitable for Ex e II applications.
0.2 … 4 mm² / 24 … 12 AWG
550 V; 30 A
(see Section 14)
Using staggered jumpers reduces the maximum rated voltage to 275 V.

Please observe the application notes:
Insulation stop, page 346
Jumpers, from page 348
Comb-style jumper bar, page 347
Testing accessories, from page 342
Marking, from page 588

Approvals and corresponding ratings, visit www.wago.com

3-conductor through terminal block

Color	Item No.	Pack. Unit
gray	281-631	100
blue	281-651 ❷	100
light gray	281-998 ❸	100

3-conductor ground terminal block

green-yellow	281-637	100
green-yellow	281-637/999-950 ❸	100

Accessories; item-specific

End and intermediate plate; 2.5 mm thick

orange	281-313	100 (25)
gray	281-312	100 (25)
light gray	281-357	100 (25)

Separator; oversized; 2 mm thick

orange	281-318	100 (25)
gray	281-348	100 (25)
light gray	281-358	100 (25)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks

yellow	281-415	100 (25)

Accessories; 281 Series

Appropriate marking systems:
WMB/WMB Inline/WFB

Adjacent jumper; insulated; I_N = I_N terminal block

gray	281-402	200 (25)
yellow-green	281-422	200 (25)

Alternate jumper, insulated; I_N = I_N terminal block

gray	281-409	100 (25)

Staggered jumper; insulated; 6 mm wide; I_N 32 A

1 to 2	781-452	100 (25)
1 to 3	781-453	100 (25)
1 to 4	781-454	100 (25)
1 to 5	781-455	50 (25)
1 to 6	781-456	50 (25)

Push-in type wire jumper; insulated; 0.75 mm² conductor cross section; I_N 9 A

L = 60 mm	249-125	100 (10)
L = 110 mm	249-126	100 (10)
L = 250 mm	249-127	100 (10)

Step-down jumper; insulated; commons 10/6 mm² (8/10 AWG) down to 6/4 mm² (10/12 AWG); I_N 30 A

gray	284-413	50 (25)

Cover plate; 1 mm thick; for 2-, 3- and 4-conductor terminal blocks

gray	284-334	100 (25)
orange	284-344	100 (25)

Comb-style jumper bar; insulated; I_N = I_N of terminal block

2-way	281-482	100 (25)
3-way	281-483	100 (25)
5-way	281-485	100 (25)
10-way	281-490	50 (25)

Alternate comb-style jumper bar; insulated; I_N = I_N of terminal block

2-way	281-492	100 (25)

Operating tool; insulated

2-way	280-432	1
3-way	280-433	1
5-way	281-440	1

Accessories; 281 Series

Appropriate marking systems:
WMB/WMB Inline/WFB

Test plug module; snaps together; 5 mm wide

gray	281-418	100 (25)

Spacer module; snaps together; 5 mm wide

gray	281-419	100 (25)

Test plug adapter; 8.3 mm wide; for 4 mm Ø test plug; for 1.5 … 10 mm² terminal blocks

gray	209-170	50 (25)

Banana plug; for 4 mm socket diameter; color mixed; 10 x orange, white, black, blue, yellow; max. 42 V

	215-111	50

Test plug adapter; 5 mm wide; for 210-137 Test Plug (2.3 mm Ø); for 1.5 … 4 mm² terminal blocks

gray	280-404	100 (25)

Test plug adapter; 6 mm wide; with CAGE CLAMP®; for 0.08 … 2.5 mm²

I_N 24 A	281-407	100 (25)

Test plug; with 500 mm cable; 2 mm Ø; max. 42 V

red	210-136	50

Test plug; with 500 mm cable; 2.3 mm Ø; max. 42 V

yellow	210-137	50

WMB Inline, plain; 1,500 WMB markers (5 mm)/reel; 5 … 5.2 mm stretchable

white	2009-115	1

WMB marking card; white; 10 strips with 10 markers/card; stretchable 5 … 5.2 mm

plain	793-5501	5

WMB marking card; plain; 10 strips with 10 markers/card; stretchable 5 … 5.2 mm

yellow	793-5501/000-002	5
red	793-5501/000-005	5
blue	793-5501/000-006	5
gray	793-5501/000-007	5
orange	793-5501/000-012	5
light green	793-5501/000-017	5
green	793-5501/000-023	5
violet	793-5501/000-024	5

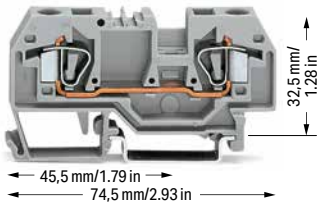
Screwless end stop; for DIN-35 rail; 6 mm wide

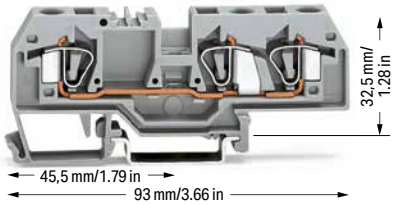
gray	249-116	100 (25)

Through/Ground Conductor and Ex Terminal Block
6 mm²; 282 Series

Technical Data	
0.2 … 6 mm²	24 … 10 AWG
800 V/8 kV/3 ❶	600 V, 30 A
I_N 41 A	600 V, 40 A
Terminal block width: 8 mm / 0.315 inch	
12 … 13 mm / 0.47 … 0.51 inch	

Technical Data	
0.2 … 6 mm²	24 … 10 AWG
800 V/8 kV/3 ❶	600 V, 30 A
I_N 41 A	600 V, 40 A
Terminal block width: 8 mm / 0.315 inch	
12 … 13 mm / 0.47 … 0.51 inch	





❶ 800 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

❷ Terminal blocks with a blue insulated housing are suitable for Ex i applications.

❸ Terminal blocks with an Ex mark are suitable for Ex e II applications.
0.5 … 6 mm² / 20 … 10 AWG
550 V; 39 A
35 A jumper
(see Section 14)

Please observe the application notes:
Step-down jumper, page 250
Test plug module, page 345
Marking, from page 588

Approvals and corresponding ratings, visit www.wago.com

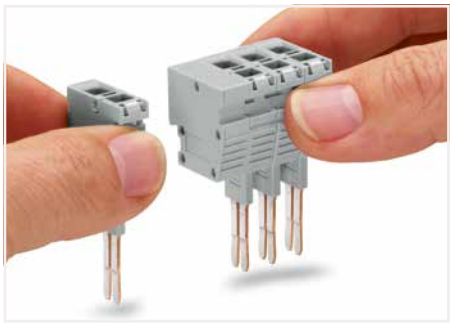
5

2-conductor through terminal block		
Color	Item No.	Pack. Unit
gray	282-901	50
blue	282-904 ❷	50
orange	282-902	50
light gray	282-992 ❸	50

3-conductor through terminal block		
Color	Item No.	Pack. Unit
gray	282-681	25
blue	282-684 ❷	25
orange	282-682	25
light gray	282-993 ❸	50

2-conductor ground terminal block		
green-yellow	282-907	50
green-yellow	282-907/999-950 ❸	50

3-conductor ground terminal block		
green-yellow	282-687	25
green-yellow	282-687/999-950 ❸	50



Snapping test plug and spacer modules together to assemble a multi-pole test plug module (max. 10 poles) for 8 mm terminal block width.

Accessories; item-specific

End and intermediate plate; 2.5 mm thick

orange	282-328	100 (25)
gray	282-325	100 (25)
light gray	282-330	100 (25)

orange	282-339	100 (25)
gray	282-308	100 (25)
light gray	282-341	100 (25)

Separator; oversized; 2 mm thick

orange	282-329	100 (25)
gray	282-326	100 (25)
light gray	282-331	100 (25)

orange	282-340	100 (25)
gray	282-309	100 (25)
light gray	282-342	100 (25)

Step-down cover plate; 1 mm thick

gray	282-357	100 (25)
orange	282-367	100 (25)

gray	282-358	100 (25)
orange	282-368	100 (25)

The test plug modules are directly plugged into the jumper contact slot of the current bar (picture shows 282 Series).

Accessories; 282 Series

Appropriate marking systems: WMB/WMB Inline/WFB

Ex e/Ex i separator; orange; 3 mm thick

120 mm	209-191	50 (25)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks

yellow	282-415	100 (25)

Adjacent jumper; insulated; I_N 41 A

gray	282-402	100 (25)
yellow-green	282-422	100 (25)

Alternate jumper; insulated; I_N 41 A

gray	282-409	100 (25)

Step-down jumper; insulated; commons 10/6 mm² (8/10 AWG) down to 4/2.5/1.5 mm² (12/14/16 AWG); I_N 15 A

gray	284-414	50 (25)

Step-down jumper; insulated; commons 10/6 mm² (8/10 AWG) down to 6/4 mm² (10/12 AWG); I_N 30 A

gray	284-413	50 (25)

Test plug adapter; 8.3 mm wide; for 4 mm Ø test plug; for 1.5 … 10 mm² terminal blocks

gray	209-170	50 (25)

Banana plug; for 4 mm socket diameter; color mixed; 10 x orange, white, black, blue, yellow; max. 42 V

	215-111	50

B-type test plug module; snaps together; 8 mm wide

gray	709-310	100 (25)

B-type spacer module; snaps together; 5 mm wide

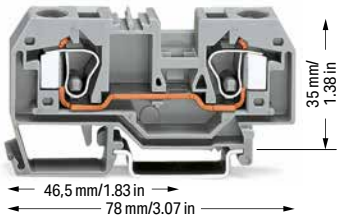
gray	709-311	100 (25)

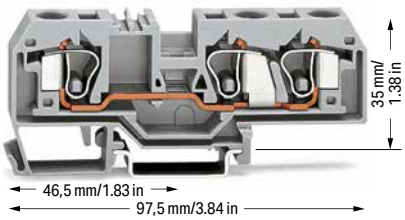
CAGE CLAMP®

Through/Ground Conductor and Ex Terminal Block
10 mm²; 284 Series

Technical Data	
0.2 … 10 mm²	24 … 8 AWG
800 V/8 kV/3 ❶	600 V, 50 A
I_N 57 A	600 V, 54 A
Terminal block width: 10 mm / 0.394 inch	
12 … 13 mm / 0.47 … 0.51 inch	

Technical Data	
0.2 … 10 mm²	24 … 8 AWG
800 V/8 kV/3 ❶	600 V, 50 A
I_N 57 A	600 V, 54 A
Terminal block width: 10 mm / 0.394 inch	
12 … 13 mm / 0.47 … 0.51 inch	





❶ 800 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

❷ Terminal blocks with an Ex mark are suitable for Ex e II applications.
0.5 … 10 mm² / 20 … 8 AWG
550 V; 53 A
(see Section 14)

Please observe the application notes:
Step-down jumper, page 250
Test plug module, page 345
Marking, from page 588

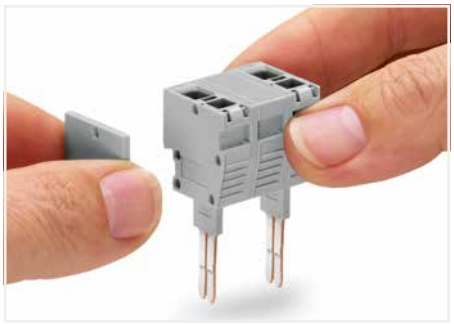
Approvals and corresponding ratings, visit www.wago.com

2-conductor through terminal block		
Color	Item No.	Pack. Unit
gray	284-901	25
blue	284-904	25
orange	284-902	25
light gray	284-992 ❷	25

3-conductor through terminal block		
Color	Item No.	Pack. Unit
gray	284-681	25
blue	284-684	25
orange	284-682	25
light gray	284-993 ❷	25

2-conductor ground terminal block		
green-yellow	284-907	25
green-yellow	284-907/999-950 ❷	25

3-conductor ground terminal block		
green-yellow	284-687	25
green-yellow	284-687/999-950 ❷	25



Snapping test plug and spacer modules (each with a spacer plate) together to assemble a multi-pole test plug module (max. 10 poles) for 10 mm terminal block width.

Accessories; item-specific

End and intermediate plate; 2.5 mm thick			
	orange	284-328	100 (25)
	gray	284-325	100 (25)
	light gray	284-330	100 (25)

End and intermediate plate; 2.5 mm thick			
	orange	284-339	100 (25)
	gray	284-308	100 (25)
	light gray	284-341	100 (25)

Separator; oversized; 2 mm thick			
	orange	284-329	100 (25)
	gray	284-326	100 (25)
	light gray	284-331	100 (25)

Separator; oversized; 2 mm thick			
	orange	284-340	100 (25)
	gray	284-309	100 (25)
	light gray	284-342	100 (25)

Step-down cover plate; 1 mm thick			
	gray	284-357	100 (25)
	orange	284-367	100 (25)

Step-down cover plate; 1 mm thick			
	gray	284-358	100 (25)
	orange	284-368	100 (25)

The test plug modules are directly plugged into the jumper contact slot of the current bar (picture shows 284 Series).

Accessories; 282 Series

Appropriate marking systems: WMB/WMB Inline/WFB

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks			
	yellow	284-415	50 (25)

Step-down jumper; insulated; commons 10/6 mm² (8/10 AWG) down to 6/4 mm² (10/12 AWG); I_N 30 A			
	gray	284-413	50 (25)

Finger guard; touch-proof cover protects unused conductor entries			
	yellow	284-400	100 (25)

Test plug adapter; 8.3 mm wide; for 4 mm Ø test plug; for 1.5 … 10 mm² terminal blocks			
	gray	209-170	50 (25)

Adjacent jumper; insulated; I_N 57 A			
	gray	284-402	100 (25)
	yellow-green	284-422	100 (25)

Banana plug; for 4 mm socket diameter; color mixed; 10 x orange, white, black, blue, yellow; max. 42 V			
		215-111	50

Alternate jumper; insulated; I_N 57 A			
	gray	284-409	50 (25)

B-type test plug module; snaps together; 8 mm wide			
	gray	709-310	100 (25)

Step-down jumper; insulated; commons 10/6 mm² (8/10 AWG) down to 4/2.5/1.5 mm² (12/14/16 AWG); I_N 15 A			
	gray	284-414	50 (25)

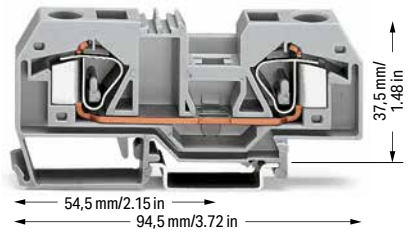
B-type spacer plate; snaps together; 2 mm wide			
	gray	709-312	100 (25)

Finger guard seals an unused conductor entry.

CAGE CLAMP®

Through/Ground Conductor and Ex Terminal Block
16 mm²; 283 Series

Technical Data	
0.2 … 16 mm²	24 … 6 AWG
800 V/8 kV/3 ❶	600 V, 65 A
I_N 76 A	600 V, 70 A
Terminal block width: 12 mm / 0.472 inch	
16 … 17 mm / 0.63 … 0.67 inch	



❶ 800 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

❷ Terminal blocks with an Ex mark are suitable for Ex e II applications.
0.5 … 16 mm² / 20 … 6 AWG
550 V; 68 A
63 A jumper
(see Section 14)

Please observe the application notes:
Step-down jumper, page 250
Marking, from page 588

Approvals and corresponding ratings, visit www.wago.com

5

2-conductor through terminal block		
Color	Item No.	Pack. Unit
gray	283-901	20
blue	283-904	20
orange	283-902	20
light gray	283-992 ❷	20

2-conductor ground terminal block		
green-yellow	283-907	20
green-yellow	283-907/999-950 ❷	20

Accessories; 283 Series

Appropriate marking systems:
WMB/WMB Inline/WFB

End and intermediate plate; 2.5 mm thick

orange	283-328	50 (25)
gray	283-325	50 (25)
light gray	283-330	50 (25)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks

orange	283-329	50 (25)
gray	283-326	50 (25)
light gray	283-331	50 (25)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks

yellow	283-415	50 (25)

Finger guard; touch-proof cover protects unused conductor entries

yellow	283-400	100 (25)

Adjacent jumper; insulated; I_N 70 A

gray	283-402	50 (25)
yellow-green	283-422	50 (25)

Alternate jumper; insulated; I_N 76 A

gray	283-409	50 (25)

Step-down jumper; insulated; commons 16 mm² (6 AWG) down to 4 mm² (12 AWG); I_N 32 A

gray	283-414	50 (25)

Step-down cover plate; 1 mm thick

gray	283-357	100 (25)
orange	283-367	100 (25)

Accessories; 283 Series

Appropriate marking systems:
WMB/WMB Inline/WFB

Test plug adapter; 8.3 mm wide; for 4 mm Ø test plug; for 1.5 … 10 mm² terminal blocks

gray	283-404	25

Banana plug; for 4 mm socket diameter; color mixed; 10 x orange, white, black, blue, yellow; max. 42 V

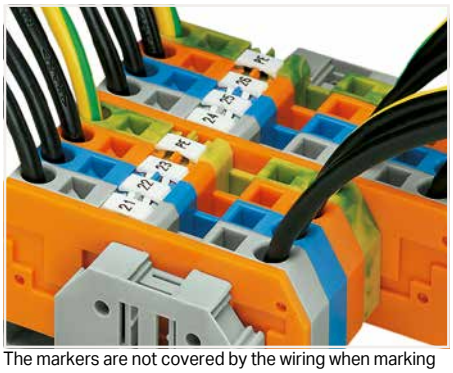
	215-111	50

Power tap; I_N 24 A; with 500 mm cable; for 16 mm² (283/783 Series) and 35 mm² (285/785 Series) rail-mount terminal blocks

gray	283-407	25

Screwless end stop; for DIN-35 rail; 6 mm wide

gray	249-116	100 (25)



The markers are not covered by the wiring when marking terminal blocks in center position.

Always push voltage tap (283-407) down into the terminal block until fully inserted!

CAGE CLAMP®

Through/Ground Conductor and Ex Terminal Block
16 mm²; 283 Series

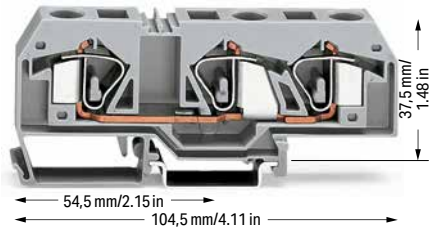
Technical Data	
0.2 … 16 mm²	24 … 6 AWG
800 V/8 kV/3 ❶	600 V, 65 A
I_N 76 A	600 V, 70 A
Terminal block width: 12 mm / 0.472 inch	
16 … 17 mm / 0.63 … 0.67 inch	

❶ 800 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

❷ Terminal blocks with an Ex mark are suitable for Ex e II applications.
0.5 … 16 mm² / 20 … 6 AWG
550 V; 68 A
(see Section 14)

Please observe the application notes:
Marking, from page 588

Approvals and corresponding ratings,
visit www.wago.com



3-conductor through terminal block Notice: This terminal block cannot be commoned with adjacent jumpers.		
Color	Item No.	Pack. Unit
gray	283-671	20
blue	283-674	20
orange	283-672	20
light gray	283-998 ❷	20

3-conductor ground terminal block Notice: This terminal block cannot be commoned with adjacent jumpers.		
green-yellow	283-677	20
green-yellow	283-677/999-950 ❷	20

Finger guard seals an unused conductor entry.

Accessories; 283 Series

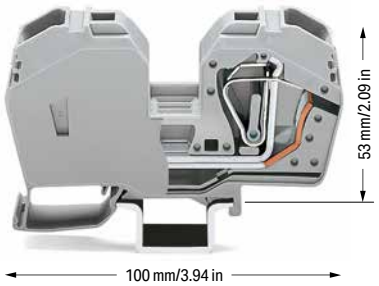
Appropriate marking systems:
WMB/WMB Inline/WFB

End and intermediate plate; 2.5 mm thick			
	orange	283-352	50 (25)
	gray	283-350	50 (25)
	light gray	283-354	50 (25)
Protective warning marker; with black high-voltage symbol; for 5 terminal blocks			
	orange	283-353	50 (25)
	gray	283-351	50 (25)
	light gray	283-355	50 (25)
Protective warning marker; with black high-voltage symbol; for 5 terminal blocks			
	yellow	283-415	50 (25)
Finger guard; touch-proof cover protects unused conductor entries			
	yellow	283-400	100 (25)
Screwless end stop; for DIN-35 rail; 6 mm wide			
	gray	249-116	100 (25)
Screwless end stop; for DIN-35 rail; 10 mm wide			
	gray	249-117	50 (25)

5

Through/Ground Conductor and Ex Terminal Block
35 mm²; 285 Series

Technical Data	
6 … 35 mm²	8 … 2 AWG
1000 V/8 kV/3 ❶	600 V, 115 A
I_N 125 A	600 V, 120 A
Terminal block width: 16 mm / 0.63 inch	
23 mm / 0.91 inch	



❶ 1000 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

❷ Terminal blocks with an Ex mark are suitable for Ex e II applications.
6 … 35 mm² / 8 … 2 AWG
880 V; 85 A
6 … 25 mm² / 8 … 4 AWG
for ground conductor terminal blocks
(see Section 14)

Please observe the application notes:
Marking, from page 588

Approvals and corresponding ratings, visit www.wago.com

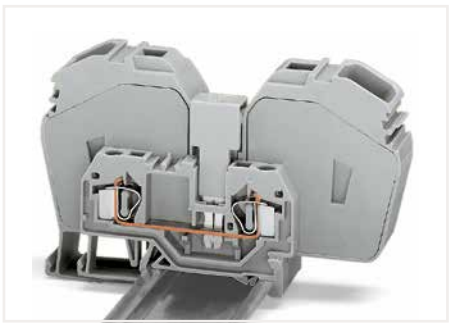
Terminating a 35 mm² (2 AWG) conductor –

5

2-conductor through terminal block; with integrated end plate; only for DIN 35 x 15 rail		
Color	Item No.	Pack. Unit
gray	285-635	15
blue	285-634	15
light gray	285-992 ❷	15

2-conductor ground terminal block; with integrated end plate; only for DIN 35 x 15 rail		
green-yellow	285-637	15
green-yellow	285-637/999-950 ❷	15

Protective warning markers inserted into the operating slots



Commoning a 285 Series terminal block (35 mm²/ 2 AWG) with a 281 Series terminal block (4 mm²/ 12 AWG) using a step-down jumper (283-414).

Accessories; 285 Series

Appropriate marking systems:
WMB/WMB Inline/WFB

Adjacent jumper; insulated; I_N 85 A

gray | 285-435 | 50 (25)

Step-down jumper; insulated; I_N 90 A

gray | 285-430 | 50 (25)

Protective warning marker; with a black high-voltage symbol

yellow | 285-416 | 100 (25)

Finger guard; touch-proof cover protects unused conductor entries

yellow | 285-401 | 100 (25)

Power tap; I_N 24 A; with 500 mm cable; for 16 mm² (283/783 Series) and 35 mm² (285/785 Series) rail-mount terminal blocks

gray | 283-407 | 25

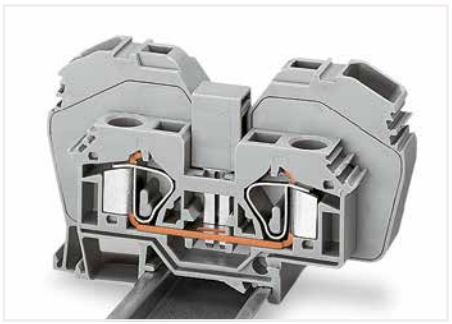
Screwless end stop; for DIN-35 rail; 6 mm wide

gray | 249-116 | 100 (25)

Screwless end stop; for DIN-35 rail; 6 mm wide

gray | 249-117 | 50 (25)

Finger guard seals an unused conductor entry.



The following 285 Series Through Terminal Blocks can be commoned with 283 Series Through Terminal Blocks:
285-635 or 285-634 with 283-601 or 283-604 (terminal blocks with side marking, visit www.wago.com)
Adjacent jumper required: 285-435

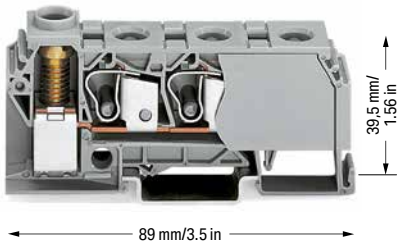
Please note that the nominal current of the adjacent jumper must not exceed 63 A.

CAGE CLAMP®

Distribution Terminal Block; 3 x 10 mm² CAGE CLAMP® Connection and 1 x 35 mm² Screw Clamp Connection

284 Series

Technical Data	
0.2 … 10 mm² ❶	24 … 8 AWG
6 … 35 mm² ❷	10 … 2 AWG
800 V/8 kV/3 ❸	
I_N 125 A	
Terminal block width: 17.5 mm / 0.689 inch	
12 … 14 mm / 0.47 … 0.55 inch	



❶ CAGE CLAMP® connection

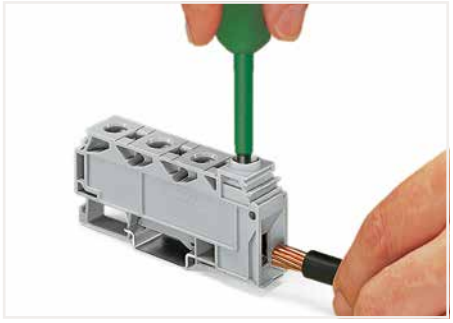
❷ Screw-type connection

❸ 800 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

❹ Individual arrangement: 125 A
Two jumpers combined in one clamping unit: 100 A

Please observe the application notes:
Marking, from page 588

Approvals and corresponding ratings,
visit www.wago.com



Terminating a 35 mm² (2 AWG) conductor – screw clamp connection, side-entry wiring

Distribution terminal block; with 3 x CAGE CLAMP® connection (10 mm²/8 AWG); 1 x screw clamp connection (35 mm²/2 AWG) and 3.5 Nm screw torque

Color	Item No.	Pack. Unit
gray	284-621	15
blue	284-624	15

Terminating a 10 mm² (8 AWG) conductor – CAGE CLAMP® connection, front-entry wiring.

Commoning with comb-style jumper bar.

Accessories; distribution terminal block

Appropriate marking system:
WMB

Adjacent jumper; insulated; I_N 125 A; for 1 jumper; I_N 100 A; for 2 jumpers

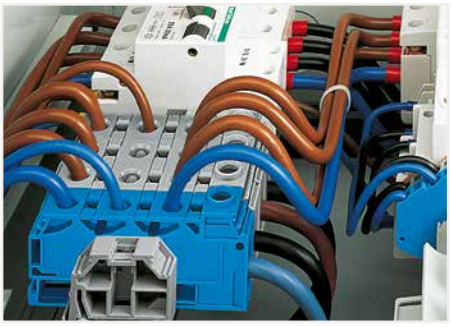
	gray	284-412 ❹	100 (25)

Screwless end stop; for DIN-35 rail; 6 mm wide

	gray	249-116	100 (25)

Screwless end stop; for DIN-35 rail; 10 mm wide

	gray	249-117	50 (25)



Side-entry distribution terminal block with screw clamp connection (35 mm²/2 AWG) and front-entry CAGE CLAMP® connection (3 x 10 mm²/8 AWG) snaps onto
This terminal block snaps onto DIN-35 rail – it is enclosed on both sides and requires no end or intermediate plate.

When connecting 3 x 10 mm² (8 AWG) conductors on the distribution side, make sure that the nominal current of 125 A is not exceeded.

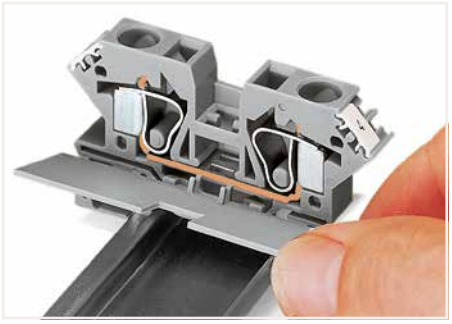
5

Step-Down Jumpers; for Front-Entry Through Terminal Blocks up to 16 mm²
Installation

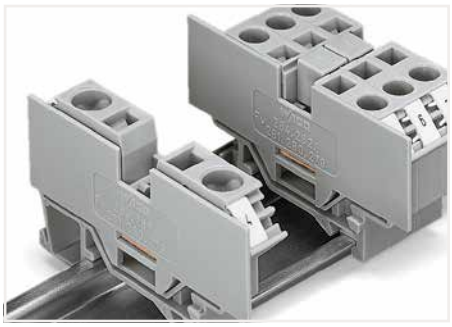
Step-down jumper from 10/6 mm² (8/10 AWG) to 4/2.5/1.5 mm² (12/14/16 AWG)
I_N 15 A, Item No. 284-414

Step-down jumper from 10/6 mm² (8/10 AWG) to 6/4 mm² (10/12 AWG)
I_N 30 A, Item No. 284-413

Step-down jumper from 16 mm² (6 AWG) to 4 mm² (12 AWG)
I_N 32 A, Item No. 283-414



Snapping a cover plate onto open side of terminal block.



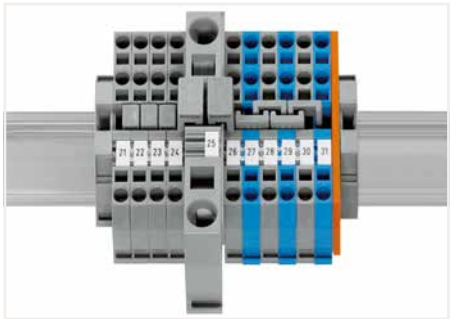
A cover plate must also be snapped onto the other side of the larger terminal block.

Commoning terminal blocks of different sizes – step down. Push down the step-down jumper until fully inserted.

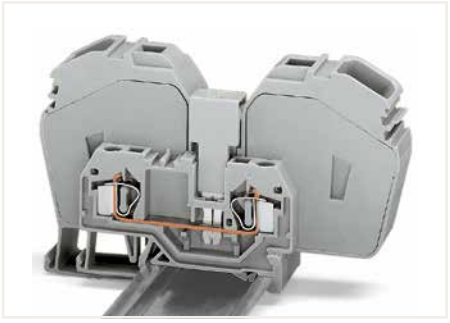
Step-down jumpers common terminal blocks of different sizes, without losing a conductor clamping point. This can be beneficial on long conductor runs where voltage drop can be a problem. A large conductor can be easily connected to smaller conductors at the distribution point.

Step-down jumpers are simply pushed down for full insertion, similar to adjacent jumpers. Commoning may be made in either direction using the special thin end plate to cover the open side. Additional through terminal blocks having a smaller cross section may be commoned using adjacent jumpers.
In this case, pay attention that:
- The total current of the outgoing circuits does not exceed the nominal current of the step-down jumper.
- The standard or special thin cover plate is installed on the open side of the larger block.

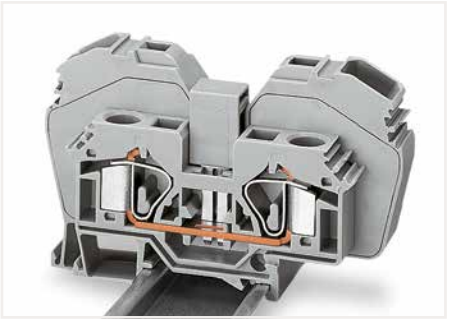
Note: Jumpers are marked with suitable terminal block sizes for correct installation.



Commoning from 16 mm²/6 AWG (283 Series) to 4 mm²/12 AWG (281 Series) rail-mount terminal blocks via step-down jumpers.



Commoning a 285 Series terminal block (35 mm²/ 2 AWG) with a 281 Series terminal block (4 mm²/ 12 AWG) using a step-down jumper (283-414).



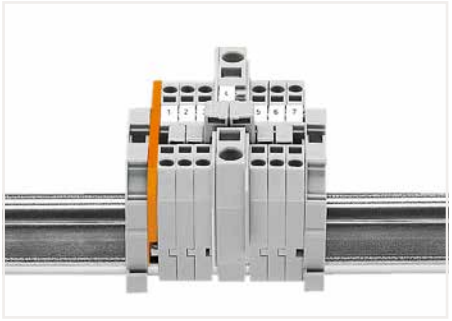
The following 285 Series Through Terminal Blocks can be commoned with 283 Series Through Terminal Blocks: 285-635 or 285-634 with 283-601 or 283-604 (terminal blocks with side marking, visit www.wago.com)
Adjacent jumper required: 285-435

Please note that the nominal current of the adjacent jumper must not exceed 63 A.

Assembly Examples

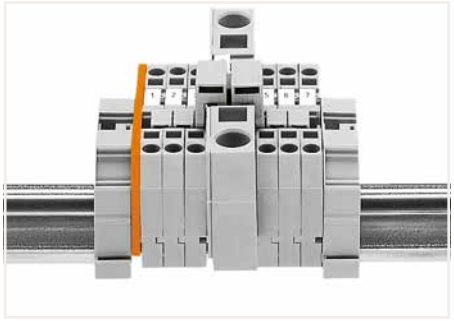
Step-Down Jumpers; for Front-Entry Through Terminal Blocks

Terminal blocks with side marking, visit www.wago.com

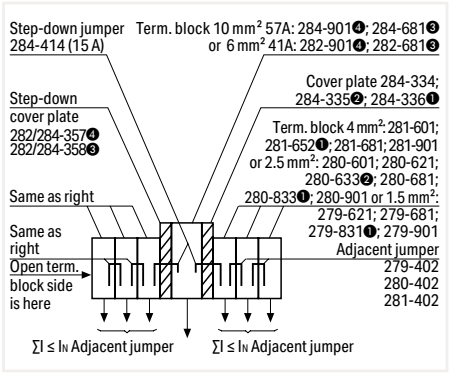


Commoning from 6 mm²/10 AWG (282 Series) to 1.5 mm²/16 AWG (279 Series) rail-mount terminal blocks via step-down jumpers.

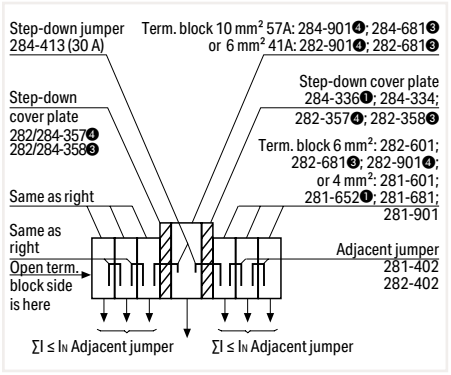
Commoning from 10 mm²/8 AWG (284 Series) to 6 mm²/10 AWG (282 Series) rail-mount terminal blocks via step-down jumpers.



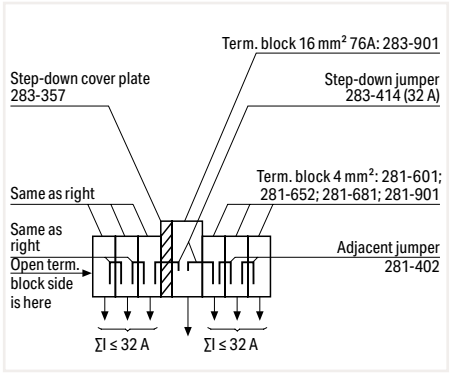
Commoning from 16 mm²/6 AWG (283 Series) to 4 mm²/12 AWG (281 Series) rail-mount terminal blocks via step-down jumpers.



Assembly example: Commoning from 10/6 mm² (8/10 AWG) to 4/2.5/1.5 mm² (12/14/16 AWG) rail-mount terminal blocks via step-down jumper (284-414).



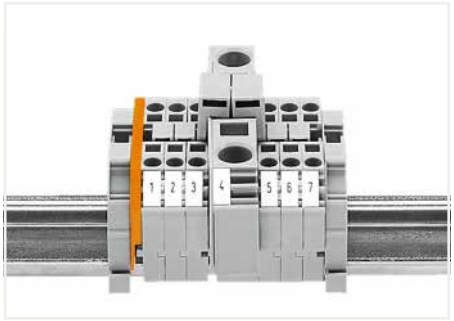
Assembly example: Commoning from 10/6 mm² (8/10 AWG) to 6 mm² (10 AWG) rail-mount terminal blocks via step-down jumper (284-413).



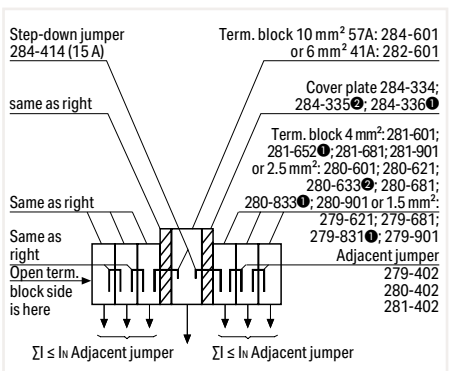
Assembly example: Commoning from 16 mm²/6 AWG to 4 mm²/12 AWG rail-mount terminal blocks via step-down jumper (283-414).

Commoning from 6 mm²/10 AWG (282 Series) to 1.5 mm²/16 AWG (279 Series) rail-mount terminal blocks via step-down jumpers.

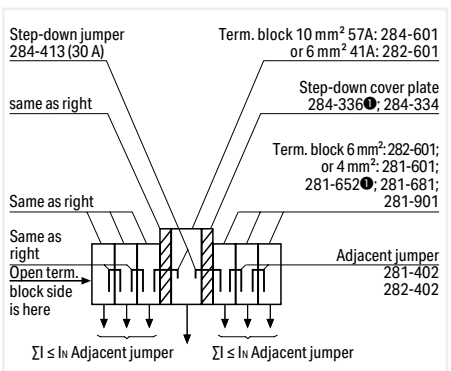
Commoning from 10 mm²/8 AWG (284 Series) to 6 mm²/10 AWG (282 Series) rail-mount terminal blocks via step-down jumpers.



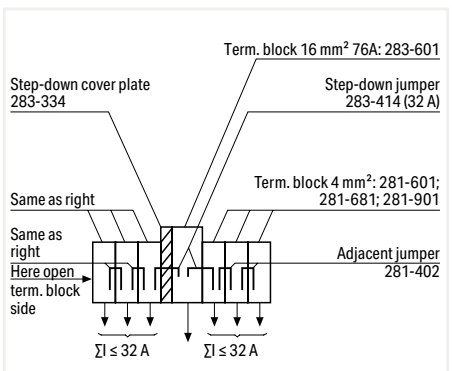
Commoning from 16 mm²/6 AWG (283 Series) to 4 mm²/12 AWG (281 Series) rail-mount terminal blocks via step-down jumpers.



Assembly example: Commoning from 10/6 mm² (8/10 AWG) to 4/2.5/1.5 mm² (12/14/16 AWG) rail-mount terminal blocks via step-down jumper (284-414).



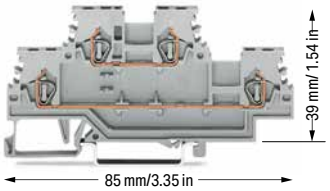
Assembly example: Commoning from 10/6 mm² (8/10 AWG) to 6 mm² (10 AWG) rail-mount terminal blocks via step-down jumper (284-413).



Assembly example: Commoning from 16 mm²/6 AWG to 4 mm²/12 AWG rail-mount terminal blocks via step-down jumper (283-414).

Double-Deck Terminal Block
1.5 mm²; 279 Series

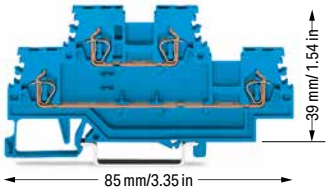
Technical Data	
0.08 … 1.5 mm²	28 … 16 AWG
500 V/6 kV/3 ❶	300 V, 10 A
I_N 18 A	
Terminal block width: 4 mm / 0.157 inch	
8 … 9 mm / 0.31 … 0.35 inch	



Double-deck terminal block; through/through terminal block; gray housing

	Item No.	Pack. Unit
L/L	279-501	50
N/L	279-512	50
L/N	279-513	50

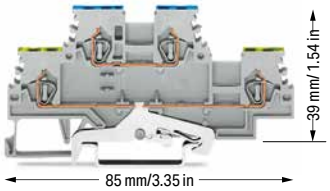
Technical Data	
0.08 … 1.5 mm²	28 … 16 AWG
500 V/6 kV/3 ❶	300 V, 10 A
I_N 18 A	
Terminal block width: 4 mm / 0.157 inch	
8 … 9 mm / 0.31 … 0.35 inch	



Double-deck terminal block; through/through terminal block; blue housing

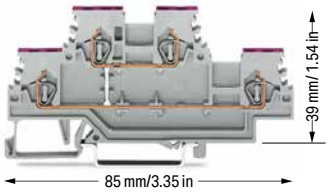
	Item No.	Pack. Unit
N/N	279-504 ❷	50

Technical Data	
0.08 … 1.5 mm²	28 … 16 AWG
500 V/6 kV/3 ❶	
I_N 18 A	
Terminal block width: 4 mm / 0.157 inch	
8 … 9 mm / 0.31 … 0.35 inch	



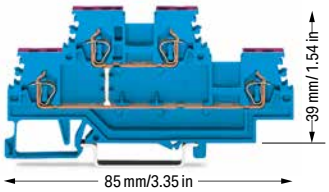
Double-deck terminal block; ground conductor/through terminal block; gray housing

	Item No.	Pack. Unit
PE/N	279-517	50
PE/L	279-527	50



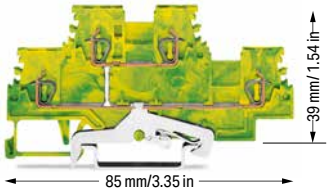
Double-deck terminal block; 4-conductor through terminal block; internally commoned; violet conductor entry; gray housing

	Item No.	Pack. Unit
L	279-508	50



Double-deck terminal block; 4-conductor through terminal block; internally commoned; violet conductor entry; blue housing

	Item No.	Pack. Unit
N	279-509 ❷	50



Double-deck terminal block; 4-conductor ground terminal block; internally commoned; green-yellow housing

	Item No.	Pack. Unit
PE	279-507	50

❶ 500 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

❷ Terminal blocks with a blue insulated housing are suitable for Ex i applications.

Please observe the application notes:
Insulation stop, page 346
Comb-style jumper bar, page 347
Marking, from page 588

Approvals and corresponding ratings, visit www.wago.com

Accessories; 279 Series

Appropriate marking systems:
WMB/WMB Inline/WFB

End and intermediate plate; 2 mm thick

orange	279-519	200 (25)
gray	279-518	

Insulation stop; 0.08 … 0.2 mm² "s" (0.14 mm² "f-st"); 5 pcs/strip

white	279-470	200 (25)

Insulation stop; 0.25 mm²; 5 pcs/strip

dark gray	279-471	200 (25)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks

yellow	279-415	100 (25)

Adjacent jumper; insulated; I_N 15 A

gray	279-402	200 (25)
yellow-green	279-422	200 (25)

Alternate jumper; insulated; I_N 15 A

gray	279-409	100 (25)

Comb-style jumper bar; insulated; I_N = I_N of terminal block

2-way	279-482	200 (25)
3-way	279-483	200 (25)

Comb-style jumper bar; insulated; I_N = I_N of terminal block

10-way	279-490	50 (25)

Alternate comb-style jumper bar; insulated; I_N = I_N of terminal block

2-way	279-492	200 (25)

Operating tool; insulated

2-way	279-432	1
3-way	279-433	1

Operating tool; insulated

10-way	279-440	1

Double-deck marker carrier

gray	279-529	50 (25)

Accessories; 279 Series

Appropriate marking systems:
WMB/WMB Inline/Marking Strips

WMB Inline; plain; 2,000 WMB markers (4 mm)/reel; stretchable 4 … 4.2 mm

white	2009-114	1

WMB marking card; white; 10 strips with 10 markers/card; stretchable 4 … 4.2 mm

plain	793-4501	5

WMB marking card; plain; 10 strips with 10 markers/card; stretchable 4 … 4.2 mm

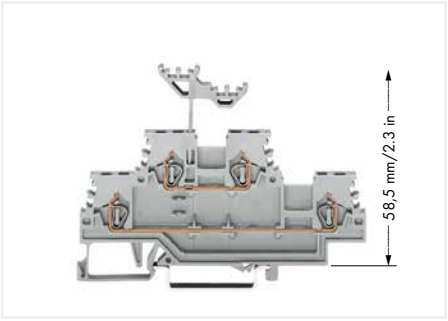
yellow	793-4501/000-002	5
red	793-4501/000-005	5
blue	793-4501/000-006	5
gray	793-4501/000-007	5
orange	793-4501/000-012	5
light green	793-4501/000-017	5
green	793-4501/000-023	5
violet	793-4501/000-024	5

Screwless end stop; for DIN-35 rail; 6 mm wide

gray	249-116	100 (25)

Screwless end stop; for DIN-35 rail; 10 mm wide

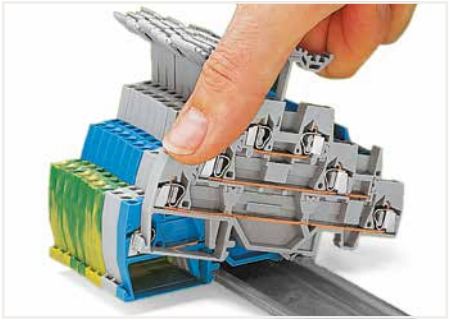
gray	249-117	50 (25)



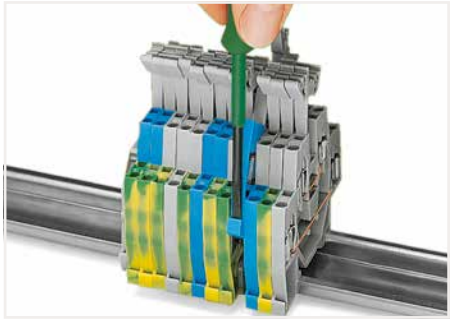
Double-deck marker carrier
(height including marker carrier)

5

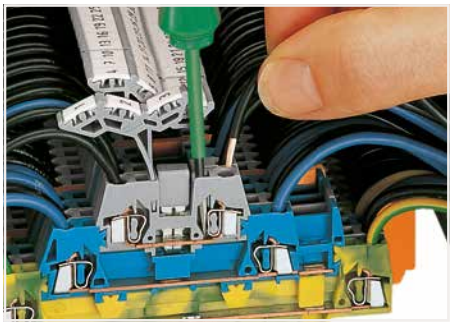
Double- and Triple-Deck Terminal Blocks
280 and 281 Series
Description and Installation



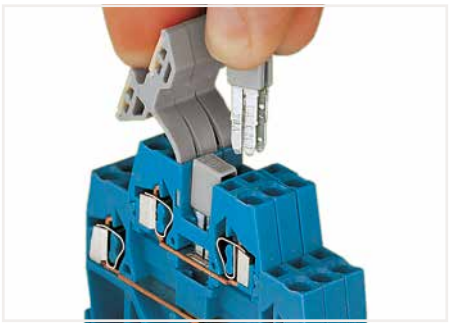
Snapping a terminal block onto the DIN-rail.



Removing a terminal block from the assembly.

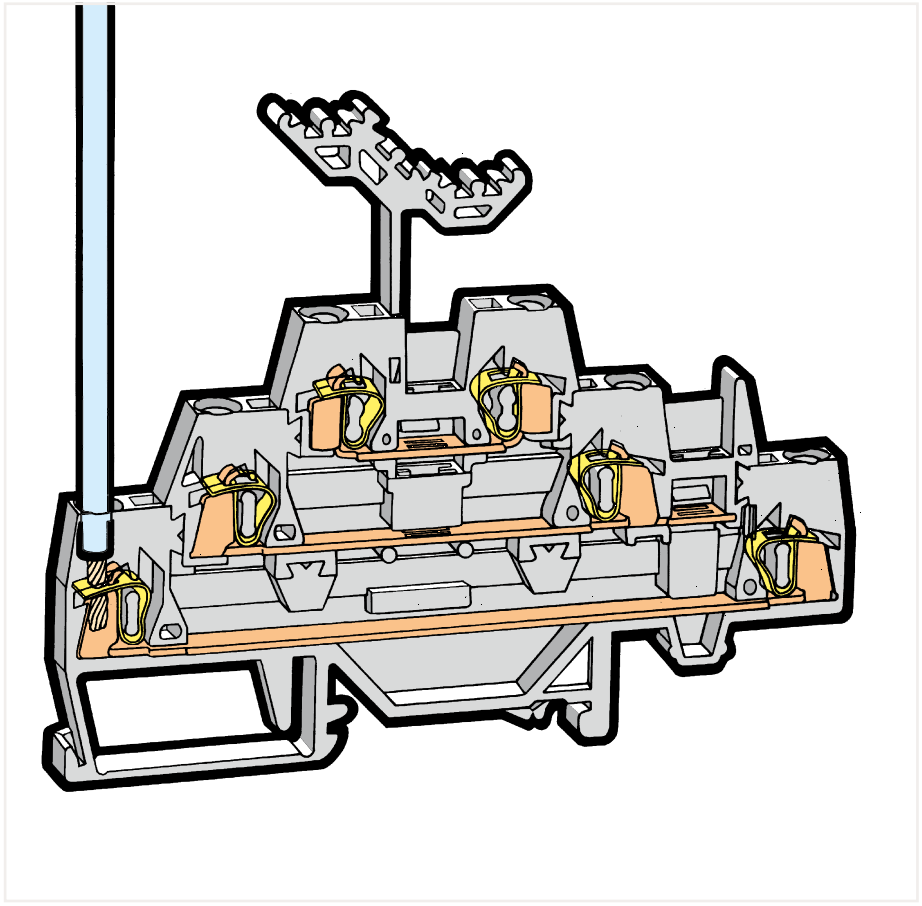


CAGE CLAMP® connection
Inserting a conductor.
With ferruled conductors, it is necessary to use a terminal block one size smaller than the conductor's nominal cross section.

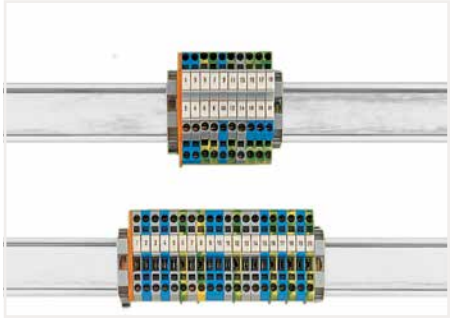


Commoning using an adjacent jumper (280-402).
push jumpers down until fully inserted.

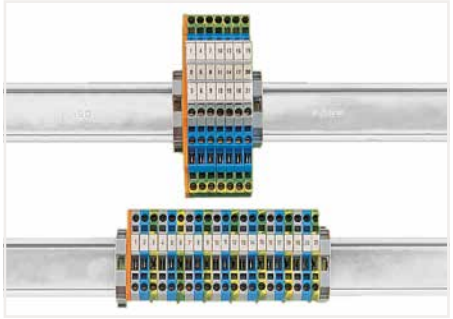
Combining vertical and adjacent jumpers.



Labeling via WMB Multi Marking System.



Use 50 % less rail space with double-deck terminal blocks.



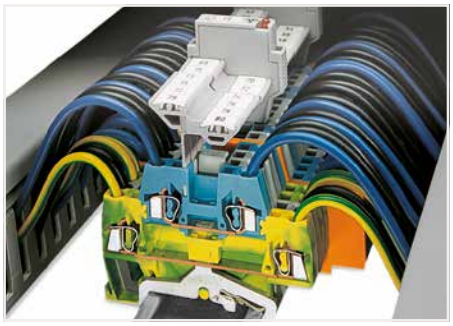
Use 67 % less rail space with triple-deck terminal blocks.

CAGE CLAMP® terminates the following copper conductors:
solid

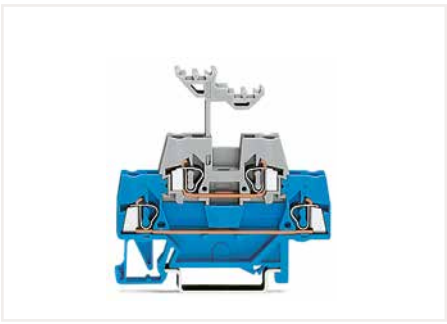
stranded

fine-stranded, also with tinned single strands

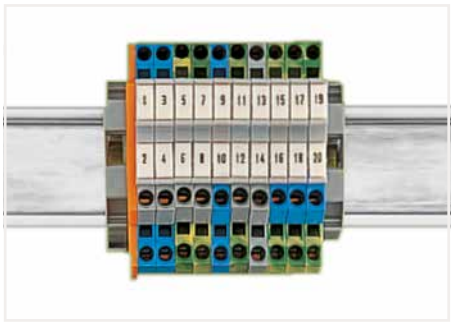
For aluminum conductors, see notes in Section 14.



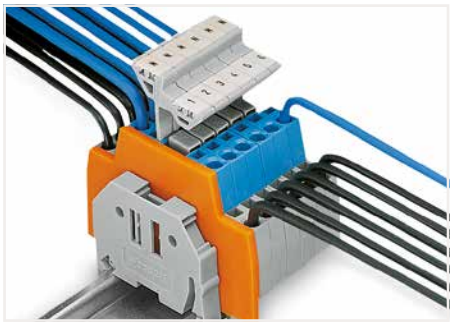
Example of a mixed assembly with double-deck terminal blocks.
The 280 Series Double-Deck Terminal Blocks are available with decks of same or different color according to their function. This is an additional visual aid during wiring, service or maintenance.



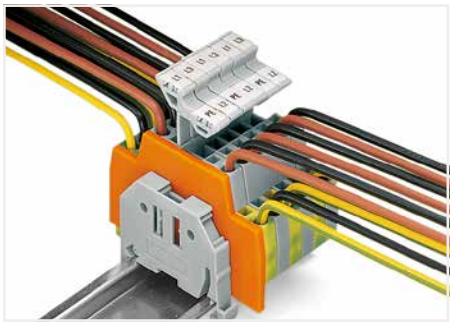
Double-deck terminal blocks accommodate two circuits of different potentials on two decks; different circuits can be differentiated by color coding either deck (280 Series). The lower deck is wider than the upper for ease of wiring.



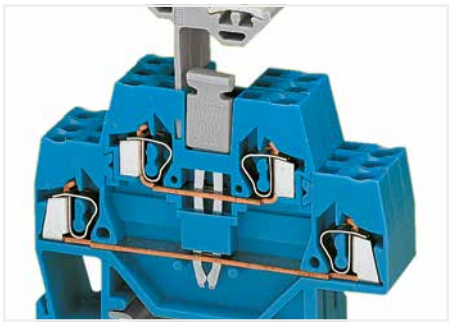
With a terminal block width of just 5 mm, an effective width of just 2.5 mm for terminal blocks of same or different potentials can be realized for conductors ranging 0.08 mm² … 2.5 mm² (28 … 14 AWG).



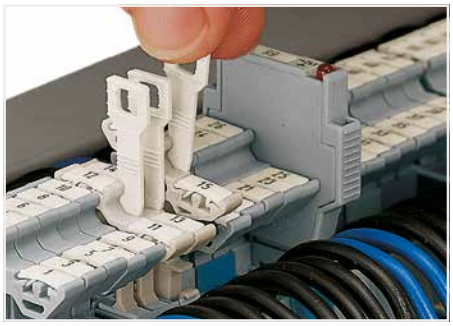
Double-deck terminal blocks used as control conductor terminal blocks (e.g., for magnetic valves) with the upper deck commoned.



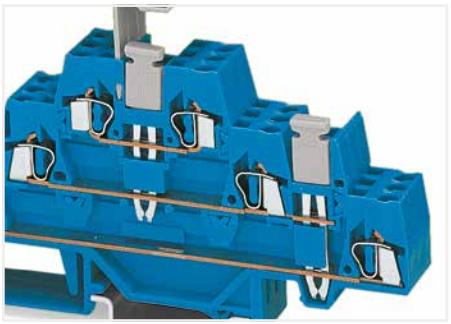
Double-deck terminal blocks used for connecting a three-phase motor.



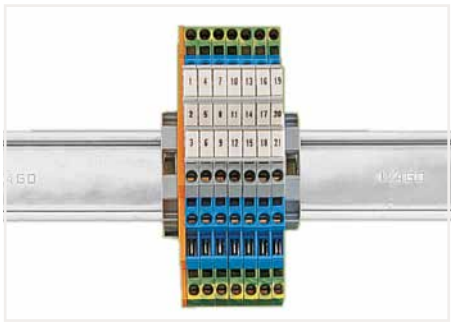
Commoning with a vertical jumper (281-421).
Push vertical jumper down until fully inserted.



Pulling the disconnect tab.



A vertical jumper allows commoning of the upper and lower levels, providing a 6-conductor feedthrough terminal block in one housing. Two adjacent triple-deck terminal blocks may be commoned together on the same level using a push-in adjacent jumper.



Double-deck (triple-deck) terminal blocks accommodate two (three) circuits of different potentials on two (three) decks; different circuits can be differentiated by color coding either deck (280 Series).
The lower deck is wider than the upper for ease of wiring.

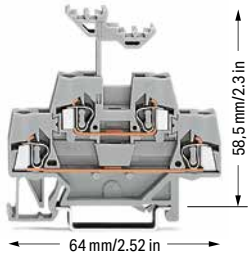
fine-stranded,
tip-bonded

fine-stranded,
with ferrule
(gastight crimped)

fine-stranded,
with pin terminal
(gastight crimped)

Double-Deck Terminal Block
2.5 mm²; 280 Series

Technical Data	
0.08 … 2.5 mm²	28 … 12 AWG*
500 V/6 kV/3 ❶	300 V, 15 A
I_N 20 A	300 V, 20 A
Terminal block width: 5 mm / 0.197 inch	
8 … 9 mm / 0.31 … 0.35 inch	



Double-deck terminal block; through/through terminal block

Color	Item No.	Pack. Unit
gray	280-519	50
blue	280-529 ❷	50

Other terminal blocks with the same profile:

Diode	280-940/281-410	Page 334
LED	280-943/281-434	Page 334

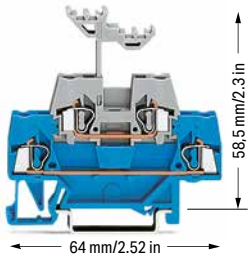
Accessories; item-specific

End and intermediate plate; 2.5 mm thick

orange	280-341	100 (25)
gray	280-340	100 (25)

Intermediate plate; 1.1 mm thick

orange	280-366	100 (25)



Double-deck terminal block; through/through terminal block

Color	Item No.	Pack. Unit
blue/gray	280-523	50
gray/blue	280-533	50

Accessories; item-specific

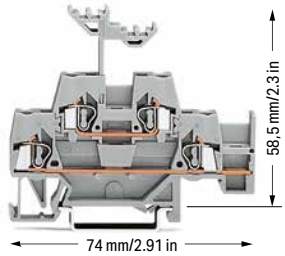
End and intermediate plate; 2.5 mm thick

orange	280-341	100 (25)
gray	280-340	100 (25)

Intermediate plate; 1.1 mm thick

orange	280-366	100 (25)

Technical Data	
0.08 … 2.5 mm²	28 … 12 AWG*
500 V/6 kV/3 ❶	300 V, 15 A
I_N 20 A	300 V, 20 A
Terminal block width: 5 mm / 0.197 inch	
8 … 9 mm / 0.31 … 0.35 inch	



Double-deck terminal block; through/through terminal block; with slot for adjacent jumper

Color	Item No.	Pack. Unit
gray	280-520	50
blue	280-530 ❷	50

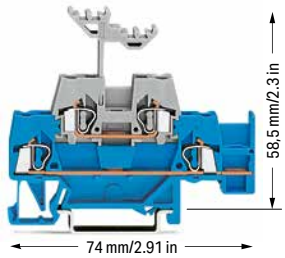
Accessories; item-specific

End and intermediate plate; 2.5 mm thick

orange	280-343	100 (25)
gray	280-342	100 (25)

Intermediate plate; 1.1 mm thick

orange	280-369	100 (25)



Double-deck terminal block; through/through terminal block; with slot for adjacent jumper

Color	Item No.	Pack. Unit
blue/gray	280-524	50
gray/blue	280-534	50

Accessories; item-specific

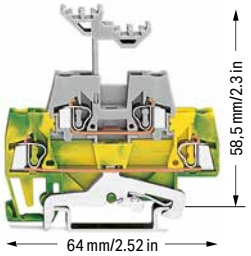
End and intermediate plate; 2.5 mm thick

orange	280-343	100 (25)
gray	280-342	100 (25)

Intermediate plate; 1.1 mm thick

orange	280-369	100 (25)

Technical Data	
0.08 … 2.5 mm²	28 … 12 AWG*
500 V/6 kV/3 ❶	
I_N 20 A	300 V, 20 A
Terminal block width: 5 mm / 0.197 inch	
8 … 9 mm / 0.31 … 0.35 inch	



Double-deck terminal block; ground conductor/through terminal block

Color	Item No.	Pack. Unit
green-yellow/gray	280-527	50
green-yellow/blue	280-537	50

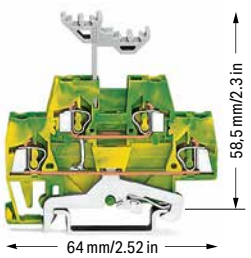
Accessories; item-specific

End and intermediate plate; 2.5 mm thick

orange	280-341	100 (25)
gray	280-340	100 (25)

Intermediate plate; 1.1 mm thick

orange	280-366	100 (25)



Double-deck terminal block; 4-conductor ground terminal block; internally commoned

Color	Item No.	Pack. Unit
green-yellow	280-517	50

Accessories; item-specific

End and intermediate plate; 2.5 mm thick

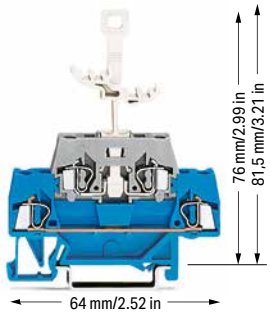
orange	280-341	100 (25)
gray	280-340	100 (25)

Intermediate plate; 1.1 mm thick

orange	280-366	100 (25)

CAGE CLAMP®

Technical Data	
0.08 … 2.5 mm²	28 … 12 AWG*
400 V/6 kV/3 ❶	300 V, 15 A
I_N 10 A	300 V, 20 A
Terminal block width: 5 mm / 0.197 inch	
8 … 9 mm / 0.31 … 0.35 inch	



Double-deck terminal block; through/disconnect terminal block

Color	Item No.	Pack. Unit
blue/gray	280-525	50
gray/gray	280-521	50

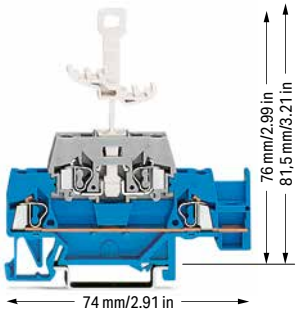
Accessories; item-specific

End and intermediate plate; 2.5 mm thick

orange	280-341	100 (25)
gray	280-340	100 (25)

Intermediate plate; 1.1 mm thick

orange	280-366	100 (25)



Double-deck terminal block; through/disconnect terminal block; with slot for adjacent jumper

Color	Item No.	Pack. Unit
blue/gray	280-526	50
gray/gray	280-522	50

Accessories; item-specific

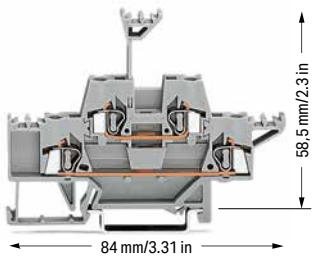
End and intermediate plate; 2.5 mm thick

orange	280-343	100 (25)
gray	280-342	100 (25)

Intermediate plate; 1.1 mm thick

orange	280-369	100 (25)

Technical Data	
0.08 … 2.5 mm²	28 … 12 AWG*
500 V/6 kV/3 ❶	300 V, 15 A
I_N 20 A	300 V, 20 A
Terminal block width: 5 mm / 0.197 inch	
8 … 9 mm / 0.31 … 0.35 inch	



Double-deck terminal block; through/through terminal block; with additional marking options on both terminal block sides

Color	Item No.	Pack. Unit
gray	280-513	50

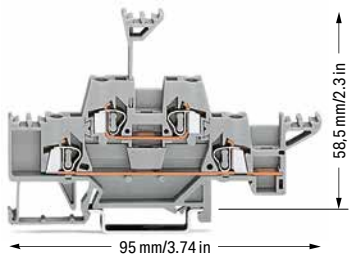
Accessories; item-specific

End and intermediate plate; 2.5 mm thick

orange	280-341	100 (25)
gray	280-340	100 (25)

Intermediate plate; 1.1 mm thick

orange	280-366	100 (25)



Double-deck terminal block; through/through terminal block; with additional marking options on both terminal block sides; with slot for adjacent jumper

Color	Item No.	Pack. Unit
gray	280-543	50

Accessories; item-specific

End and intermediate plate; 2.5 mm thick

orange	280-343	100 (25)
gray	280-342	100 (25)

Intermediate plate; 1.1 mm thick

orange	280-369	100 (25)

*12 AWG: THHN, THWN

❶ 500 V / 400 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

❷ Terminal blocks with a blue insulated housing are suitable for Ex i applications.

Please observe the application notes:
Insulation stop, page 346
Comb-style jumper bar, page 347
Marking, from page 588

Approvals and corresponding ratings, visit www.wago.com

Accessories; 280 Series

Appropriate marking systems: WMB/WMB Inline

Insulation stop; 0.08 … 0.2 mm² "s" (0.14 mm² "f-st"); 5 pcs/strip

white	280-470	200 (25)

Insulation stop; 0.25 … 0.5 mm²; 5 pcs/strip

light gray	280-471	200 (25)

Insulation stop; 0.75 … 1 mm²; 5 pcs/strip

dark gray	280-472	200 (25)

Adjacent jumper; insulated; I_N = I_N terminal block

gray	280-402	200 (25)
yellow-green	280-422	200 (25)

Alternate jumper; insulated; I_N = I_N terminal block

gray	280-409	100 (25)

Vertical jumper; insulated; I_N 24 A

gray	281-421	200 (25)

Comb-style jumper bar; insulated; I_N = I_N of terminal block

2-way	280-482	200 (25)
3-way	280-483	200 (25)

Comb-style jumper bar; insulated; I_N = I_N of terminal block

10-way	280-490	50 (25)

Alternate comb-style jumper bar; insulated; I_N = I_N of terminal block

2-way	280-492	200 (25)

Operating tool; insulated

2-way	280-432	1
3-way	280-433	1

Operating tool; insulated

10-way	280-440	1

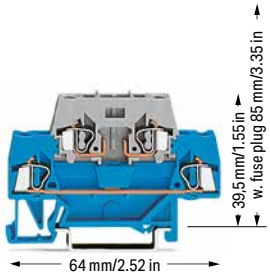
Screwless end stop; for DIN-35 rail; 6 mm wide

gray	249-116	100 (25)

5

Double- and Triple-Deck Carrier Terminal Block for Fuse Plugs
2.5 mm²; 280 Series

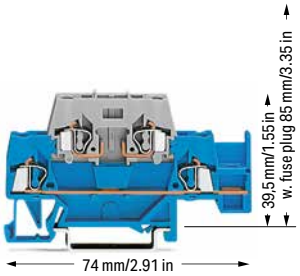
Technical Data	
0.08 … 2.5 mm²	28 … 12 AWG*
400 V/6 kV/3 ❶❷	300 V, 15 A
I_N 10 A (20 A)	300 V, 20 A
Terminal block width: 5 mm / 0.197 inch	
8 … 9 mm / 0.31 … 0.35 inch	



Double-deck terminal block; through/carrier terminal block for fuse plugs

Color	Item No.	Pack. Unit
blue/gray	280-531	50
gray/gray	280-514	50

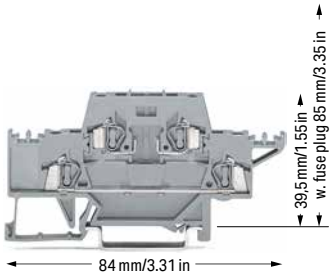
Technical Data	
0.08 … 2.5 mm²	28 … 12 AWG*
400 V/6 kV/3 ❶❷	300 V, 15 A
I_N 10 A (20 A)	300 V, 20 A
Terminal block width: 5 mm / 0.197 inch	
8 … 9 mm / 0.31 … 0.35 inch	



Double-deck terminal block; through/carrier terminal block for fuse plugs; with slot for adjacent jumper

Color	Item No.	Pack. Unit
blue/gray	280-532	50
gray/gray	280-891	50

Technical Data	
0.08 … 2.5 mm²	28 … 12 AWG*
400 V/6 kV/3 ❶❷	
I_N 10 A (10 A)	
Terminal block width: 5 mm / 0.197 inch	
8 … 9 mm / 0.31 … 0.35 inch	



Double-deck terminal block; through/carrier terminal block for fuse plugs

Color	Item No.	Pack. Unit
gray/gray	280-528	50

5

Accessories; item-specific

End and intermediate plate; 2.5 mm thick

orange	280-341	100 (25)
gray	280-340	100 (25)

Intermediate plate; 1.1 mm thick

orange	280-366	100 (25)

Accessories; item-specific

End and intermediate plate; 2.5 mm thick

orange	280-343	100 (25)
gray	280-342	100 (25)

Intermediate plate; 1.1 mm thick

orange	280-369	100 (25)

Adjacent jumper; insulated; I_N = I_N terminal block

gray	280-402	200 (25)

Alternate jumper; insulated; I_N = I_N terminal block

gray	280-409	100 (25)

Accessories; item-specific

End and intermediate plate; 2.5 mm thick

orange	280-341	100 (25)
gray	280-340	100 (25)

Intermediate plate; 1.1 mm thick

orange	280-366	100 (25)

Accessories

Appropriate marking system for fuse plugs:
WSB quick marking system

Insulation stop; 0.08 … 0.2 mm² "s" (0.14 mm² "f-st"); 5 pcs/strip

white	280-470	200 (25)

Insulation stop; 0.25 … 0.5 mm²; 5 pcs/strip

light gray	280-471	200 (25)

Insulation stop; 0.75 … 1 mm²; 5 pcs/strip

dark gray	280-472	200 (25)

Fuse plug with pull-tab; 6 mm wide

	281-511	50

Fuse plug with pull-tab; 6 mm wide

	281-512	50

Fuse plug with pull-tab; 24 VAC/DC; with LED; 6 mm wide

	281-512/281-501	50

Comb-style jumper bar; insulated; I_N = I_N of terminal block

2-way	280-482	200 (25)
3-way	280-483	200 (25)

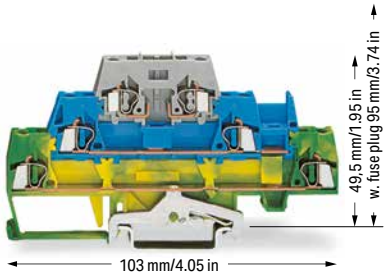
Alternate comb-style jumper bar; insulated; I_N = I_N of terminal block

2-way	280-492	200 (25)

Operating tool; insulated

2-way	280-432	1
3-way	280-433	1

Technical Data	
0.08 … 2.5 mm²	28 … 12 AWG*
400 V/6 kV/3 ❶❷	300 V, 15 A
I_N 20 A (20 A)	300 V, 20 A
Terminal block width: 5 mm / 0.197 inch	
8 … 9 mm / 0.31 … 0.35 inch	



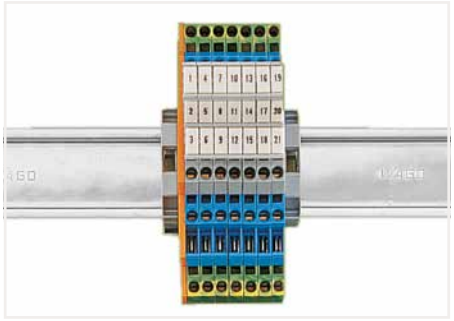
*12 AWG: THHN, THWN

❶ 500 V / 400 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

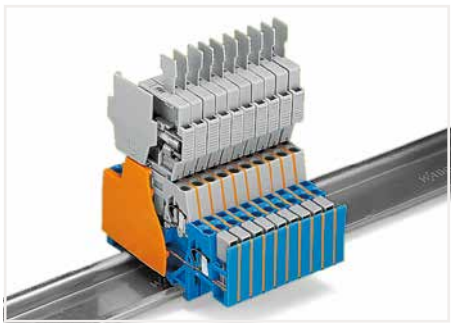
❷ Electrical ratings are given by the fuse or LED nominal voltage (see page 292).

Please observe the application notes:
Insulation stop, page 346
Comb-style jumper bar, page 347
Marking, from page 588

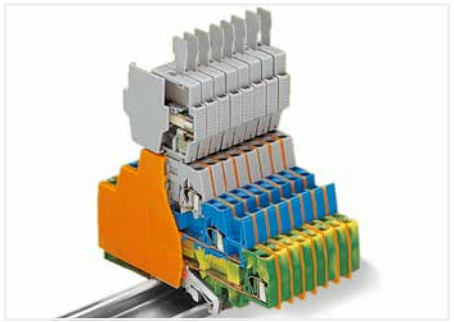
Approvals and corresponding ratings, visit www.wago.com



Double-deck (triple-deck) terminal blocks accommodate two (three) circuits of different potentials on two (three) decks; different circuits can be differentiated by color coding either deck (280 Series).
The lower deck is wider than the upper for ease of wiring.



When double-deck terminal blocks are used with a fuse plug (6 mm wide) in the receptacle (top) level, the extra width can be compensated for the 280 Series (5 mm wide) via an intermediate plate (1.1 mm thick). If required, this special intermediate plate still allows commoning on the lower level via push-in adjacent jumpers (280-402).



When triple-deck terminal blocks are used with a fuse plug (6 mm wide) in the receptacle (top) level, the extra width can be compensated for the 280 Series (5 mm wide) via an intermediate plate (1.1 mm thick).

Triple-deck terminal block; ground conductor/through/carrier terminal block for fuse plugs

Color	Item No.	Pack. Unit
green-yellow/blue/gray	280-510	50

Triple-deck terminal block; through/through/carrier terminal block for fuse plugs

gray/gray/gray	280-889	50

Accessories; item-specific

End and intermediate plate; 2.5 mm thick

orange	280-304	50 (25)
gray	280-303	50 (25)

Intermediate plate; 1.1 mm thick

orange	280-336	50 (25)

Adjacent jumper; insulated; I_N = I_N terminal block

gray	280-402	200 (25)

Alternate jumper; insulated; I_N = I_N terminal block

gray	280-409	100 (25)

Vertical jumper; insulated; I_N 24 A

gray	281-421	200 (25)

WSB marking card; for fuse plugs (281-5..); white; 4 mm wide WSB markers

F1, ..., F10 (10x)	209-787	5
F11, ..., F20 (10x)	209-700/209-124	5
F21, ..., F30 (10x)	209-700/209-125	5
F31, ..., F40 (10x)	209-700/209-126	5
F41, ..., F50 (10x)	209-700/209-127	5

Accessories

Appropriate marking system for fuse plugs:
WSB quick marking system

WSB marking card; white, 10 strips with 10 markers/card; 4 mm wide WSB markers

plain	209-701	5

WSB marking card; plain; 10 strips with 10 markers/card; 4 mm wide WSB markers

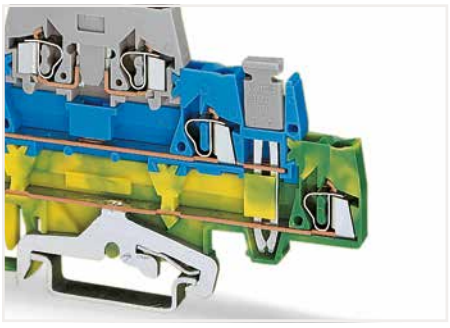
yellow	209-701/000-002	5
red	209-701/000-005	5
blue	209-701/000-006	5
gray	209-701/000-007	5
orange	209-701/000-012	5
light green	209-701/000-017	5
green	209-701/000-023	5
violet	209-701/000-024	5

Screwless end stop; for DIN-35 rail; 6 mm wide

gray	249-116	100 (25)

Screwless end stop; for DIN-35 rail; 10 mm wide

gray	249-117	50 (25)

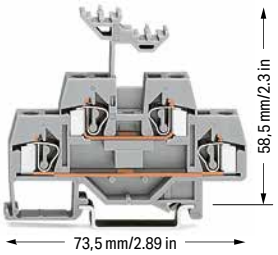


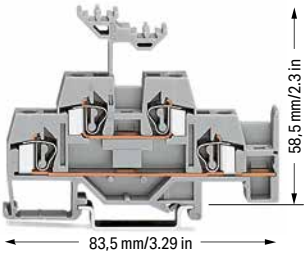
Grounding to DIN-rail:
Connecting N-level to ground level via vertical jumper.

Double-Deck Terminal Block
4 mm²; 281 Series

Technical Data	
0.08 … 4 mm²	28 … 12 AWG
500 V/6 kV/3 ❶	600 V, 20 A
I_N 26 A	600 V, 25 A
Terminal block width: 6 mm / 0.236 inch	
9 … 10 mm / 0.35 … 0.39 inch	

Technical Data	
0.08 … 4 mm²	28 … 12 AWG
500 V/6 kV/3 ❶	600 V, 20 A
I_N 26 A	600 V, 25 A
Terminal block width: 6 mm / 0.236 inch	
9 … 10 mm / 0.35 … 0.39 inch	





❶ 500 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

❷ Terminal blocks with a blue insulated housing are suitable for Ex i applications.

Please observe the application notes:
Insulation stop, page 346
Comb-style jumper bar, page 347
Marking, from page 588

Approvals and corresponding ratings, visit www.wago.com

5

Double-deck terminal block; through/through terminal block		
Color	Item No.	Pack. Unit
gray	281-619	50
blue	281-629 ❷	50

Double-deck terminal block; through/through terminal block; with slot for adjacent jumper		
Color	Item No.	Pack. Unit
gray	281-620	50
blue	281-630 ❷	50

Other terminal blocks with the same profile:		
Diode	281-633/281-410	Page 336
LED	281-634/281-434	Page 336

The flexible marker carrier, which is placed above the wiring level, can be pushed aside during wiring or commoning. The carrier has two staggered levels for WMB markers that perfectly align with the terminal block decks.

Accessories; item-specific			
End and intermediate plate; 2.5 mm thick			
	orange	281-341	100 (25)
	gray	281-340	100 (25)

Accessories; item-specific			
End and intermediate plate; 2.5 mm thick			
	orange	281-343	100 (25)
	gray	281-342	100 (25)

Accessories; 281 Series

Appropriate marking systems: WMB/WMB Inline

Insulation stop; 0.08 … 0.2 mm² "s" (0.14 mm² "f-st"); 5 pcs/strip			
	white	281-470	200 (25)

Insulation stop; 0.25 … 0.5 mm²; 5 pcs/strip			
	light gray	281-471	200 (25)

Insulation stop; 0.75 … 1.5 mm²; 5 pcs/strip			
	dark gray	281-472	200 (25)

Adjacent jumper; insulated; I_N = I_N terminal block			
	gray	281-402	200 (25)
	yellow-green	281-422	200 (25)

Alternate jumper; insulated; I_N = I_N terminal block			
	gray	281-409	100 (25)

Vertical jumper; insulated; I_N 24 A			
	gray	281-421	200 (25)

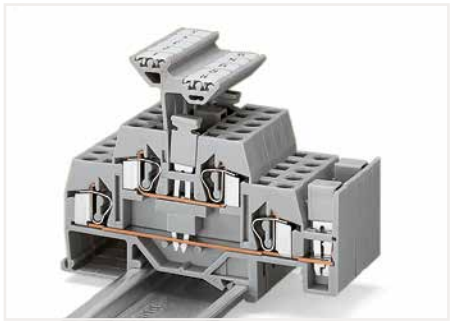
Comb-style jumper bar; insulated; I_N = I_N of terminal block			
	2-way	281-482	100 (25)
	3-way	281-483	100 (25)
	5-way	281-485	100 (25)
	10-way	281-490	50 (25)

Alternate comb-style jumper bar; insulated; I_N = I_N of terminal block			
	2-way	281-492	100 (25)

Operating tool; insulated			
	2-way	280-432	1
	3-way	280-433	1
	5-way	281-440	1

Screwless end stop; for DIN-35 rail; 6 mm wide			
	gray	249-116	100 (25)

Screwless end stop; for DIN-35 rail; 10 mm wide			
	gray	249-117	50 (25)

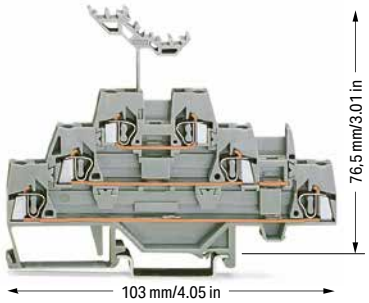


A vertical jumper allows commoning of upper and lower level, giving a 4-conductor commoned through terminal block in one housing. Two adjacent terminals may be commoned together on the same level using a push-in adjacent jumper.

Triple-Deck Terminal Block
2.5 mm²; 280 Series

5

Technical Data	
0.08 … 2.5 mm²	28 … 12 AWG*
500 V/6 kV/3 ❶	300 V, 15 A
I_N 20 A	300 V, 20 A
Terminal block width: 5 mm / 0.197 inch	
8 … 9 mm / 0.31 … 0.35 inch	



Triple-deck terminal block; through/through/through terminal block

Color	Item No.	Pack. Unit
gray	280-549	40
blue	280-551	40

Accessories; item-specific

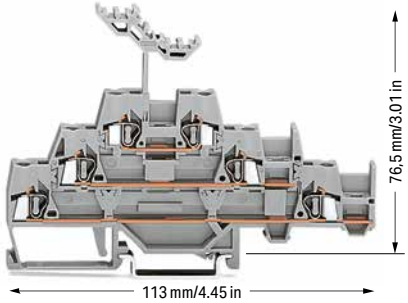
End and intermediate plate; 2.5 mm thick

orange	280-304	50 (25)
gray	280-303	50 (25)

Intermediate plate; 1.1 mm thick

orange	280-336	50 (25)

Technical Data	
0.08 … 2.5 mm²	28 … 12 AWG*
500 V/6 kV/3 ❶	300 V, 15 A
I_N 20 A	300 V, 20 A
Terminal block width: 5 mm / 0.197 inch	
8 … 9 mm / 0.31 … 0.35 inch	



Triple-deck terminal block; through/through/through terminal block; with slot for adjacent jumper on lower level

Color	Item No.	Pack. Unit
gray	280-550	40

Accessories; item-specific

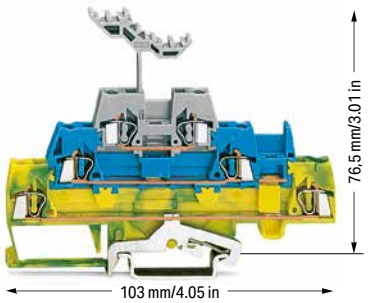
End and intermediate plate; 2.5 mm thick

orange	280-306	50 (25)
gray	280-305	50 (25)

Intermediate plate; 1.1 mm thick

orange	280-339	50 (25)

Technical Data	
0.08 … 2.5 mm²	28 … 12 AWG*
500 V/6 kV/3 ❶	
I_N 20 A	300 V, 20 A
Terminal block width: 5 mm / 0.197 inch	
8 … 9 mm / 0.31 … 0.35 inch	



Triple-deck terminal block; ground conductor/through/through terminal block

Color	Item No.	Pack. Unit
green-yellow/blue/gray	280-547	40
green-yellow/gray/gray	280-557	40

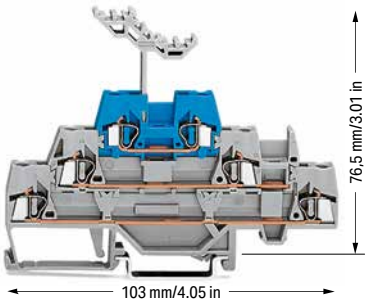
Accessories; item-specific

End and intermediate plate; 2.5 mm thick

orange	280-304	50 (25)
gray	280-303	50 (25)

Intermediate plate; 1.1 mm thick

orange	280-336	50 (25)



Triple-deck terminal block; through/through/through terminal block

Color	Item No.	Pack. Unit
gray/gray/blue	280-552	40

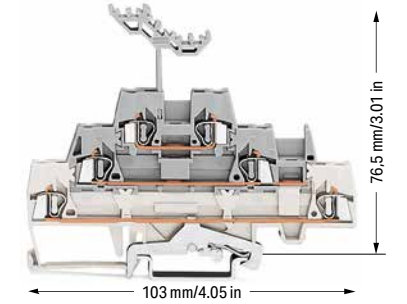
Accessories; item-specific

End and intermediate plate; 2.5 mm thick

orange	280-304	50 (25)
gray	280-303	50 (25)

Intermediate plate; 1.1 mm thick

orange	280-336	50 (25)



Triple-deck terminal block; shield conductor/through/through terminal block

Color	Item No.	Pack. Unit
white/gray/gray	280-548	40
white/blue/gray	280-558	40

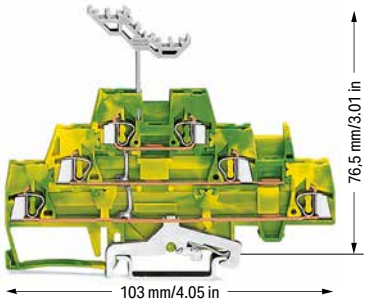
Accessories; item-specific

End and intermediate plate; 2.5 mm thick

orange	280-304	50 (25)
gray	280-303	50 (25)

Intermediate plate; 1.1 mm thick

orange	280-336	50 (25)



Triple-deck terminal block; 6-conductor ground terminal block; internally commoned

Color	Item No.	Pack. Unit
green-yellow	280-597	40

Accessories; item-specific

End and intermediate plate; 2.5 mm thick

orange	280-304	50 (25)
gray	280-303	50 (25)

Intermediate plate; 1.1 mm thick

orange	280-336	50 (25)

*12 AWG: THHN, THWN

❶ 500 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

Please observe the application notes:
Insulation stop, page 346
Comb-style jumper bar, page 347
Marking, from page 588

Approvals and corresponding ratings, visit www.wago.com

Accessories; 280 Series

Appropriate marking systems: WMB/WMB Inline

Insulation stop; 0.08 … 0.2 mm² "s" (0.14 mm² "f-st"); 5 pcs/strip

white	**280-470**	200 (25)

Insulation stop; 0.25 … 0.5 mm²; 5 pcs/strip

light gray	**280-471**	200 (25)

Insulation stop; 0.75 … 1 mm²; 5 pcs/strip

dark gray	**280-472**	200 (25)

Adjacent jumper; insulated; I_N = I_N terminal block

gray	**280-402**	200 (25)
yellow-green	**280-422**	200 (25)

Alternate jumper; insulated; I_N = I_N terminal block

gray	**280-409**	100 (25)

Vertical jumper; insulated; I_N 24 A

gray	**281-421**	200 (25)

Comb-style jumper bar; insulated; I_N = I_N of terminal block

2-way	**280-482**	200 (25)
3-way	**280-483**	200 (25)

Comb-style jumper bar; insulated; I_N = I_N of terminal block

10-way	**280-490**	50 (25)

Alternate comb-style jumper bar; insulated; I_N = I_N of terminal block

2-way	**280-492**	200 (25)

Operating tool; insulated

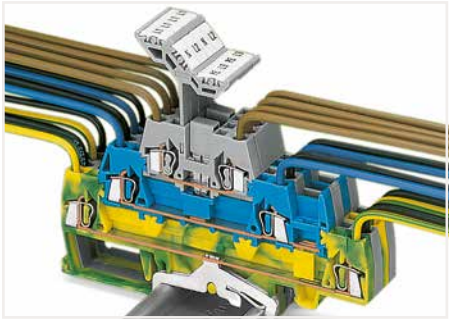
2-way	**280-432**	1
3-way	**280-433**	1

Operating tool; insulated

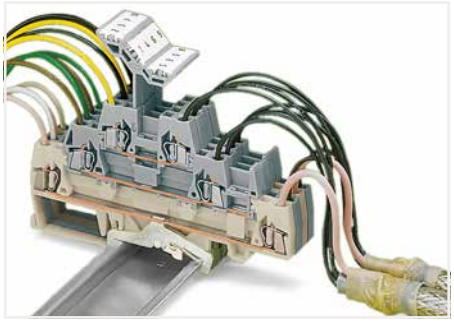
10-way	**280-440**	1

Screwless end stop; for DIN-35 rail; 6 mm wide

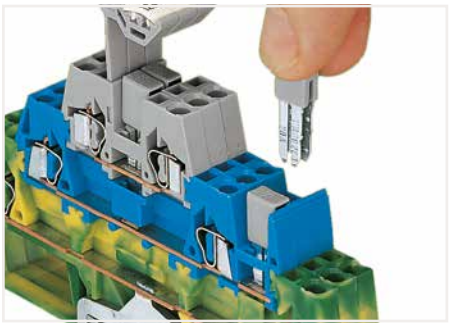
gray	**249-116**	100 (25)



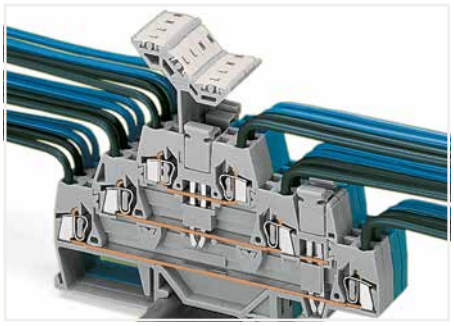
Three-conductor power circuit with additional branch circuit tapping



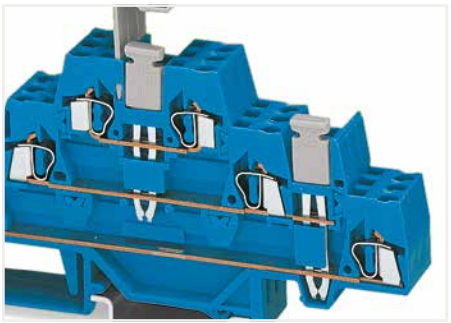
Shielded twisted pair cables



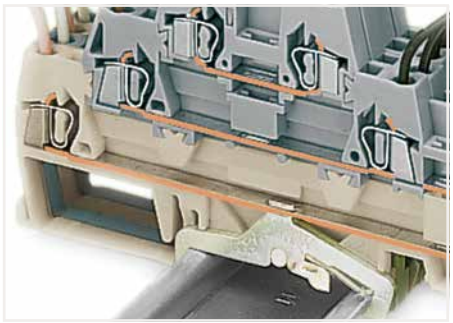
Triple-deck terminal blocks accommodate three circuits of different potentials on three decks; different circuits can be differentiated by color coding either deck (280 Series).



Commoning with vertical and adjacent jumpers.



A vertical jumper allows commoning of the upper and lower levels, providing a 6-conductor feedthrough terminal block in one housing. Two adjacent triple-deck terminal blocks may be commoned together on the same level using a push-in adjacent jumper.

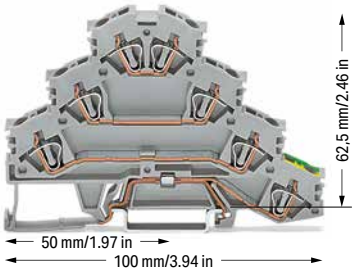


Both ground and shield conductor terminal blocks have a contact foot in the bottom level, automatically establishing direct contact to the DIN-rail or busbar.
The flexible marker carrier, which is placed above the wiring level, can be pushed aside during wiring. The carrier has two staggered levels for WMB markers that perfectly align with the terminal block decks.
With a terminal block width of just 5 mm, an effective width of just 1.67 mm for terminal blocks of same or different potentials can be realized for conductors ranging 0.08 mm² … 2.5 mm² (28 … 14 AWG).

5

Quadruple-Deck Rail-Mount Terminal Block for Electric Motor Wiring
4 mm²; 281 Series

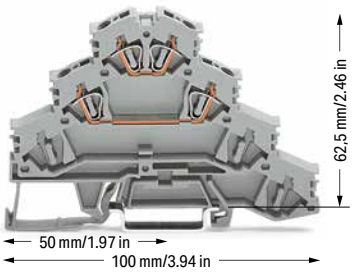
Technical Data	
0.08 … 4 mm²	28 … 12 AWG
400 V/6 kV/3 ❶	600 V, 20 A
I_N 20 A (2.5 mm²)	300 V, 25 A
I_N 25 A (4 mm²)	
Terminal block width: 6 mm / 0.236 inch	
8 … 9 mm / 0.31 … 0.35 inch	



Quadruple-deck rail-mount terminal block; Rail-mount terminal block for electric motor wiring; gray

	Item No.	Pack. Unit
L1 - L2 - L3 - PE	281-530	50

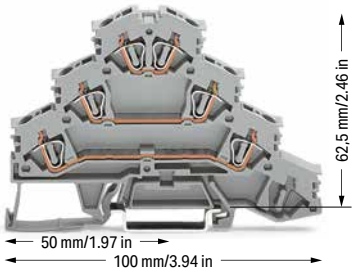
Technical Data	
0.08 … 4 mm²	28 … 12 AWG
400 V/6 kV/3 ❶	600 V, 20 A
I_N 20 A (2.5 mm²)	300 V, 25 A
I_N 25 A (4 mm²)	
Terminal block width: 6 mm / 0.236 inch	
8 … 9 mm / 0.31 … 0.35 inch	



Quadruple-deck rail-mount terminal block; Rail-mount terminal block for electric motor wiring; gray

	Item No.	Pack. Unit
L1 - L2	281-531	50

Technical Data	
0.08 … 4 mm²	28 … 12 AWG
400 V/6 kV/3 ❶	600 V, 20 A
I_N 20 A (2.5 mm²)	300 V, 25 A
I_N 25 A (4 mm²)	
Terminal block width: 6 mm / 0.236 inch	
8 … 9 mm / 0.31 … 0.35 inch	



Quadruple-deck rail-mount terminal block; Rail-mount terminal block for electric motor wiring; gray

	Item No.	Pack. Unit
L1 - L2 - L3	281-532	50

5

Accessories; 281 Series

Appropriate marking systems: WMB/Marking strips

End and intermediate plate; 1 mm thick

orange	281-366	100 (25)
gray	281-365	100 (25)

white	281-470	200 (25)

Insulation stop; 0.25 … 0.5 mm²; 5 pcs/strip

light gray	281-471	200 (25)

Insulation stop; 0.75 … 1.5 mm²; 5 pcs/strip

dark gray	281-472	200 (25)

Comb-style jumper bar; insulated; I_N = I_N of terminal block

2-way	281-482	100 (25)
3-way	281-483	100 (25)
5-way	281-485	100 (25)
10-way	281-490	50 (25)

Alternate comb-style jumper bar; insulated; I_N = I_N of terminal block

2-way	281-492	100 (25)

Operating tool; insulated

2-way	280-432	1
3-way	280-433	1
5-way	281-440	1

Test plug; with 500 mm cable; 2 mm Ø; max. 42 V

red	210-137	50

Test plug; with 500 mm cable; 2.3 mm Ø; max. 42 V

yellow	210-137	50

Marking strip; plain; 7.5 mm wide; 50 m reel

transluscent	709-177	1

WMB marking card; white; 10 strips with 10 markers/card; stretchable 5 … 5.2 mm

plain	793-5501	5

WMB marking card; plain; 10 strips with 10 markers/card; stretchable 5 … 5.2 mm

yellow	793-5501/000-002	5
red	793-5501/000-005	5
blue	793-5501/000-006	5
gray	793-5501/000-007	5
orange	793-5501/000-012	5
light green	793-5501/000-017	5
green	793-5501/000-023	5
violet	793-5501/000-024	5

Screwless end stop; for DIN-35 rail; 6 mm wide

gray	249-116	100 (25)

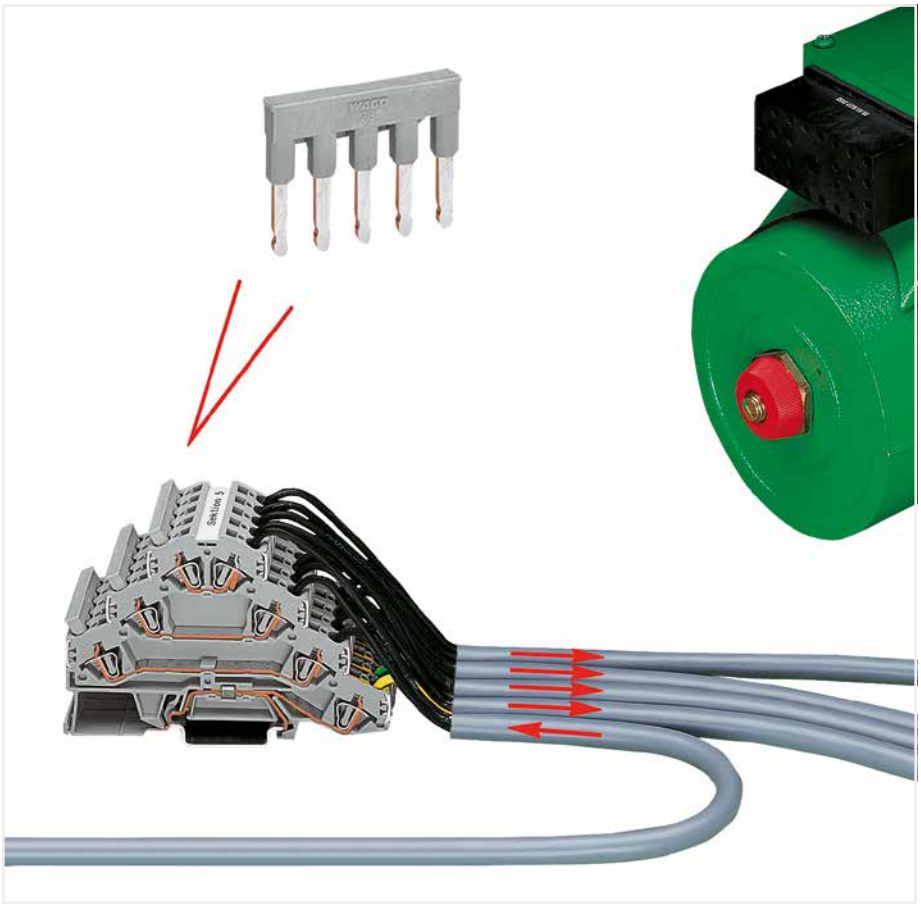
Screwless end stop; for DIN-35 rail; 10 mm wide

gray	249-117	50 (25)

❶ 400 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

Please observe the application notes:
Insulation stop, page 346
Comb-style jumper bar, page 347
Marking, from page 588

Approvals and corresponding ratings,
visit www.wago.com



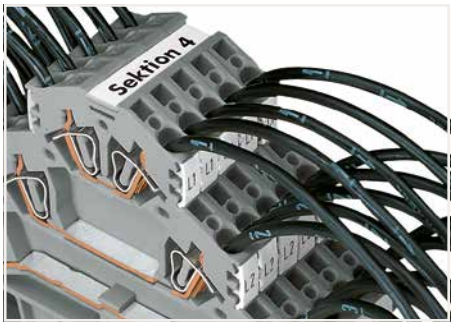
In addition to rail-mount terminal blocks for electric motor wiring, special versions are also available:
- Version **without** ground contact and only two potentials:

These terminal blocks were custom designed to support additional functions, such as engine brakes or temperature sensors. Sharing a common profile, this terminal block version can be put next to the appropriate electric motor wiring terminal block without using intermediate plates. That makes the rail assembly easier to understand and wire. This also prevents wiring errors as no conductor entry is unused.
- Version **without** ground contact and with three potentials:

Clearly designated clamping units are the primary advantage to this terminal block design. When using devices with protective insulation, for example, there are no open ground clamping units that could create confusion.

Commoning using comb-style jumper bars.
Push comb-style jumper bars down until fully inserted.

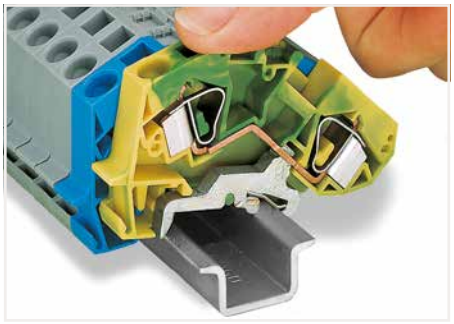
Testing with voltage tester.



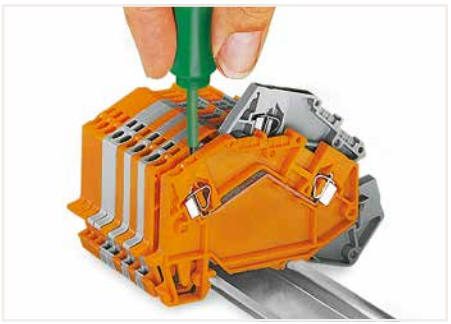
Marking clamping points via WMB Multi Marking System.
Marking groups via marking strips (709-177).

CAGE CLAMP®

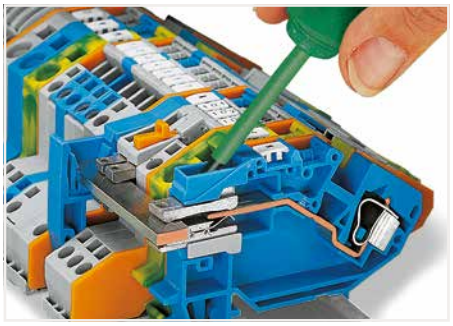
Rail-Mount Terminal Blocks TOPJOB® Classic
780 … 785 Series
Description and Installation



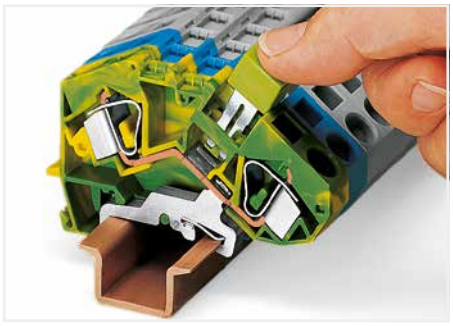
By snapping a ground conductor terminal block onto the DIN-rail, a direct electrical connection is automatically made to the rail.



Removing a terminal block from the assembly.

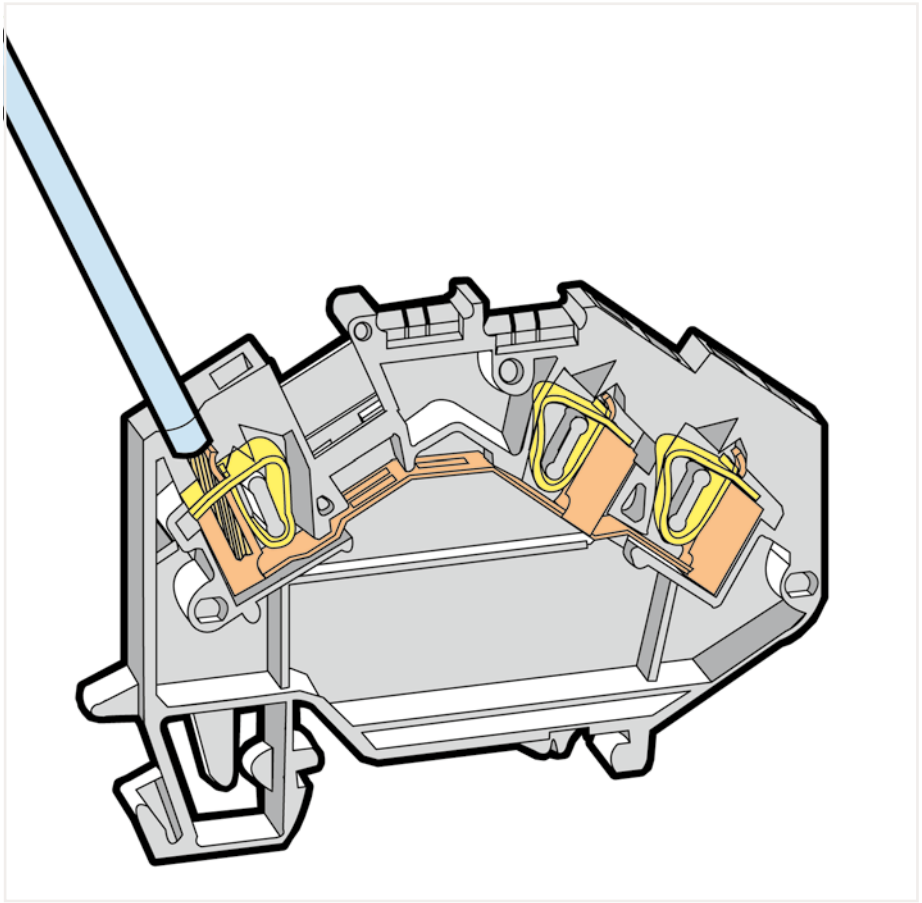


Operating an N-disconnect slide link.



Commoning ground conductor terminal blocks with through terminal blocks is possible in one direction only (via rear side of terminal block) using adjacent jumpers. Recommends using yellow-green adjacent jumpers in addition to the required marking of these blocks.

Staggered jumpers for sophisticated circuit requirements – push jumpers down until fully inserted.



Test plug module assembly –
combining test plug and spacer modules.

Insulation stop:
Prevents the conductor insulation from being pushed into the clamping unit.
(Available for terminal blocks up to 4 mm²/12 AWG)

Labeling via WMB Multi markers and WFB continuous marking strips.

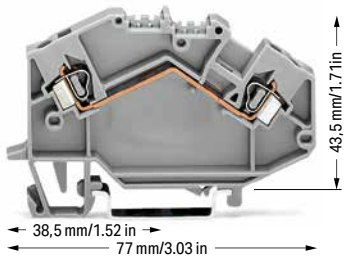
For aluminum conductors, see notes in Section 14. With ferruled conductors, it is necessary to use a terminal block one size larger than the conductor's nominal cross section.

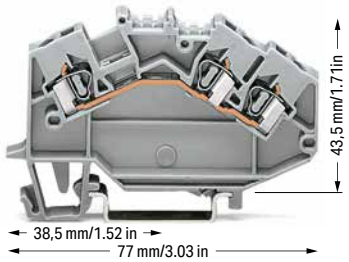
CAGE CLAMP®

Through/Ground Conductor/Shield Conducto and Ex Terminal Block TOPJOB® Classic
2.5 mm²; 780 Series

Technical Data	
0.08 … 2.5 mm²	28 … 12 AWG*
1000 V/8 kV/3 ❶	600 V, 20 A
I_N 24 A	600 V, 20 A
Terminal block width: 5 mm / 0.197 inch	
8 … 9 mm / 0.31 … 0.35 inch	

Technical Data	
0.08 … 2.5 mm²	28 … 12 AWG*
1000 V/8 kV/3 ❶	600 V, 20 A
I_N 24 A	600 V, 25 A
Terminal block width: 5 mm / 0.197 inch	
8 … 9 mm / 0.31 … 0.35 inch	





*12 AWG: THHN, THWN

❶ 1000 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

❷ Terminal blocks with a blue insulated housing are suitable for Ex i applications.

❸ Terminal blocks with an Ex mark are suitable for Ex e II applications.
0.2 … 2.5 mm² / 24 … 12 AWG*
690 V; 23 A
(see Section 14)
Using staggered jumpers reduces the maximum rated voltage to 275 V.

Please observe the application notes:
Insulation stop, page 346
Jumpers, from page 348
Comb-style jumper bar, page 347
Testing accessories, from page 342
Marking, from page 588

Approvals and corresponding ratings, visit www.wago.com

2-conductor through terminal block

Color	Item No.	Pack. Unit
gray	780-601	50
blue	780-604 ❷	50
orange	780-602	50
light gray	780-992 ❸	50

3-conductor through terminal block

Color	Item No.	Pack. Unit
gray	780-631	50
blue	780-651 ❷	50
orange	780-654	50
light gray	780-993 ❸	50

2-conductor ground terminal block

green-yellow	780-607	50
green-yellow	780-607/999-950 ❸	50

3-conductor ground terminal block

green-yellow	780-637	50
green-yellow	780-637/999-950 ❸	50

3-conductor shield terminal block

white	780-640	50

Other terminal blocks with the same profile:

N-disconnect	780-613	Page 271

Accessories; 780 Series

Appropriate marking systems: WMB/WMB Inline/WFB

End and intermediate plate; 1.5 mm thick

orange	780-317	100 (25)

Ex e/Ex i separator; orange; 3 mm thick

125.5 mm	209-192	50 (25)

Insulation stop; 0.08 … 0.2 mm² "s" (0.14 mm² "f-st"); 5 pcs/strip

white	280-470	200 (25)

Insulation stop; 0.25 … 0.5 mm²; 5 pcs/strip

light gray	280-471	200 (25)

Insulation stop; 0.75 … 1 mm²; 5 pcs/strip

dark gray	280-472	200 (25)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks

yellow	280-415	100 (25)

Adjacent jumper; insulated; I_N = I_N terminal block

gray	280-402	200 (25)
yellow-green	280-422	200 (25)

Alternate jumper; insulated; I_N = I_N terminal block

gray	280-409	100 (25)

Staggered jumper; insulated; 5 mm wide; I_N 24 A

1 to 2	780-452	100 (25)
1 to 3	780-453	100 (25)
1 to 4	780-454	100 (25)
1 to 5	780-455	50 (25)
1 to 6	780-456	50 (25)
1 to 7	780-457	50 (25)
1 to 8	780-458	50 (25)

Push-in type wire jumper; insulated; 0.75 mm² conductor cross section; I_N 9 A

L = 60 mm	249-125	100 (10)
L = 110 mm	249-126	100 (10)
L = 250 mm	249-127	100 (10)

Comb-style jumper bar; insulated; I_N = I_N of terminal block

2-way	280-482	200 (25)
3-way	280-483	200 (25)
10-way	280-490	50 (25)

Alternate comb-style jumper bar; insulated; I_N = I_N of terminal block

2-way	280-492	200 (25)

Operating tool; insulated

2-way	280-432	1
3-way	280-433	1
10-way	280-440	1

Accessories; 780 Series

Appropriate marking systems: WMB/WMB Inline/WFB

Test plug module; snaps together; 5 mm wide

gray	280-418	100 (25)

Spacer module; snaps together; 5 mm wide

gray	280-419	100 (25)

Test plug adapter; 8.3 mm wide; for 4 mm Ø test plug; for 1.5 … 10 mm² terminal blocks

gray	209-170	50 (25)

Banana plug; for 4 mm socket diameter; color mixed; 10 x orange, white, black, blue, yellow; max. 42 V

	215-111	50

Test plug adapter; 5 mm wide; for 210-137 Test Plug (2.3 mm Ø); for 1.5 … 4 mm² terminal blocks

gray	280-404	100 (25)

Test plug adapter; 6 mm wide; with CAGE CLAMP®; for 0.08 … 2.5 mm²

I_N 24 A	281-407	100 (25)

Test plug; with 500 mm cable; 2.3 mm Ø; max. 42 V

yellow	210-137	50

Operating tool; specialty blade; for all TOPJOB® terminal blocks

	777-310	1

Screwless end stop; for DIN-35 rail; 6 mm wide

gray	249-116	100 (25)

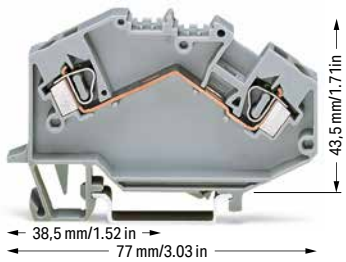
5

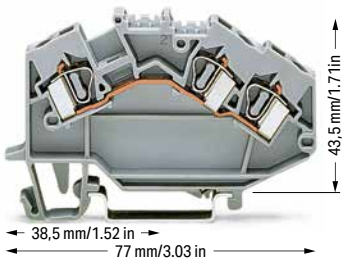
CAGE CLAMP®

Through/Ground Conductor and Ex Terminal Block TOPJOB® Classic
4 mm²; 781 Series

Technical Data	
0.08 … 4 mm²	28 … 12 AWG
1000 V/8 kV/3 ❶	600 V, 20 A
I_N 32 A	600 V, 20 A
Terminal block width: 6 mm / 0.236 inch	
9 … 10 mm / 0.35 … 0.39 inch	

Technical Data	
0.08 … 4 mm²	28 … 12 AWG
1000 V/8 kV/3 ❶	600 V, 20 A
I_N 32 A	600 V, 20 A
Terminal block width: 6 mm / 0.236 inch	
9 … 10 mm / 0.35 … 0.39 inch	





❶ 1000 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

❷ Terminal blocks with a blue insulated housing are suitable for Ex i applications.

❸ Terminal blocks with an Ex mark are suitable for Ex e II applications.
0.2 … 4 mm² / 24 … 12 AWG
690 V
30 A, for 2-conductor terminal blocks
27 A, for 3-conductor terminal blocks
(see Section 14)
Using staggered jumpers reduces the maximum rated voltage to 275 V.

Please observe the application notes:
Insulation stop, page 346
Jumpers, from page 348
Comb-style jumper bar, page 347
Testing accessories, from page 342
Marking, from page 588

Approvals and corresponding ratings, visit www.wago.com

5

2-conductor through terminal block

Color	Item No.	Pack. Unit
gray	781-601	50
blue	781-604 ❷	50
light gray	781-992 ❸	50

3-conductor through terminal block

Color	Item No.	Pack. Unit
gray	781-631	50
blue	781-651 ❷	50
light gray	781-993 ❸	50

2-conductor ground terminal block

green-yellow	781-607	50
green-yellow	781-607/999-950 ❸	50

3-conductor ground terminal block

green-yellow	781-637	50
green-yellow	781-637/999-950 ❸	50

Other terminal blocks with the same profile:

N-disconnect	781-613	Page 271
Potential	781-623	Page 271

Other terminal blocks with the same profile:

N-disconnect	781-643	Page 271
Potential	781-653	Page 271

Accessories; 781 Series

Appropriate marking systems: WMB/WMB Inline/WFB

End and intermediate plate; 1.5 mm thick

orange	780-317	100 (25)

Ex e/Ex i separator; orange; 3 mm thick

125.5 mm	209-192	50 (25)

Insulation stop; 0.08 … 0.2 mm² "s" (0.14 mm² "f-st"); 5 pcs/strip

white	281-470	200 (25)

Insulation stop; 0.25 … 0.5 mm²; 5 pcs/strip

light gray	281-471	200 (25)

Insulation stop; 0.75 … 1.5 mm²; 5 pcs/strip

dark gray	281-472	200 (25)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks

yellow	281-415	100 (25)

Adjacent jumper; insulated; I_N = I_N terminal block

gray	281-402	200 (25)
yellow-green	281-422	200 (25)

Alternate jumper; insulated; I_N = I_N terminal block

gray	281-409	100 (25)

Staggered jumper; insulated; 6 mm wide; I_N 32 A

1 to 2	781-452	100 (25)
1 to 3	781-453	100 (25)
1 to 4	781-454	100 (25)
1 to 5	781-455	50 (25)
1 to 6	781-456	50 (25)

Push-in type wire jumper; insulated; 0.75 mm² conductor cross section; I_N 9 A

L = 60 mm	249-125	100 (10)
L = 110 mm	249-126	100 (10)
L = 250 mm	249-127	100 (10)

Comb-style jumper bar; insulated; I_N = I_N of terminal block

2-way	281-482	100 (25)
3-way	281-483	100 (25)
5-way	281-485	100 (25)
10-way	281-490	50 (25)

Alternate comb-style jumper bar; insulated; I_N = I_N of terminal block

2-way	281-492	100 (25)

Operating tool; insulated

2-way	280-432	1
3-way	280-433	1
5-way	281-440	1

Accessories; 781 Series

Appropriate marking systems: WMB/WMB Inline/WFB

Test plug module; snaps together; 6 mm wide

gray	280-418	100 (25)

Spacer module; snaps together; 5 mm wide

gray	280-419	100 (25)

Test plug adapter; 8.3 mm wide; for 4 mm Ø test plug; for 1.5 … 10 mm² terminal blocks

gray	209-170	50 (25)

Banana plug; for 4 mm socket diameter; color mixed; 10 x orange, white, black, blue, yellow; max. 42 V

	215-111	50

Test plug adapter; 5 mm wide; for 210-137 Test Plug (2.3 mm Ø); for 1.5 … 4 mm² terminal blocks

gray	280-404	100 (25)

Test plug adapter; 6 mm wide; with CAGE CLAMP®; for 0.08 … 2.5 mm²

I_N 24 A	281-407	100 (25)

Test plug; with 500 mm cable; 2.3 mm Ø; max. 42 V

yellow	210-137	50

Operating tool; specialty blade; for all TOPJOB® terminal blocks

	777-310	1

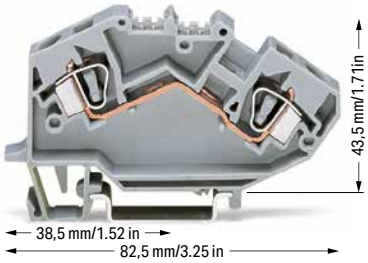
Screwless end stop; for DIN-35 rail; 6 mm wide

gray	249-116	100 (25)

CAGE CLAMP®

Through/Ground Conductor and Ex Terminal Block TOPJOB® Classic
6 mm²; 782 Series and 10 (16) mm²; 784 Series

Technical Data	
0.2 … 6 mm²	24 … 10 AWG
1000 V/8 kV/3 ❷	600 V, 30 A
I_N 41 A	600 V, 25 A
Terminal block width: 8 mm / 0.315 inch	
12 … 13 mm / 0.47 … 0.51 inch	



2-conductor through terminal block		
Color	Item No.	Pack. Unit
gray	782-601	25
blue	782-604 ❸	25
light gray	782-992 ❹	50

2-conductor ground terminal block		
green-yellow	782-607	25
green-yellow	782-607/999-950 ❹	25

Other terminal blocks with the same profile:		
N-disconnect	782-613	Page 272
Potential	782-623	Page 272

Accessories; item-specific

Adjacent jumper; insulated; I_N 41 A

gray	282-402	100 (25)
yellow-green	282-422	100 (25)

Alternate jumper; insulated; I_N 41 A

gray	282-409	100 (25)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks

yellow	282-415	100 (25)

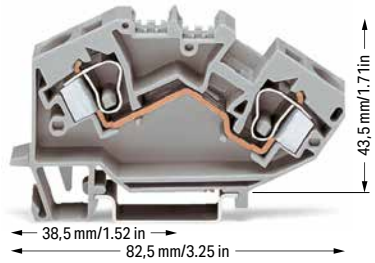
B-type test plug module; snaps together; 8 mm wide

gray	709-310	100 (25)

B-type spacer module; snaps together; 8 mm wide

gray	709-311	100 (25)

Technical Data	
0.2 … 10 (16) mm² ❶	24 … 6 AWG
1000 V/8 kV/3 ❷	600 V, 50 A
I_N 57 A	600 V, 35 A
Terminal block width: 10 mm / 0.394 inch	
12 … 13 mm / 0.47 … 0.51 inch	



2-conductor through terminal block		
Color	Item No.	Pack. Unit
gray	784-601	25
blue	784-604 ❸	25
light gray	784-992 ❺	25

2-conductor ground terminal block		
green-yellow	784-607	25
green-yellow	784-607/999-950 ❺	25

Other terminal blocks with the same profile:		
N-disconnect	784-613	Page 272
Potential	784-623	Page 272

Accessories; item-specific

Adjacent jumper; insulated; I_N 57 A

gray	284-402	100 (25)
yellow-green	284-422	100 (25)

Alternate jumper; insulated; I_N 57 A

orange	284-409	50 (25)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks

yellow	284-415	50 (25)

B-type test plug module; snaps together; 8 mm wide

gray	709-310	100 (25)

B-type spacer module; snaps together; 8 mm wide

gray	709-311	100 (25)

B-type spacer plate; snaps together; 2 mm wide

gray	709-312	100 (25)

Finger guard; touch-proof cover protects unused conductor entries

yellow	284-400	100 (25)

❶ Max. conductor cross section: 16 mm²

❷ 1000 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

❸ Terminal blocks with a blue insulated housing are suitable for Ex i applications.

❹ Terminal blocks with an Ex mark are suitable for Ex e II applications.
0.2 … 6 mm² / 24 … 10 AWG
690 V; 39 A
(see Section 14)

❺ Terminal blocks with an Ex mark are suitable for Ex e II applications.
0.2 … 10 mm²/24 … 8 AWG
690 V; 53 A
(see Section 14)

Please observe the application notes:
Test plug module, page 345
Marking, from page 588

Approvals and corresponding ratings, visit www.wago.com

5

Accessories

Appropriate marking systems:
WMB/WMB Inline/WFB

End and intermediate plate; 1.5 mm thick

orange	782-317	100 (25)

Ex e/Ex i separator; orange; 3 mm thick

125.5 mm	209-192	50 (25)

Test plug adapter; 8.3 mm wide; for 4 mm Ø test plug; for 1.5 … 10 mm² terminal blocks

gray	209-170	50 (25)

Banana plug; for 4 mm socket diameter; color mixed; 10 x orange, white, black, blue, yellow; max. 42 V

	215-111	50

Busbar carrier; with end stop function and detachable separator plate; snaps onto DIN-35 rail; 8 mm thick

blue	777-305	25

WFB continuous marking strip; 1000 mm long

transparent	210-612	10

Carrier for WFB continuous marking strip; snaps into marker slot

gray	209-185	200 (25)

Operating tool; specialty blade; for all TOPJOB® terminal blocks

	777-310	1

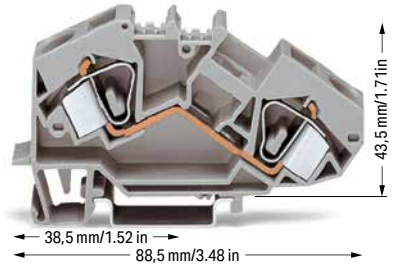
Screwless end stop; for DIN-35 rail; 6 mm wide

gray	249-116	100 (25)

CAGE CLAMP®

Through/Ground Conductor and Ex Terminal Block TOPJOB® Classic
16 mm²; 783 Series and 35 mm²; 785 Series

Technical Data	
0.2 … 16 mm²	24 … 6 AWG
1000 V/8 kV/3 ❶	600 V, 65 A
I_N 76 A	600 V, 50 A
Terminal block width: 12 mm / 0.472 inch	
16 … 17 mm / 0.63 … 0.67 inch	



2-conductor through terminal block		
Color	Item No.	Pack. Unit
gray	783-601	25
blue	783-604 ❷	25
light gray	783-992 ❸	25

2-conductor ground terminal block		
green-yellow	783-607	25
green-yellow	783-607/999-950 ❸	25

Other terminal blocks with the same profile:		
N-disconnect	783-613	Page 272
Potential	783-623	Page 272

Accessories; item-specific

End and intermediate plate; 1.5 mm thick

orange 783-317 100 (25)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks

yellow 283-415 50 (25)

Finger guard; touch-proof cover protects unused conductor entries

yellow 283-400 100 (25)

Adjacent jumper; insulated; I_N 70 A

gray 283-402 100 (25)
yellow-green 283-422 100 (25)

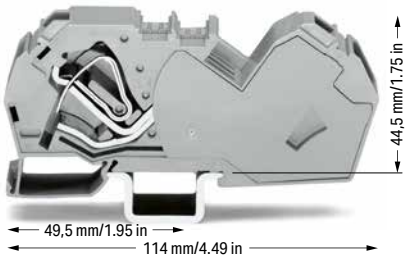
Alternate jumper; insulated; I_N 76 A

gray 283-409 100 (25)

Power tap; IN 24 A; with 500 mm cable; for 16 mm² (283/783 Series) and 35 mm² (285/785 Series) rail-mount terminal blocks

gray 283-407 25

Technical Data	
6 … 35 mm²	8 … 2 AWG
1000 V/8 kV/3 ❶	600 V, 115 A
I_N 125 A	600 V, 125 A
Terminal block width: 16 mm / 0.63 inch	
23 mm / 0.91 inch	



2-conductor through terminal block		
Color	Item No.	Pack. Unit
gray	785-601	25
blue	785-604	25

2-conductor ground terminal block		
green-yellow	785-607	25

Other terminal blocks with the same profile:		
N-disconnect	785-613	Page 273
Potential	785-623	Page 273

Accessories; item-specific

Adjacent jumper; insulated; I_N 85 A

gray 284-402 50 (25)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks

yellow 285-416 50 (25)

Finger guard; touch-proof cover protects unused conductor entries

yellow 285-401 100

Power tap; IN 24 A; with 500 mm cable; for 16 mm² (283/783 Series) and 35 mm² (285/785 Series) rail-mount terminal blocks

gray 283-407 25

❶ 1000 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

❸ Terminal blocks with a blue insulated housing are suitable for Ex i applications.

❹ Terminal blocks with an Ex mark are suitable for Ex e II applications.
0.2 … 6 mm² / 24 … 10 AWG
690 V; 39 A
(see Section 14)

❺ Terminal blocks with an Ex mark are suitable for Ex e II applications.
0.2 … 10 mm²/24 … 8 AWG
690 V; 53 A
(see Section 14)

Please observe the application notes:
Marking, from page 588

Approvals and corresponding ratings, visit www.wago.com

Accessories

Appropriate marking systems:
WMB/WMB Inline/WFB

Test plug adapter; 8.3 mm wide; for 4 mm Ø test plug; for 1.5 … 10 mm² terminal blocks

gray 283-404 25

Banana plug; for 4 mm socket diameter; color mixed; 10 x orange, white, black, blue, yellow; max. 42 V

215-111 50

Busbar carrier; with end stop function and detachable separator plate; snaps onto DIN-35 rail; 8 mm thick

blue 777-305 25

WFB continuous marking strip; 1000 mm long

transparent 210-612 10

Carrier for WFB continuous marking strip; snaps into marker slot

gray 209-185 200 (25)

WMB marking card; white; 10 strips with 10 markers/card; for 5 … 17.5 mm terminal block width

plain 793-501 5

WMB marking card; white; 10 strips with 10 markers/card; stretchable 5 … 5.2 mm

plain 793-5501 5

Operating tool; specialty blade; for all TOPJOB® terminal blocks

777-310 1

Screwless end stop; for DIN-35 rail; 6 mm wide

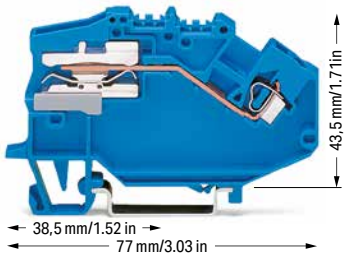
gray 249-116 100 (25)

CAGE CLAMP®

N-Disconnect Terminal Block and Power Distribution Disconnect Terminal Block TOPJOB® Classic

2.5 mm²; 780 Series and 4 mm²; 781 Series

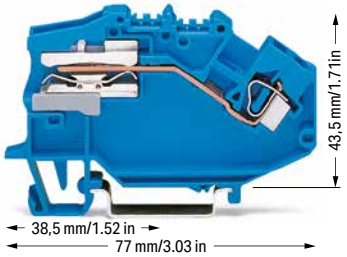
Technical Data	
0.08 … 2.5 mm²	28 … 12 AWG*
400 V/6 kV/3 ❶	600 V, 20 A
I_N 24 A	
Terminal block width: 5 mm / 0.197 inch	
8 … 9 mm / 0.31 … 0.35 inch	



1-conductor N-disconnect terminal block		
Color	Item No.	Pack. Unit
blue	780-613 ❷	50

Other terminal blocks with the same profile:		
Through	780-601	Page 267

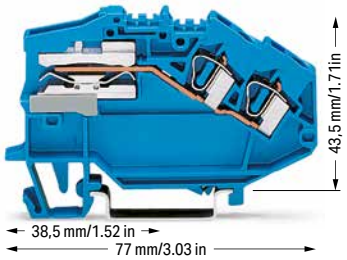
Technical Data	
0.08 … 4 mm²	28 … 12 AWG
400 V/6 kV/3 ❶	600 V, 20 A
I_N 32 A	
Terminal block width: 6 mm / 0.236 inch	
9 … 10 mm / 0.35 … 0.39 inch	



1-conductor N-disconnect terminal block		
Color	Item No.	Pack. Unit
blue	781-613 ❷	50

1-conductor power distribution disconnect terminal block		
gray	781-623 ❸	50

Other terminal blocks with the same profile:		
Through	781-601	Page 268



2-conductor N-disconnect terminal block		
Color	Item No.	Pack. Unit
blue	781-643 ❷	50

2-conductor power distribution disconnect terminal block		
gray	781-653 ❸	50

Other terminal blocks with the same profile:		
Through	781-631	Page 268

*12 AWG: THHN, THWN

❶ 400 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

❷ See page 273

❸ See page 273

Approvals and corresponding ratings, visit www.wago.com

Accessories

Appropriate marking systems: WMB/WMB Inline/WFB

End and intermediate plate; 1.5 mm thick

orange | 780-317 | 100 (25)

Busbar carrier; not suitable as an end stop; snaps onto DIN-35 rail; 1.5 mm thick

blue | 780-321 | 100 (25)

Busbar carrier; with end stop function and detachable separator plate; snaps onto DIN-35 rail; 8 mm thick

blue | 777-305 | 25

Busbar; tin-plated; 1000 mm long; copper (10 x 3) mm

I_N 140 A | 210-133 | 1

Busbar cover; 1000 mm long

transparent | 777-303 | 1

Connector; for busbar; with blue cover; 2.5 … 16 mm²

blue | 210-281 | 100 (50)

Connector; for busbar; 2.5 … 35 mm²

unplated | 209-105 | 50

Lock-out; prevents reclosing of slide link; snap-on type

orange | 777-300 | 100 (25)

Step-down test plug; from 4 mm socket to 2 mm plug; max. 42 V

red | 210-297 | 100 (25)

Test plug; with 500 mm cable; 2.3 mm Ø; max. 42 V

yellow | 210-137 | 50

Operating tool; specialty blade; for all TOPJOB® terminal blocks

777-310 | 1

Screwless end stop; for DIN-35 rail; 6 mm wide

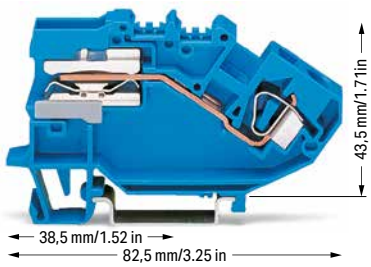
gray | 249-116 | 100 (25)

5

N-Disconnect Terminal Block and Power Distribution Disconnect Terminal Block TOPJOB® Classic

6 mm²; 782 Series and 10 (16) mm²; 784 Series and 16 mm²; 783 Series and 35 mm²; 785 Series

Technical Data	
0.2 … 6 mm²	24 … 10 AWG
400 V/6 kV/3 ❷	600 V, 30 A
I_N 41 A	
Terminal block width: 8 mm / 0.315 inch	
12 … 13 mm / 0.47 … 0.51 inch	



1-conductor N-disconnect terminal block		
Color	Item No.	Pack. Unit
blue	782-613	25

1-conductor power distribution disconnect terminal block		
gray	782-623	25

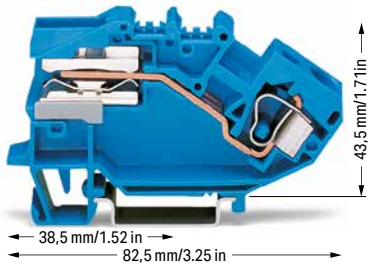
Other terminal blocks with the same profile:		
Through	782-601	Page 269

Accessories; item-specific

Busbar carrier; not suitable as an end stop; snaps onto DIN-35 rail; 1.5 mm thick

blue 782-321 100 (25)

Technical Data	
0.2 … 10 (16) mm² ❶	24 … 6 AWG
400 V/6 kV/3 ❷	
I_N 57 A	
Terminal block width: 10 mm / 0.394 inch	
12 … 13 mm / 0.47 … 0.51 inch	



1-conductor N-disconnect terminal block		
Color	Item No.	Pack. Unit
blue	784-613	25

1-conductor power distribution disconnect terminal block		
gray	784-623	25

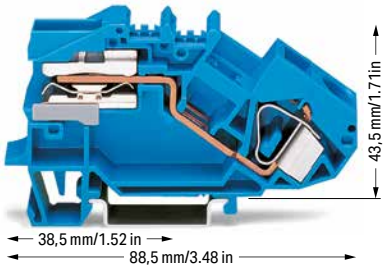
Other terminal blocks with the same profile:		
Through	784-601	Page 269

Accessories; item-specific

Busbar carrier; not suitable as an end stop; snaps onto DIN-35 rail; 1.5 mm thick

blue 782-321 100 (25)

Technical Data	
0.2 … 16 mm²	24 … 6 AWG
400 V/6 kV/3 ❷	600 V, 65 A
I_N 68 A	
Terminal block width: 12 mm / 0.472 inch	
16 … 17 mm / 0.63 … 0.67 inch	



1-conductor N-disconnect terminal block		
Color	Item No.	Pack. Unit
blue	783-613	25

1-conductor power distribution disconnect terminal block		
gray	783-623	25

Other terminal blocks with the same profile:		
Through	783-601	Page 270

Accessories; item-specific

Busbar carrier; not suitable as an end stop; snaps onto DIN-35 rail; 1.5 mm thick

blue 783-321 100 (25)

Accessories

Appropriate marking systems: WMB/WMB Inline/WFB

Busbar carrier; with end stop function and detachable separator plate; snaps onto DIN-35 rail; 8 mm thick

blue 777-305 25

Busbar; tin-plated; 1000 mm long; copper (10 x 3) mm

I_N 140 A 210-133 1

Busbar cover; 1000 mm long

transparent 777-303 1

Connector; for busbar; with blue cover; 2.5 … 16 mm²

blue 210-281 100 (50)

Connector; for busbar; 2.5 … 35 mm²

unplated 209-105 50

Lock-out; prevents reclosing of slide link; snap-on type

orange 782-300 100 (25)

Step-down test plug; from 4 mm socket to 2 mm plug; max. 42 V

red 210-297 100 (25)

Test plug; with 500 mm cable; 2.3 mm Ø; max. 42 V

yellow 210-137 50

WMB marking card; white; 10 strips with 10 markers/card; for 5 … 17.5 mm terminal block width

plain 793-501 5

WMB marking card; white; 10 strips with 10 markers/card; stretchable 5 … 5.2 mm

plain 793-5501 5

WFB continuous marking strip; 1000 mm long

transparent 210-612 10

Carrier for WFB continuous marking strip; snaps into marker slot

gray 209-185 200 (25)

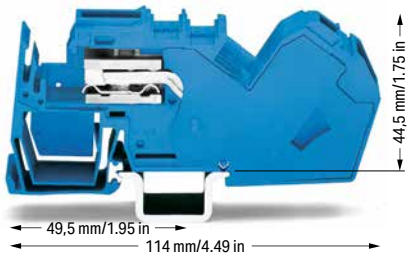
Operating tool; specialty blade; for all TOPJOB® terminal blocks

777-310 1

Screwless end stop; for DIN-35 rail; 6 mm wide

gray 249-116 100 (25)

Technical Data	
6 … 35 mm²	8 … 2 AWG
400 V/6 kV/3 ❷	
I_N 125 A	600 V, 125 A ❸
Terminal block width: 16 mm / 0.63 inch	
23 mm / 0.91 inch	



1-conductor N-disconnect terminal block		
Color	Item No.	Pack. Unit
blue	785-613	15

1-conductor power distribution disconnect terminal block		
gray	785-623	15

Other terminal blocks with the same profile:		
Through	783-601	Page 270

Accessories; item-specific		
Busbar carrier; not suitable as an end stop; snaps onto DIN-35 rail; 1.5 mm thick		
blue	783-321	100 (25)

❶ Max. conductor cross section: 16 mm²

❷ 400 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

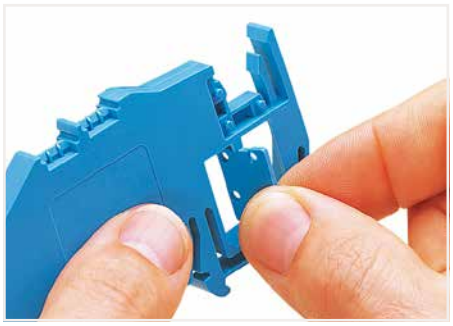
❸ See column 5 (bottom)

❹ See column 6 (bottom)

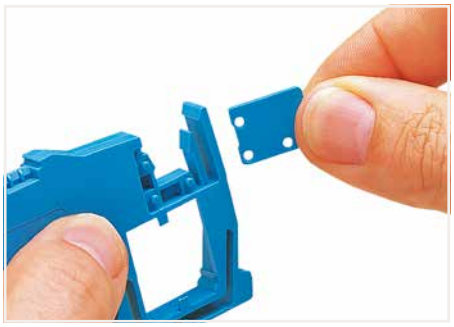
Approvals and corresponding ratings, visit www.wago.com

The 35 mm² (2 AWG) terminal blocks are the latest addition to WAGO TOPJOB®, the professional range of rail-mount terminal blocks for building installations. These terminal blocks, which include an end plate, are just 16 mm wide. Their compact design allows them to fit into standard distribution boxes. The lower conductor entry angle makes it much easier to terminate 35 mm² (2 AWG) conductors.
Furthermore, the N-busbar holder is integrated into the terminal block, eliminating separate holders.

5



Removing the separator plate from the busbar carrier or from the N-disconnect terminal block.

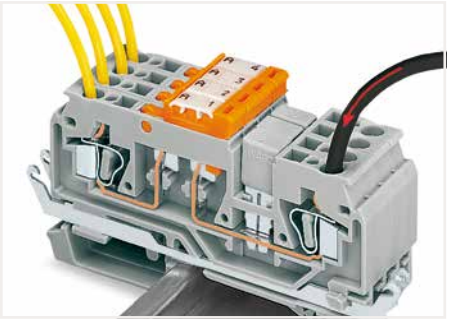


Inserting the separator plate into the busbar carrier to protect the N-busbar against accidental contact.

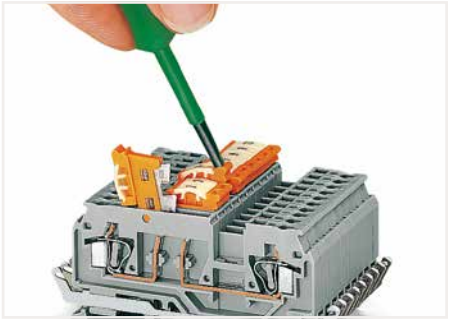
N-conductor disconnect terminal blocks:
For the construction and operation of power installations in fire-prone, hazardous locations or public buildings – such as conference centers, stores, hospitals, schools, theaters or hotels – the DIN VDE 0100-710 or DIN VDE 0100-718 standards shall be observed. DIN VDE 0100-482 shall also be observed for fire-prone, hazardous locations. These VDE regulations mandate that every neutral conductor must be provided with a disconnection device so, e.g., insulation testing is possible for every circuit without disconnecting the N-conductor.
WAGO's N-disconnect terminal blocks meet this requirement.

Power distribution disconnect terminal blocks:
According to DIN VDE 0100-710, "Requirements for operating facilities, rooms and special installations – medical facilities," equipotential bonding conductors shall be run on a potential equalization busbar. The potential equalization busbar and the protective ground conductor busbar must be mounted in a common housing and be connected to each other using a disconnectable copper conductor of minimum 16 mm² (6 AWG). Furthermore, all equipotential bonding conductors must be connected to the potential equalization busbar and clearly arranged so they can be disconnected individually and accessed at any time. Depending on their function, they must be provided with captive marking.
WAGO's power distribution disconnect terminal blocks meet these requirements.

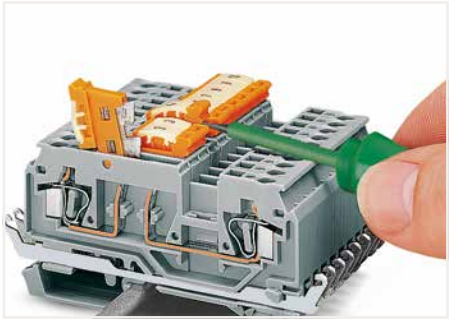
Disconnect/Test Terminal Blocks; with a Pivoting Knife Disconnect
280 Series
Description and Installation



Power distribution using an adjacent jumper – knife disconnect used to disconnect individual outputs.



Pivoting a knife disconnect.



Pivoting knife disconnect clearly indicates circuit state by defined, notched positions "ON" <—> "OFF."

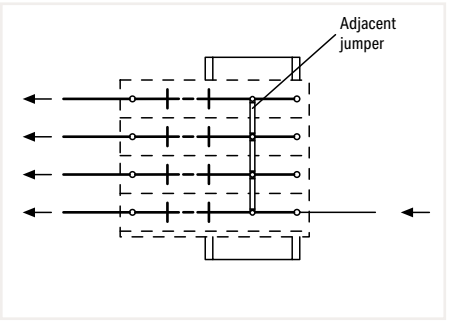
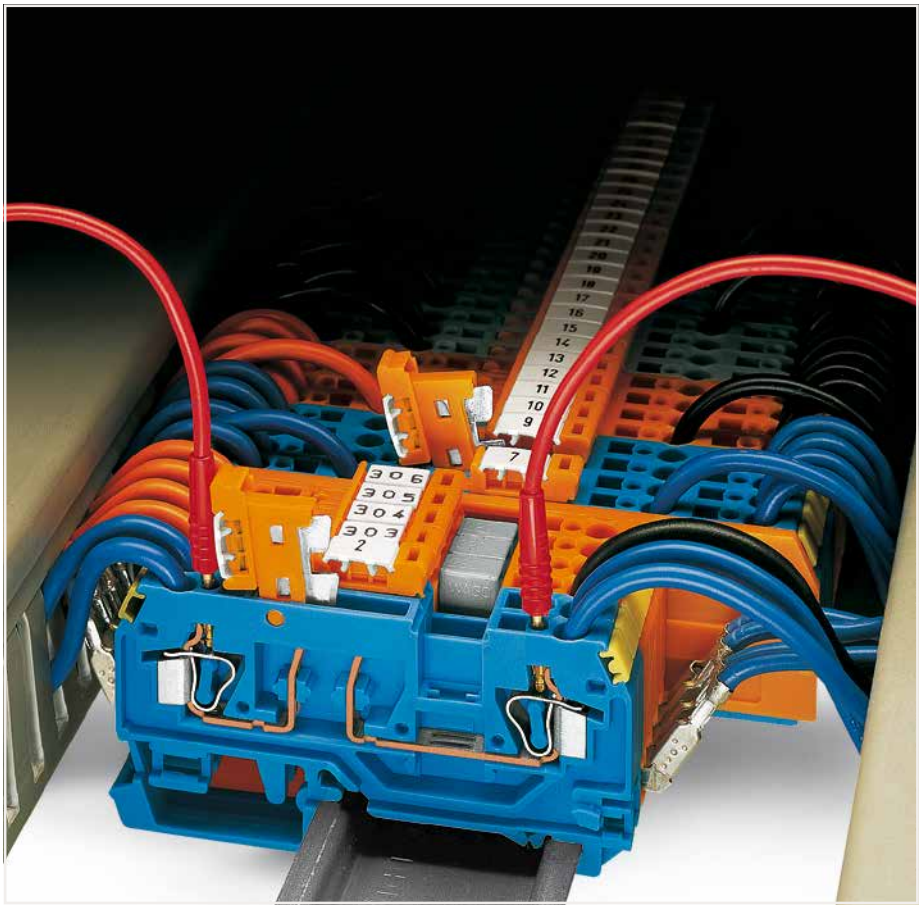
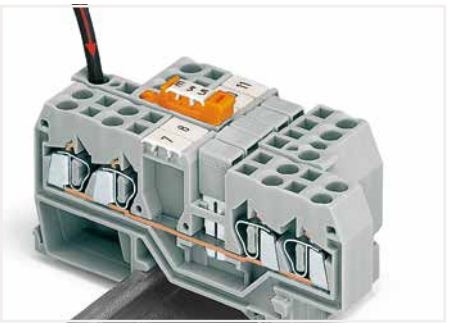


Diagram of the assembly as shown in the picture above





Power distribution using disconnect link in supply line – disconnection of all outputs.

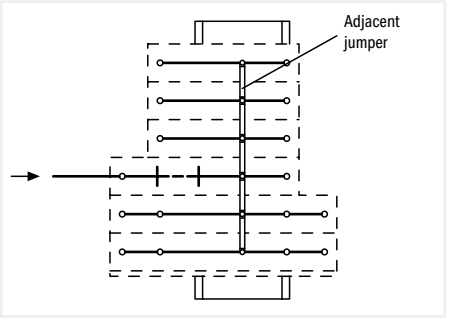


Diagram of the assembly as shown in the picture above

Staggered jumpers for sophisticated circuit requirements – push jumpers down until fully inserted.

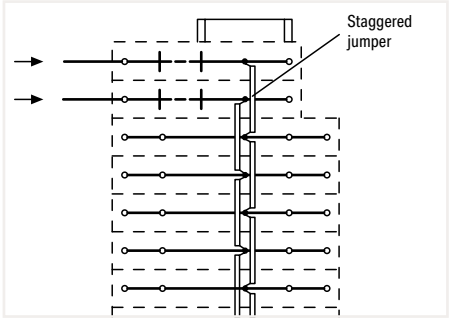


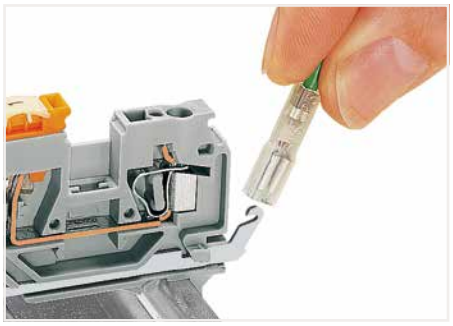
Diagram of the assembly as shown in the picture on the left

CAGE CLAMP® terminates the following copper conductors:
solid

stranded

fine-stranded, also with tinned single strands

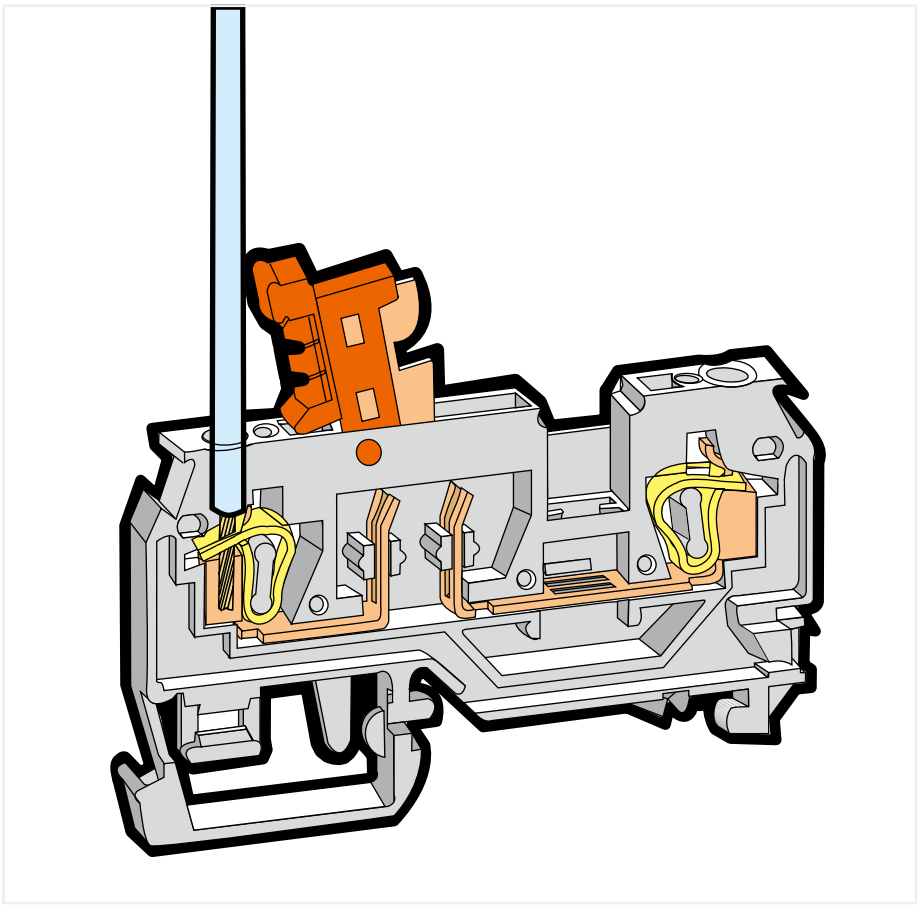
For aluminum conductors, see notes in Section 14. With ferruled conductors, it is necessary to use a terminal block one size smaller than the conductor's nominal cross section.



Shield contact via (2.5 x 0.8) mm solder/crimp quick disconnect terminal

Testing with voltage tester.

Terminal block marking: with WMB (center position) and Mini-WSB markers (on the sides)



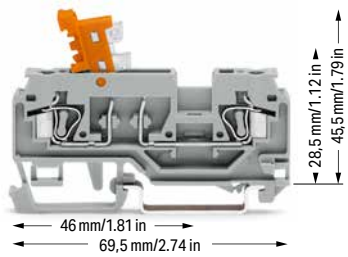
fine-stranded, tip-bonded

fine-stranded, with ferrule (gastight crimped)

fine-stranded, with pin terminal (gastight crimped)

2-Conductor Disconnect/Test Terminal Block without/with Shield Contact
2.5 mm²; 280 Series

Technical Data	
0.08 … 2.5 mm²	28 … 12 AWG*
400 V/6 kV/3 ❶	600 V, 15 A
I_N 16 A	300 V, 15 A
Terminal block width: 5 mm / 0.197 inch	
8 … 9 mm / 0.31 … 0.35 inch	



2-conductor disconnect/test terminal block; with test slots for 2 and 2.3 mm Ø test plugs; with pivoting knife disconnect
Gray terminal block housing
Orange disconnect link

Color	Item No.	Pack. Unit
gray	280-870	100

Gray terminal block housing
Gray disconnect link

gray	280-868	100

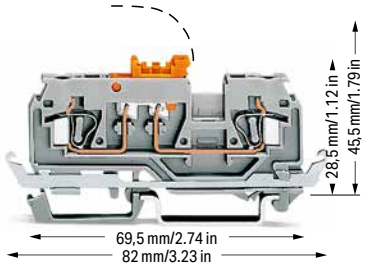
Blue terminal block housing
Orange disconnect link

blue	280-876 ❷	100

Orange terminal block housing
Orange disconnect link

orange	280-879	100

Technical Data	
0.08 … 2.5 mm²	28 … 12 AWG*
250 V/4 kV/3 ❶	600 V, 15 A
I_N 16 A	300 V, 15 A
Terminal block width: 5 mm / 0.197 inch	
8 … 9 mm / 0.31 … 0.35 inch	



2-conductor disconnect/test terminal block; with test slots for 2 and 2.3 mm Ø test plugs; with pivoting knife disconnect
Gray terminal block housing
Orange disconnect link

Color	Item No.	Pack. Unit
gray	280-871	100

Gray terminal block housing
Gray disconnect link

gray	280-869	100

Orange terminal block housing
Orange disconnect link

blue	280-880	100

*12 AWG: THHN, THWN

❶ 400 V / 250 V = rated voltage
6 kV / 4 k V = rated impulse voltage
3 = pollution degree
(see Section 14)

❷ Terminal blocks with a blue insulated housing are suitable for Ex i applications.

Please observe the application notes:
Insulation stop, page 346
Jumpers, from page 348
Comb-style jumper bar, page 347
Testing accessories, from page 342
Marking, from page 588

Approvals and corresponding ratings, visit www.wago.com

Accessories; 280 Series

Appropriate marking systems: WMB/WMB Inline/WFB

End and intermediate plate; 2.5 mm thick

orange	280-371	100 (25)
gray	280-374	100 (25)

Insulation stop; 0.08 … 0.2 mm² "s" (0.14 mm² "f-st"); 5 pcs/strip

white	280-470	200 (25)

Insulation stop; 0.25 … 0.5 mm²; 5 pcs/strip

light gray	280-471	200 (25)

Insulation stop; 0.75 … 1 mm²; 5 pcs/strip

dark gray	280-472	200 (25)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks

yellow	280-415	100 (25)

Adjacent jumper; insulated; I_N = I_N terminal block

gray	280-402	200 (25)
yellow-green	280-422	200 (25)

Alternate jumper; insulated; I_N = I_N terminal block

gray	280-409	100 (25)

Staggered jumper; insulated; 5 mm wide; I_N 24 A

1 to 2	780-452	100 (25)
1 to 3	780-453	100 (25)
1 to 4	780-454	100 (25)
1 to 5	780-455	50 (25)
1 to 6	780-456	50 (25)
1 to 7	780-457	50 (25)
1 to 8	780-458	50 (25)

Push-in type wire jumper; insulated; 0.75 mm² conductor cross section; I_N 9 A

L = 60 mm	249-125	100 (10)
L = 110 mm	249-126	100 (10)
L = 250 mm	249-127	100 (10)

Comb-style jumper bar; insulated; I_N = I_N of terminal block

2-way	280-482	200 (25)
3-way	280-483	200 (25)

Comb-style jumper bar; insulated; I_N = I_N of terminal block

10-way	280-490	50 (25)

Alternate comb-style jumper bar; insulated; I_N = I_N of terminal block

2-way	280-492	200 (25)

Accessories; 280 Series

Appropriate marking systems: WMB/WMB Inline/WFB

Operating tool; insulated

2-way	280-432	1
3-way	280-433	1

Operating tool; insulated

10-way	280-440	1

Test plug module; snaps together; 5 mm wide

gray	280-418	100 (25)

Spacer module; snaps together; 5 mm wide

gray	280-419	100 (25)

Test plug adapter; 8.3 mm wide; for 4 mm Ø test plug; for 1.5 … 10 mm² terminal blocks

gray	209-170	50 (25)

Banana plug; for 4 mm socket diameter; color mixed; 10 x orange, white, black, blue, yellow; max. 42 V

	215-111	50

Test plug adapter; 5 mm wide; for 210-137 Test Plug (2.3 mm Ø); for 1.5 … 4 mm² terminal blocks

gray	280-404	100 (25)

Test plug; with 500 mm cable; 2 mm Ø; max. 42 V

red	210-136	50

Test plug; with 500 mm cable; 2.3 mm Ø; max. 42 V

yellow	210-137	50

WMB marking card; white; 10 strips with 10 markers/card; stretchable 5 … 5.2 mm

plain	793-5501	5

Mini-WSB marking card; white; 10 strips with 10 markers/card; 5 mm wide markers

plain	248-501	5

CAGE CLAMP®

4-Conductor Disconnect/Test Terminal Block without/with Shield Contact
2.5 mm²; 280 Series

Technical Data	
0.08 … 2.5 mm²	28 … 12 AWG*
400 V/6 kV/3 ❶	600 V, 15 A
I_N 16 A	300 V, 15 A
Terminal block width: 5 mm / 0.197 inch	
8 … 9 mm / 0.31 … 0.35 inch	

Technical Data	
0.08 … 2.5 mm²	28 … 12 AWG*
250 V/4 kV/3 ❶	600 V, 15 A
I_N 16 A	300 V, 15 A
Terminal block width: 5 mm / 0.197 inch	
8 … 9 mm / 0.31 … 0.35 inch	

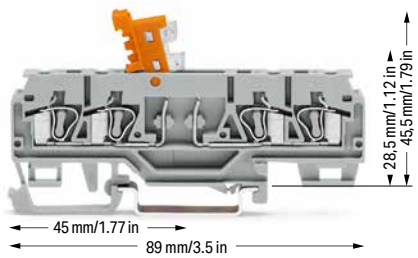
*12 AWG: THHN, THWN

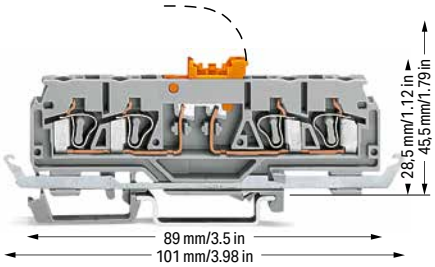
❶ 400 V / 250 V = rated voltage
6 kV / 4 k V = rated impulse voltage
3 = pollution degree
(see Section 14)

❷ Terminal blocks with a blue insulated housing are suitable for Ex i applications.

Please observe the application notes:
Insulation stop, page 346
Comb-style jumper bar, page 347
Marking, from page 588

Approvals and corresponding ratings, visit www.wago.com





4-conductor disconnect/test terminal block; with test slots for 2 and 2.3 mm Ø test plugs; with pivoting knife disconnect
Gray terminal block housing
Orange disconnect link

Color	Item No.	Pack. Unit
gray	280-874	100

4-conductor disconnect/test terminal block; with test slots for 2 and 2.3 mm Ø test plugs; with pivoting knife disconnect
Gray terminal block housing
Orange disconnect link

Color	Item No.	Pack. Unit
gray	280-875	100

Gray terminal block housing
Gray disconnect link

gray	280-881	100

Gray terminal block housing
Gray disconnect link

gray	280-882	100

Blue terminal block housing
Orange disconnect link

blue	280-885 ❷	100

Orange terminal block housing
Orange disconnect link

blue	280-884	100

Orange terminal block housing
Orange disconnect link

orange	280-883	100

Accessories; 280 Series

Appropriate marking systems: WMB/WMB Inline/WFB

End and intermediate plate; 2.5 mm thick

orange	280-373	100 (25)
gray	280-376	100 (25)

Insulation stop; 0.08 … 0.2 mm² "s" (0.14 mm² "f-st"); 5 pcs/strip

white	280-470	200 (25)

Insulation stop; 0.25 … 0.5 mm²; 5 pcs/strip

light gray	280-471	200 (25)

Insulation stop; 0.75 … 1 mm²; 5 pcs/strip

dark gray	280-472	200 (25)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks

yellow	280-415	100 (25)

Comb-style jumper bar; insulated; I_N = I_N of terminal block

2-way	280-482	200 (25)
3-way	280-483	200 (25)

Comb-style jumper bar; insulated; I_N = I_N of terminal block

10-way	280-490	50 (25)

Alternate comb-style jumper bar; insulated; I_N = I_N of terminal block

2-way	280-492	200 (25)

Operating tool; insulated

2-way	280-432	1
3-way	280-433	1

Operating tool; insulated

10-way	280-440	1

Test plug; with 500 mm cable; 2 mm Ø; max. 42 V

red	210-136	50

Test plug; with 500 mm cable; 2.3 mm Ø; max. 42 V

yellow	210-137	50

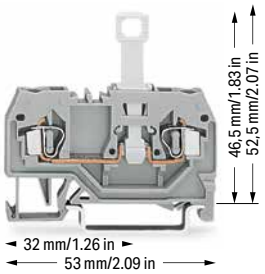
Screwless end stop; for DIN-35 rail; 6 mm wide

gray	249-116	100 (25)

5

Disconnect/Test Terminal Block; with Disconnect Tab
2.5 mm²; 280 Series

Technical Data	
0.08 … 2.5 mm²	28 … 12 AWG*
400 V/6 kV/3 ❶	300 V, 15 A
I_N 10 A	300 V, 15 A
Terminal block width: 5 mm / 0.197 inch	
8 … 9 mm / 0.31 … 0.35 inch	

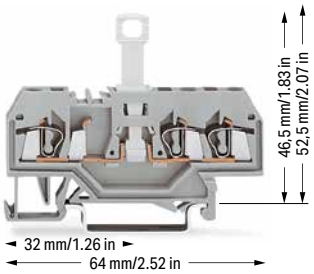


2-conductor disconnect terminal block; with disconnect tab		
Color	Item No.	Pack. Unit
gray	280-912	50
blue	280-914	50
orange	280-913	50

Other terminal blocks with the same profile:		
Through	280-901	Page 236

Accessories; item-specific			
End and intermediate plate; 2.5 mm thick			
	orange	280-309	100 (25)
	gray	280-308	100 (25)
	light gray	280-356	100 (25)
Separator; oversized; 2 mm thick			
	orange	280-311	100 (25)
	gray	280-310	100 (25)
	light gray	280-357	100 (25)

Technical Data	
0.08 … 2.5 mm²	28 … 12 AWG*
400 V/6 kV/3 ❶	300 V, 15 A
I_N 10 A	600 V, 15 A
Terminal block width: 5 mm / 0.197 inch	
8 … 9 mm / 0.31 … 0.35 inch	

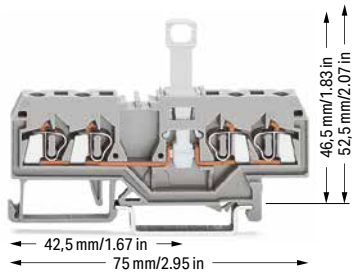


3-conductor disconnect terminal block; with disconnect tab		
Color	Item No.	Pack. Unit
gray	280-683	50

Other terminal blocks with the same profile:		
Through	280-681	Page 236

Accessories; item-specific			
End and intermediate plate; 2.5 mm thick			
	orange	280-326	100 (25)
	gray	280-324	100 (25)
	light gray	280-358	100 (25)
Separator; oversized; 2 mm thick			
	orange	280-346	100 (25)
	gray	280-344	100 (25)
	light gray	280-359	100 (25)

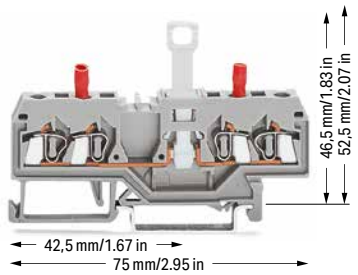
Technical Data	
0.08 … 2.5 mm²	28 … 12 AWG*
400 V/6 kV/3 ❶	300 V, 15 A
I_N 10 A	600 V, 15 A
Terminal block width: 5 mm / 0.197 inch	
8 … 9 mm / 0.31 … 0.35 inch	



4-conductor disconnect terminal block; with disconnect tab		
Color	Item No.	Pack. Unit
gray	280-836	50
blue	280-839	50
orange	280-805	50

Other terminal blocks with the same profile:		
Through	280-833	Page 236

Accessories; item-specific			
End and intermediate plate; 2.5 mm thick			
	orange	280-315	100 (25)
	gray	280-314	100 (25)
	light gray	280-352	100 (25)
Separator; oversized; 2 mm thick			
	orange	280-335	100 (25)
	gray	280-334	100 (25)
	light gray	280-353	100 (25)



2-conductor disconnect/test terminal block; with disconnect tab; with integrated test sockets		
Color	Item No.	Pack. Unit
gray	280-829	50

Accessories; item-specific			
End and intermediate plate; 2.5 mm thick			
	orange	280-315	100 (25)
	gray	280-314	100 (25)
	light gray	280-352	100 (25)
Separator; oversized; 2 mm thick			
	orange	280-335	100 (25)
	gray	280-334	100 (25)
	light gray	280-353	100 (25)

*12 AWG: THHN, THWN

❶ 400 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

Please observe the application notes:
Insulation stop, page 346
Comb-style jumper bar, page 347
Marking, from page 588

Approvals and corresponding ratings, visit www.wago.com

Accessories; 280 Series

Appropriate marking systems: WMB/WMB Inline/WFB

Insulation stop; 0.08 … 0.2 mm² "s" (0.14 mm² "f-st"); 5 pcs/strip

white	**280-470**	200 (25)

Insulation stop; 0.25 … 0.5 mm²; 5 pcs/strip

light gray	**280-471**	200 (25)

Insulation stop; 0.75 … 1 mm²; 5 pcs/strip

dark gray	**280-472**	200 (25)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks

yellow	**280-415**	100 (25)

Comb-style jumper bar; insulated; I_N = I_N of terminal block

2-way	**280-482**	200 (25)
3-way	**280-483**	200 (25)
10-way	**280-490**	50 (25)

Alternate comb-style jumper bar; insulated; I_N = I_N of terminal block

2-way	**280-492**	200 (25)

Operating tool; insulated

2-way	**280-432**	1
3-way	**280-433**	1
10-way	**280-440**	1

Disconnect lock; for disconnect tab used on disconnect terminal blocks (280/281 and 769 Series)

red	**709-170**	200 (25)

Test socket; insulated; 2 mm Ø

red	**209-107**	

Test socket; insulated; 2.3 mm Ø

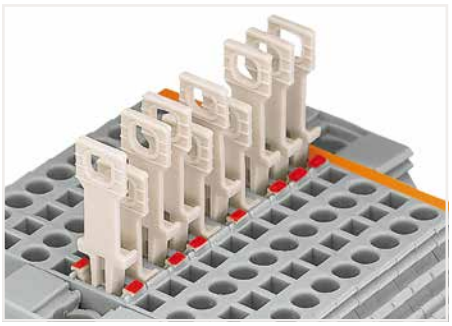
yellow	**209-108**	100 (25)

Test plug; with 500 mm cable; 2 mm Ø; max. 42 V

red	**210-136**	50

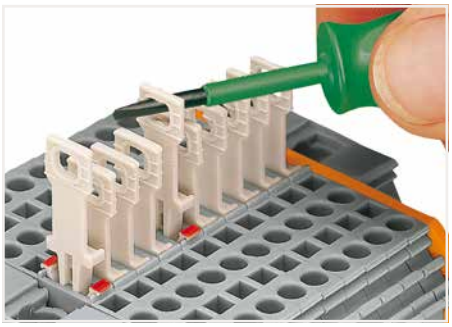
Test plug; with 500 mm cable; 2.3 mm Ø; max. 42 V

yellow	**210-137**	50



Disconnect terminal block with colored tab to indicate the switching status
(red = disconnected)

Commoning front-entry disconnect terminal blocks via comb-style jumper bar using a 10-pole operating tool.



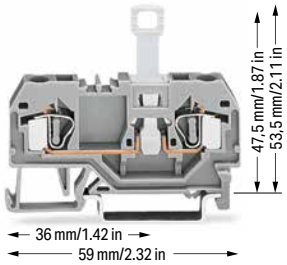
Pulling the disconnect tab via operating tool.

Pulling the disconnect tab by hand.

5

Disconnect/Test Terminal Block; with Disconnect Tab
4 mm²; 281 Series

Technical Data	
0.08 … 4 mm²	28 … 12 AWG
400 V/6 kV/3 ❶	300 V, 15 A
I_N 10 A	300 V, 15 A
Terminal block width: 6 mm / 0.236 inch	
9 … 10 mm / 0.35 … 0.39 inch	



2-conductor disconnect terminal block; with disconnect tab

Color	Item No.	Pack. Unit
gray	281-912	50

Other terminal blocks with the same profile:		
Through	281-901	Page 242

Accessories; item-specific

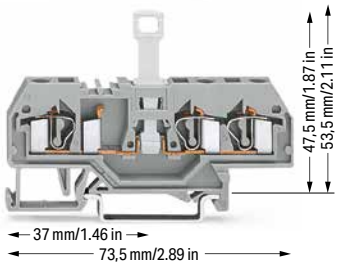
End and intermediate plate; 2.5 mm thick

	orange	281-329	100 (25)
	gray	281-328	100 (25)
	light gray	281-349	100 (25)

Separator; oversized; 2 mm thick

	orange	281-331	100 (25)
	gray	281-330	100 (25)
	light gray	281-350	100 (25)

Technical Data	
0.08 … 4 mm²	28 … 12 AWG
400 V/6 kV/3 ❶	300 V, 15 A
I_N 10 A	600 V, 15 A
Terminal block width: 6 mm / 0.236 inch	
9 … 10 mm / 0.35 … 0.39 inch	



3-conductor disconnect terminal block; with disconnect tab

Color	Item No.	Pack. Unit
gray	281-683	50

Other terminal blocks with the same profile:		
Through	281-681	Page 242

Accessories; item-specific

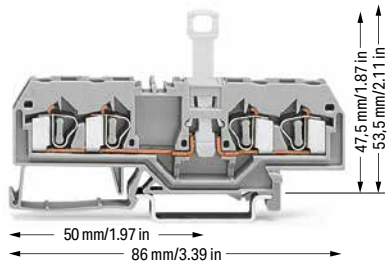
End and intermediate plate; 2.5 mm thick

	orange	281-326	100 (25)
	gray	281-324	100 (25)
	light gray	281-355	100 (25)

Separator; oversized; 2 mm thick

	orange	281-346	100 (25)
	gray	281-344	100 (25)
	light gray	281-356	100 (25)

Technical Data	
0.08 … 4 mm²	28 … 12 AWG
400 V/6 kV/3 ❶	300 V, 15 A
I_N 10 A	600 V, 15 A
Terminal block width: 6 mm / 0.236 inch	
9 … 10 mm / 0.35 … 0.39 inch	



4-conductor disconnect terminal block; with disconnect tab

Color	Item No.	Pack. Unit
gray	281-659	50
blue	281-660	50

Other terminal blocks with the same profile:		
Through	281-652	Page 242

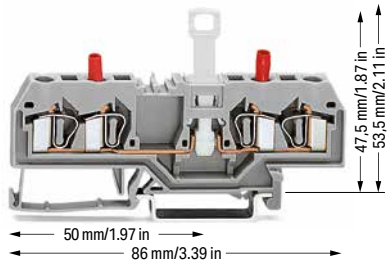
Accessories; item-specific

End and intermediate plate; 2.5 mm thick

	orange	281-335	100 (25)
	gray	281-334	100 (25)
	light gray	281-345	100 (25)

Separator; oversized; 2 mm thick

	orange	281-339	100 (25)
	gray	281-338	100 (25)
	light gray	281-347	100 (25)



2-conductor disconnect/test terminal block; with disconnect tab; with integrated test sockets

Color	Item No.	Pack. Unit
gray	281-666	50

Accessories; item-specific

End and intermediate plate; 2.5 mm thick

	orange	281-335	100 (25)
	gray	281-334	100 (25)
	light gray	281-345	100 (25)

Separator; oversized; 2 mm thick

	orange	281-339	100 (25)
	gray	281-338	100 (25)
	light gray	281-347	100 (25)

❶ 400 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

Please observe the application notes:
Insulation stop, page 346
Comb-style jumper bar, page 347
Marking, from page 588

Approvals and corresponding ratings, visit www.wago.com

Accessories; 281 Series

Appropriate marking systems:
WMB/WMB Inline/WFB

Insulation stop; 0.08 … 0.2 mm² "s" (0.14 mm² "f-st"); 5 pcs/strip

white	**281-470**	200 (25)

Insulation stop; 0.25 … 0.5 mm²; 5 pcs/strip

light gray	**281-471**	200 (25)

Insulation stop; 0.75 … 1.5 mm²; 5 pcs/strip

dark gray	**281-472**	200 (25)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks

yellow	**281-415**	100 (25)

Comb-style jumper bar; insulated; I_N = I_N of terminal block

2-way	**281-482**	100 (25)
3-way	**281-483**	100 (25)
5-way	**281-485**	100 (25)
10-way	**281-490**	50 (25)

Alternate comb-style jumper bar; insulated; I_N = I_N of terminal block

2-way	**281-492**	100 (25)

Operating tool; insulated

2-way	**280-432**	1
3-way	**280-433**	1
10-way	**281-440**	1

Disconnect lock; for disconnect tab used on disconnect terminal blocks (280/281 and 769 Series)

red	**709-170**	200 (25)

Test socket; insulated; 2 mm Ø

red	**209-107**	

Test socket; insulated; 2.3 mm Ø

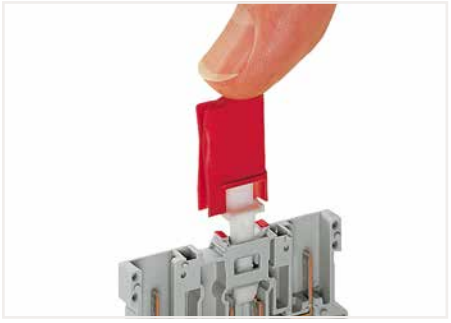
yellow	**209-108**	100 (25)

Test plug; with 500 mm cable; 2 mm Ø; max. 42 V

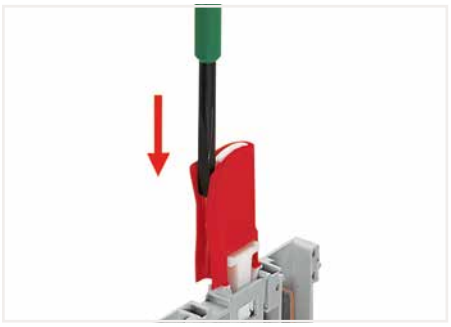
red	**210-136**	50

Test plug; with 500 mm cable; 2.3 mm Ø; max. 42 V

yellow	**210-137**	50

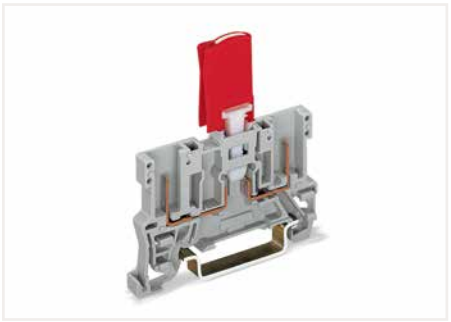


Installing a disconnect lock on the terminal block's disconnect tab (picture shows a 2-pin disconnect carrier terminal block, 769 Series).



Unlocking a disconnect lock.

Removing a disconnect lock.



Double Safety:
The disconnect tab has been designed for maximum operational safety.

As soon as the disconnect tab is in the disconnect position, it can be protected against unintentional reconnection by using the disconnect lock.
Only through intentional and focused use of a tool, can the disconnect lock be removed and the circuit reconnected.

Features/Benefits:
- Easy to use
- Install/remove disconnect lock with just one hand
- Clearly identify disconnect tab position
- Higher safety
- Intentional effort is required to reconnect the circuit

5

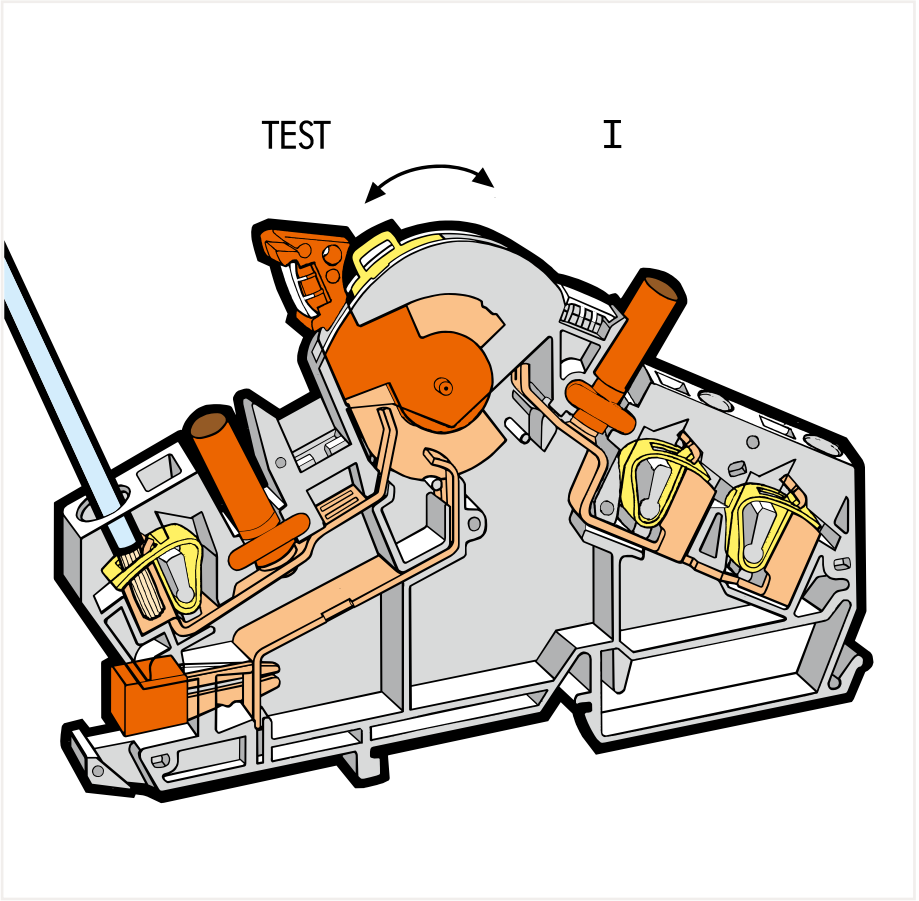
Disconnect/Test Terminal Blocks; for Current and Voltage Transformer Circuits
282 Series
Description and Installation

Inserting an insulated, touch-proof adjacent jumper into the protected shorting position.

Terminal strip permanently prepared for current transformer circuits.

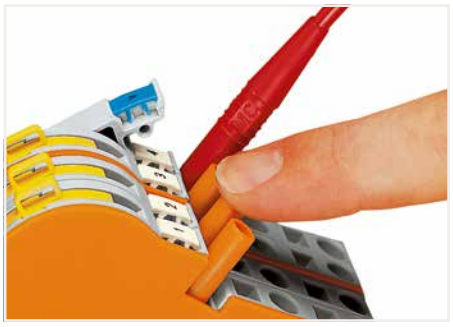
5

Lock-out snaps into one of two notched positions, preventing accidental operation of the disconnect link.

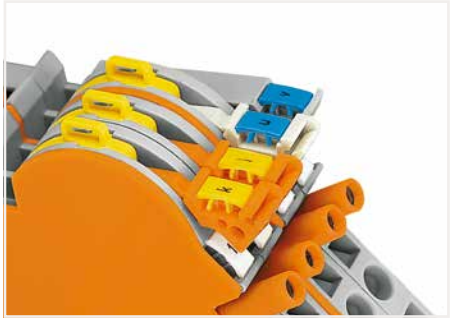


Snapping a transparent locking cover onto 1–8 disconnect links:
a) Mechanically lock several links for multi-pole switching applications
b) Protect markers

Interlocking link mechanically locks multiple links for multi-pole switching applications.



Touch-proof test sockets for touch-proof 4 mm Ø test plugs (not available from WAGO, but are offered by industry suppliers such as, Fabrikat Multi-Contact)



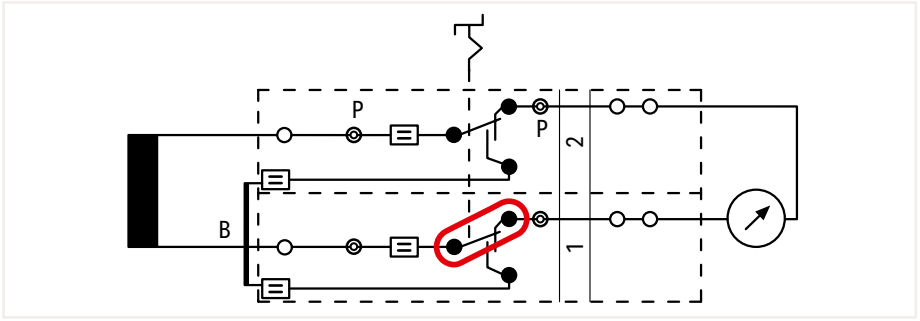
Labeling via WMB Multi Marking System.

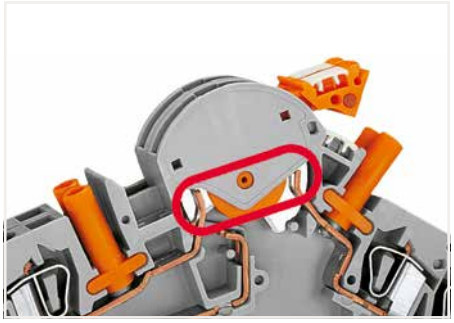
CAGE CLAMP® terminates the following copper conductors:
solid

stranded

fine-stranded, also with tinned single strands

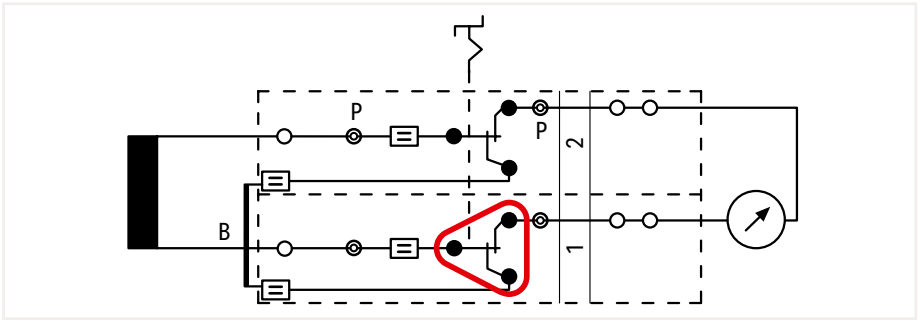
For aluminum conductors, see notes in Section 14. With ferruled conductors, it is necessary to use a terminal block one size smaller than the conductor's nominal cross section.

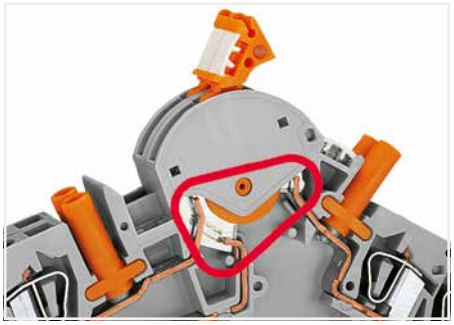




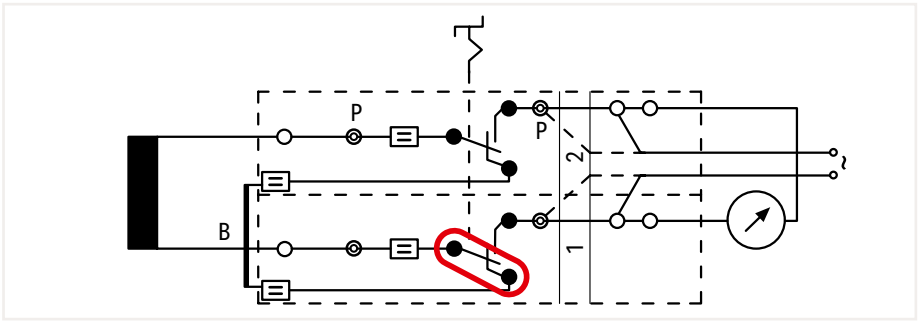
Disconnect link in notched "I" position
In "I" operating position, the measurement device is connected to the transformer.

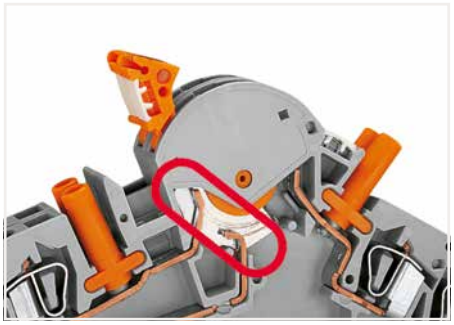
B = shorting jumper, P = test socket



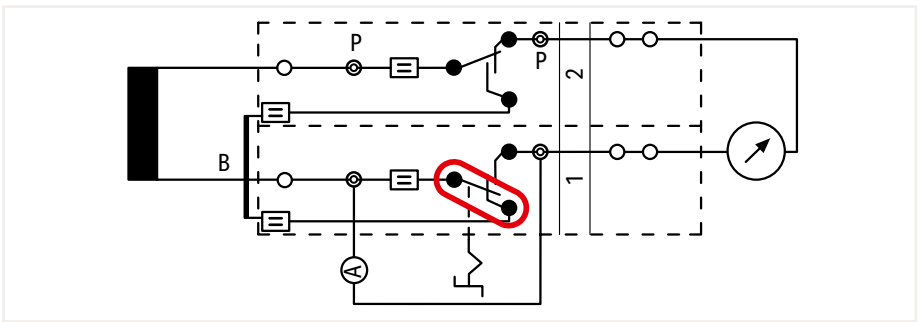


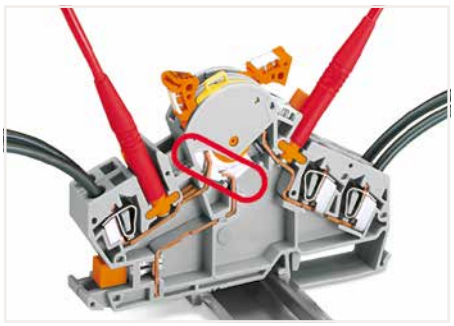
Disconnect link in transition from "I" to "TEST" (terminal blocks 1 + 2)
The transformer is not disconnected from the measurement device, yet the shorting path is activated by moving the disconnect link from "I" to "TEST."





Disconnect link in notched "TEST" position (terminal blocks 1 + 2)
The measurement device/relay is electrically disconnected from the transformer. If required, external voltage can be applied to the measurement device/relay via the test socket, or the 2nd CAGE CLAMP® connection.





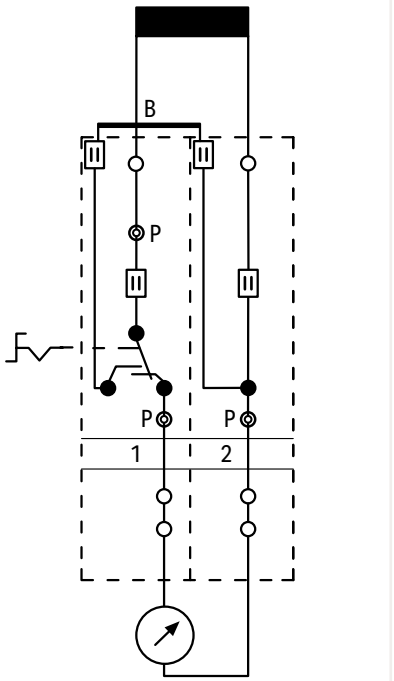
Disconnect link in notched position "I" (terminal block 2) Disconnect link in notched position "TEST" (terminal block 1) – measurement testing
Before moving the disconnect link of terminal block 1 into the notched "TEST" position, the reference current meter must be inserted into the test socket of terminal block 1.

fine-stranded, tip-bonded

fine-stranded, with ferrule (gastight crimped)

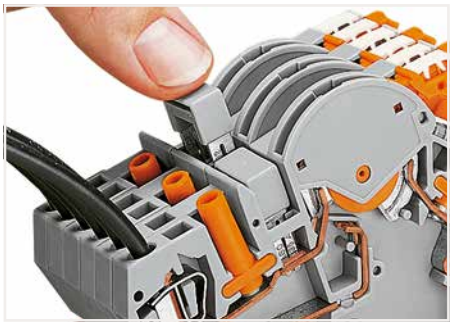
fine-stranded, with pin terminal (gastight crimped)

Circuit Configuration Examples

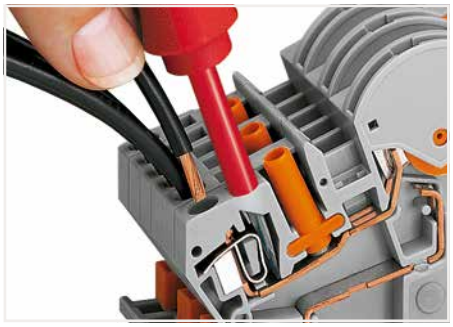


Measuring set for a single-phase current transformer (without measurement testing)

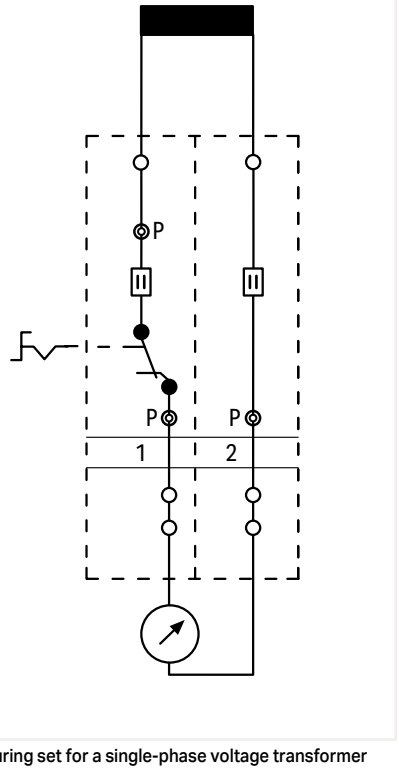
Terminal blocks required:
- 1 x disconnect/test terminal block (282-870)
- 1 x through terminal block (282-865)
- 1 x jumper, orange (282-424)
- 1 x end plate, orange (282-386)
- In addition: locking cover, lock-out



Additional commoning possible with circuit-related adjacent jumpers or testing option via test plug adapter (209-170) on transformer side.



CAGE CLAMP® connection
Inserting a conductor via operating tool (5.5 x 0.8 mm blade).

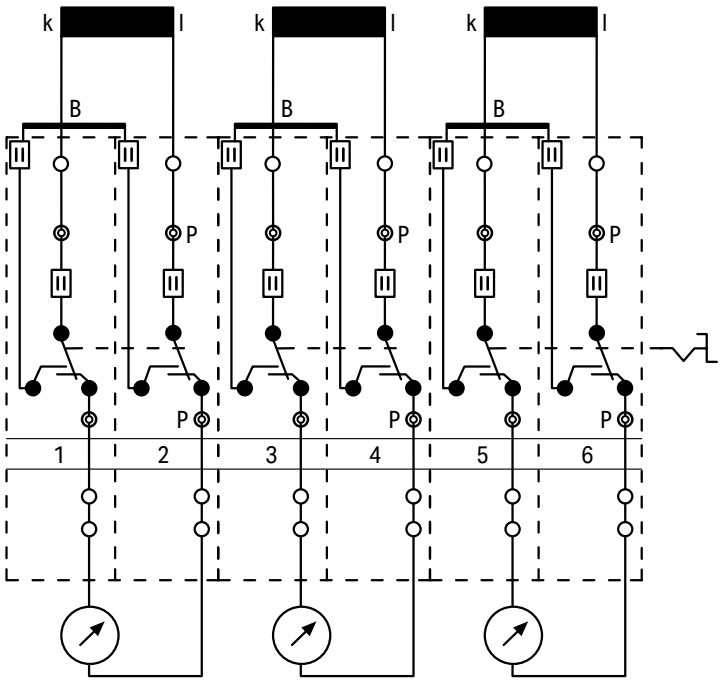


Measuring set for a single-phase voltage transformer

Terminal blocks required:
- 1 x disconnect/test terminal block (282-860)
- 1 x through terminal block (282-866)
- 1 x end plate, orange (282-386)
- In addition: locking cover, lock-out

A lock-out seal can be used on the disconnect link in notched "I" position.

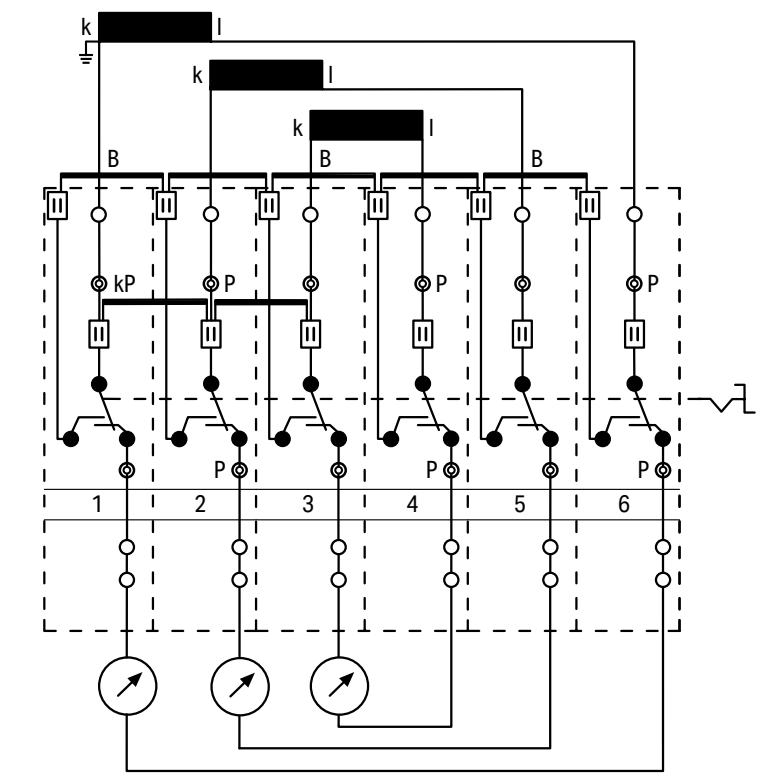
Additional CAGE CLAMP® connection on the measurement device side, e.g., when connecting wire commoning chains or applying an external voltage.



Measuring set for a three-phase current transformer
Pairs of disconnect links are interconnected via interlocking link or locking cover.
Measurement testing is performed after the interlocking is released.

B = shorting jumper, P = test socket

Terminal blocks required:
- 6 x disconnect/test terminal block (282-870)
- 3 x jumper, orange (282-424)
- 3 x end plate, orange (282-386)
- In addition: interlocking link, locking cover, lock-out



Measuring set for a three-phase current transformer with 'Y' point
All six disconnect links are interconnected via interlocking link.

kP = 'Y' point jumper

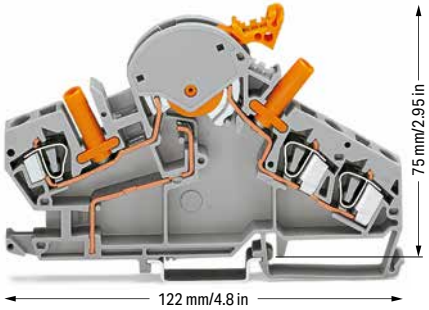
Terminal blocks required:
- 6 x disconnect/test terminal block (282-870)
- 5 x jumper, orange (282-424)
- 2 x jumper, gray (282-402)
- 1 x end plate, orange (282-386)
- In addition: interlocking link, locking cover, lock-out

Disconnect/Test Terminal Block, Through/Ground Conductor Terminal Block; for Current and Voltage Transformer Circuits

6 mm²; 282 Series

5

Technical Data	
0.2 … 6 mm²	24 … 10 AWG
500 V/6 kV/3 ❶	600 V, 30 A
I_N 30 A	300 V, 5 A
Terminal block width: 8 mm / 0.315 inch	
12 … 13 mm / 0.47 … 0.51 inch	



Disconnect/test terminal block; with touch-proof test sockets; for 4 mm Ø test plugs; e.g., for current transformer circuits; orange disconnect link

Color	Item No.	Pack. Unit
gray	282-870 ❷ ❸	20

Accessories; item-specific

End and separator plate; 1.5 mm thick; without lock-out seal option

orange	282-386	50 (10)
gray	282-391	50 (10)

End and separator plate; 1.5 mm thick; with lock-out seal option

orange	282-387	50 (10)
gray	282-392	50 (10)

Lock-out device; for disconnect link

yellow	282-384	100 (20)

Locking cover; mechanically locks multiple links; transparent

1-pole	282-881	50 (10)
2-pole	282-882	50 (10)
3-pole	282-883	50 (10)
4-pole	282-884	50 (10)
5-pole	282-885	50 (10)
6-pole	282-886	50 (10)
7-pole	282-887	50 (10)
8-pole	282-888	50 (10)

Interlocking link; mechanically locks multiple links; 1 m long

transparent	210-254	1

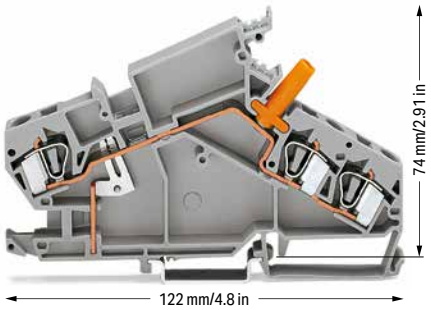
Adjacent jumper; insulated; I_N 41 A

orange	282-424	100 (25)

WMB marking card; 10 strips with 10 markers/card; stretchable 5 … 5.2 mm; yellow

k/l (50x)	794-5553/000-002	5

Technical Data	
0.2 … 6 mm²	24 … 10 AWG
500 V/6 kV/3 ❶	600 V, 30 A
I_N 30 A	300 V, 5 A
Terminal block width: 8 mm / 0.315 inch	
12 … 13 mm / 0.47 … 0.51 inch	



Through terminal block; with touch-proof test socket; for 4 mm Ø test plugs; e.g., for current transformer circuits

Color	Item No.	Pack. Unit
gray	282-865 ❸	20

Accessories; item-specific

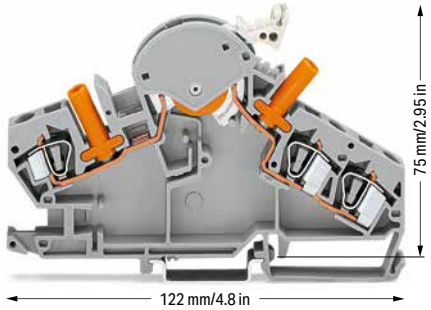
End and intermediate plate; 1.5 mm thick

orange	282-385	50 (10)
gray	282-390	50 (10)

WMB marking card; 10 strips with 10 markers/card; stretchable 5 … 5.2 mm; yellow

k/l (50x)	794-5553/000-002	5

Technical Data	
0.2 … 6 mm²	24 … 10 AWG
500 V/6 kV/3 ❶	600 V, 30 A
I_N 30 A	300 V, 5 A
Terminal block width: 8 mm / 0.315 inch	
12 … 13 mm / 0.47 … 0.51 inch	



Disconnect/test terminal block; with touch-proof test sockets; for 4 mm Ø test plugs; e.g., for voltage transformer circuits; light gray disconnect link

Color	Item No.	Pack. Unit
gray	282-860 ❷ ❸	20

Accessories; item-specific

End and separator plate; 1.5 mm thick; without lock-out seal option

orange	282-386	50 (10)
gray	282-391	50 (10)

End and separator plate; 1.5 mm thick; with lock-out seal option

orange	282-387	50 (10)
gray	282-392	50 (10)

Lock-out device; for disconnect link

yellow	282-384	100 (20)

Locking cover; mechanically locks multiple links; transparent

1-pole	282-881	50 (10)
2-pole	282-882	50 (10)
3-pole	282-883	50 (10)
4-pole	282-884	50 (10)
5-pole	282-885	50 (10)
6-pole	282-886	50 (10)
7-pole	282-887	50 (10)
8-pole	282-888	50 (10)

Interlocking link; mechanically locks multiple links; 1 m long

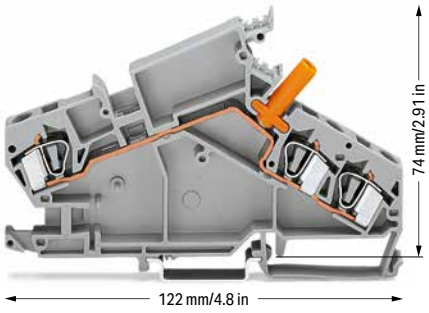
transparent	210-254	1

WMB marking card; 10 strips with 10 markers/card; stretchable 5 … 5.2 mm; blue

U/V (50x)	794-5554/000-006	5

CAGE CLAMP®

Technical Data	
0.2 … 6 mm²	24 … 10 AWG
500 V/6 kV/3 ❶	600 V, 30 A
I_N 30 A	300 V, 5 A
Terminal block width: 8 mm / 0.315 inch	
12 … 13 mm / 0.47 … 0.51 inch	



Through terminal block; with touch-proof test socket; for 4 mm Ø test plugs; e.g., for voltage transformer circuits

Color	Item No.	Pack. Unit
gray	282-866 ❸	20

Accessories; item-specific

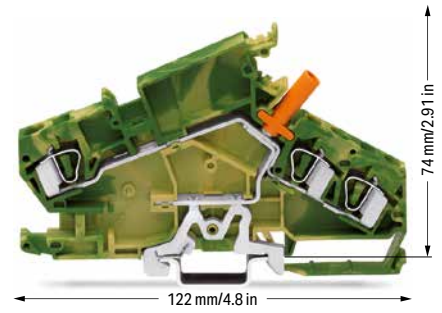
End and intermediate plate; 1.5 mm thick

orange	282-385	50 (10)
gray	282-390	50 (10)

WMB marking card; 10 strips with 10 markers/card; stretchable 5 … 5.2 mm; blue

U/V (50x)	794-5554/000-006	5

Technical Data	
0.2 … 6 mm²	24 … 10 AWG
Terminal block width: 8 mm / 0.315 inch	
12 … 13 mm / 0.47 … 0.51 inch	



Ground conductor terminal block; with touch-proof test socket; for 4 mm Ø test plugs, e.g., for voltage transformer circuits

Color	Item No.	Pack. Unit
gray	282-868 ❸	20

Accessories; item-specific

End and intermediate plate; 1.5 mm thick

orange	282-385	50 (10)
gray	282-390	50 (10)

❶ 500 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

❷ Max. height when rotating the disconnect link (incl. locking cover): 92 mm/3.62 inch

❸ For operating stickers, please refer to our online catalog:
- for 282-870: Item No. 210-412
- for 282-865: Item No. 210-415
- for 282-860: Item No. 210-414
- for 282-866: Item No. 210-413

Approvals and corresponding ratings, visit www.wago.com

Accessories; 282 Series

Appropriate marking systems: WMB/WMB Inline/WFB

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks

yellow	282-415	100 (25)

Adjacent jumper; insulated; I_N 41 A

gray	282-402	100 (25)
yellow-green	282-422	100 (25)

Alternate jumper; insulated; I_N 41 A

gray	282-409	100 (25)

Wire commoning chain; insulated; 4 connections; 3 x 110 mm; I_N 24 A

black	709-110	1

Wire commoning chain; insulated; 3 connections; 2 x 120 mm; I_N 24 A

black	709-111	1

Wire commoning chain; insulated; 3 connections; 2 x 170 mm; I_N 24 A

black	709-112	1

Group marker carrier; e.g., for 282 Series; angled

gray	209-144	50 (25)

WMB marking card; white; 10 strips with 10 markers/card; for 5 … 17.5 mm terminal block width

plain	793-501	5

WMB marking card; plain; 10 strips with 10 markers/card; for 5 … 17.5 mm terminal block width

yellow	793-501/000-002	5
red	793-501/000-005	5
blue	793-501/000-006	5
gray	793-501/000-007	5
orange	793-501/000-012	5
light green	793-501/000-017	5
green	793-501/000-023	5
violet	793-501/000-024	5

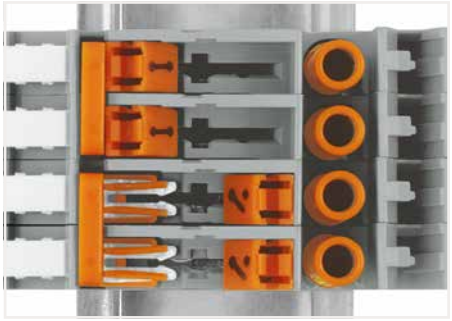
5

CAGE CLAMP®

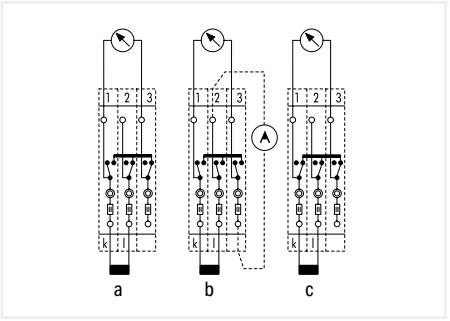
Transverse Switching Terminal Blocks and Longitudinal Switching Disconnect Terminal Blocks 282 Series

Description and Installation

Transverse switching terminal blocks
Left: Adjacent jumper for commoning of switching lever
Right: Commoning with orange jumper



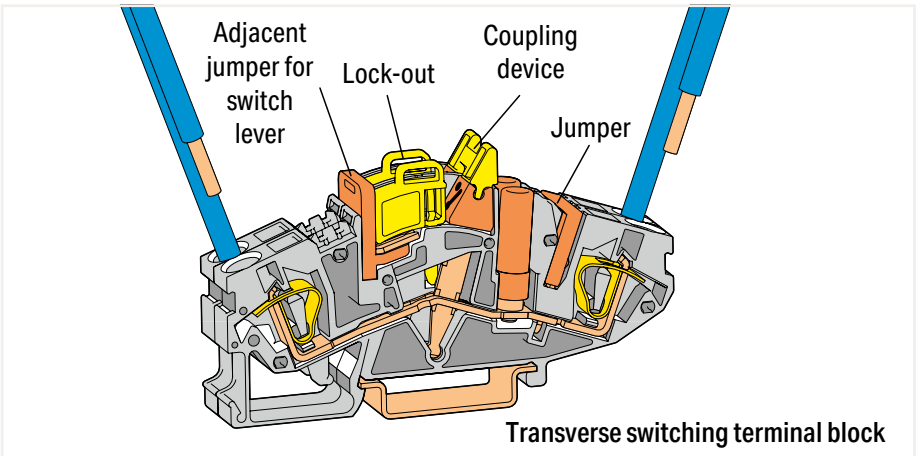
Switch positions
Left: closed
Right: open



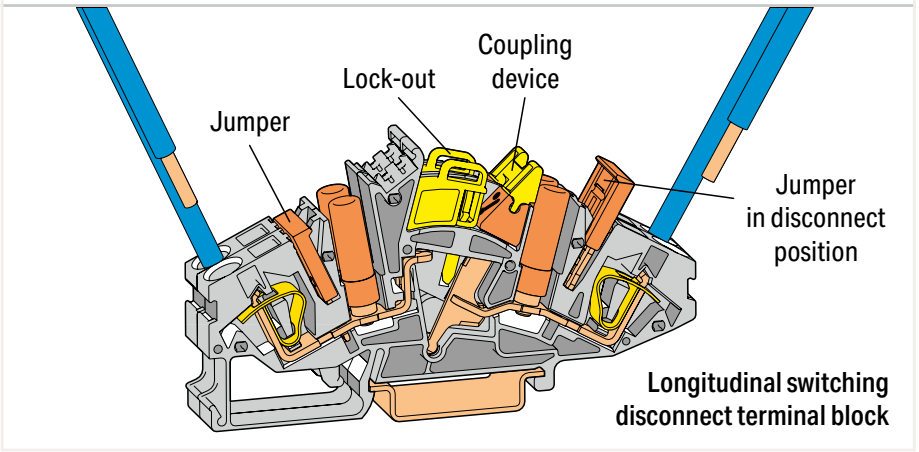
Current transformer circuit with transverse switching terminal blocks
a = Normal operation b = Transformer short circuit
c = Transformer short circuit

5

Testing via touch-proof 4 mm Ø test plugs (not available from WAGO, but offered by industry suppliers such as, Multi-Contact Deutschland GmbH).

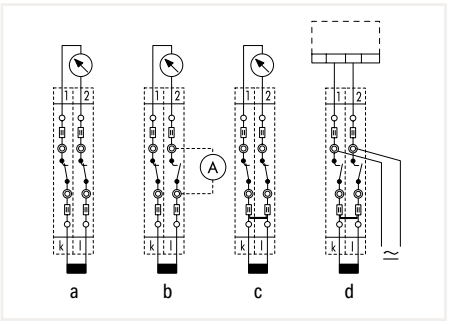


CAGE CLAMP® connection
Inserting a conductor.



Inserting a lock-out.

Longitudinal switching disconnect terminal blocks



Current transformer circuit with longitudinal switching disconnect terminal blocks
a = Normal operation b = Measured value test
c = Transformer short circuit d = Relay test

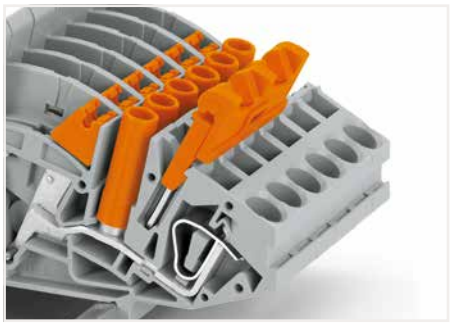
CAGE CLAMP® terminates the following copper conductors:
solid

stranded

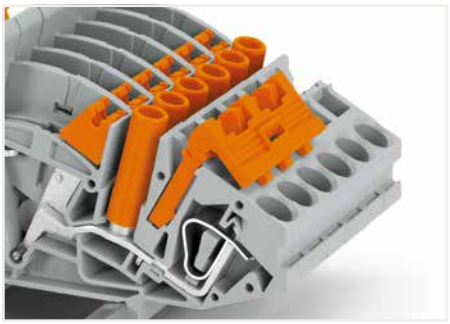
fine-stranded, also with tinned single strands

For aluminum conductors, see notes in Section 14. With ferruled conductors, it is necessary to use a terminal block one size larger than the conductor's nominal cross section.

Jumpers with Safety Lid; for Longitudinal Switching Disconnect Terminal Blocks
282 Series

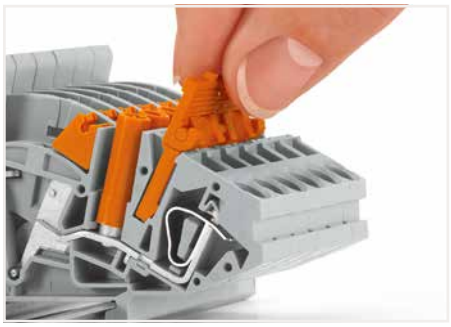


Jumper with safety lid
Jumper in pre-locked position



Jumper with safety lid
Longitudinal switching disconnect terminal blocks with inserted jumper, including safety lid

Jumper with safety lid
Jumper with raised safety lid



Jumper with safety lid
Removing a jumper via safety lid.

fine-stranded,
tip-bonded

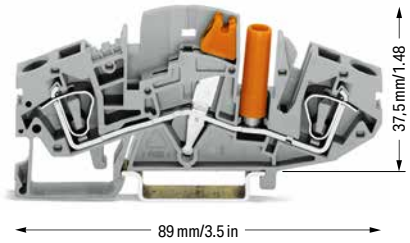
fine-stranded,
with ferrule
(gastight crimped)

fine-stranded,
with pin terminal
(gastight crimped)

Transverse Switching Terminal Block, Longitudinal Switching Disconnect Terminal Block and Through Terminal Block (e.g., for Current Transformer Circuits)

6 mm²; 282 Series

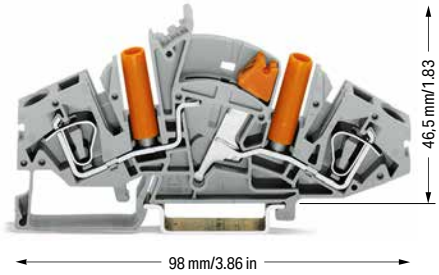
Technical Data	
0.2 … 6 mm²	24 … 10 AWG
500 V/6 kV/3 ❶	600 V, 30 A
I_N 30 A	300 V, 36 A
Terminal block width: 8 mm / 0.315 inch	
12 … 13 mm / 0.47 … 0.51 inch	



2-conductor disconnect/test terminal block; transverse switching; with touch-proof test socket; for 4 mm Ø test plug

Color	Item No.	Pack. Unit
gray	282-811 ❷	20

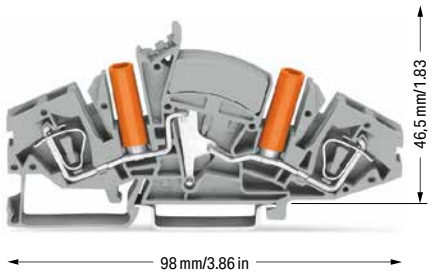
Technical Data	
0.2 … 6 mm²	24 … 10 AWG
500 V/6 kV/3 ❶	600 V, 30 A
I_N 30 A	300 V, 36 A
Terminal block width: 8 mm / 0.315 inch	
12 … 13 mm / 0.47 … 0.51 inch	



2-conductor disconnect/test terminal block; longitudinal switching; with touch-proof test sockets; for 4 mm Ø test plugs

Color	Item No.	Pack. Unit
gray	282-821 ❷	20

Technical Data	
0.2 … 6 mm²	24 … 10 AWG
500 V/6 kV/3 ❶	
I_N 30 A	
Terminal block width: 8 mm / 0.315 inch	
12 … 13 mm / 0.47 … 0.51 inch	



2-conductor through terminal block; with touch-proof test sockets; for 4 mm Ø test plugs

Color	Item No.	Pack. Unit
gray	282-841	20

5

Accessories; item-specific

End and separator plate; 1.5 mm thick

orange	282-366	50 (10)
gray	282-361	50 (10)

Accessories; item-specific

End and separator plate; 1.5 mm thick

orange	282-365	50 (10)
gray	282-360	50 (10)

Accessories; item-specific

End and separator plate; 1.5 mm thick

orange	282-365	50 (10)
gray	282-360	50 (10)

Locking cover; mechanically locks multiple links; transparent

2-way	282-442	50 (10)
3-way	282-443	50 (10)
4-way	282-444	50 (10)
5-way	282-445	50 (10)
6-way	282-446	50 (10)

Accessories; 282 Series

Appropriate marking systems: WMB/WMB Inline/WFB

Lock-out device; for disconnect link

yellow	282-370	100 (25)

Coupling device; mechanically locks multiple links; yellow

2-way	282-372	50 (10)
3-way	282-373	50 (10)
4-way	282-374	50 (10)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks

yellow	282-415	100 (20)

Jumper; insulated; I_N 30 A; orange

2-way	282-432	50 (10)
3-way	282-433	50 (10)
4-way	282-434	50 (10)
5-way	282-435	50 (10)
6-way	282-436	50 (10)
7-way	282-437	50 (10)
8-way	282-438	50 (10)
9-way	282-439	50 (10)
10-way	282-440	50 (10)

Jumper with safety lid; insulated; I_N 30 A; orange

2-way	282-432/100-000	50 (10
3-way	282-433/100-000	50 (10
4-way	282-434/100-000	50 (10

Jumper; insulated; I_N 30 A; orange

1-3-5	282-435/011-000	50 (10
1-4-5	282-435/301-000	50 (10
1-3-4-5	282-435/300-000	50 (10
1-2-4-6	282-436/301-000	50 (10
1-4-6	282-436/304-000	50 (10
1-3-5-7	282-437/011-000	50 (10
1-4-7	282-437/012-000	50 (10
1-2-5-8	282-438/300-000	50 (10
1-4-7-8	282-438/301-000	50 (10
1-3-5-7-9	282-439/011-000	50 (10

Collective jumper carrier; for DIN-35 rail; compatible with jumpers for transverse switching terminal block (282-811) and longitudinal switching disconnect terminal block (282-821)

gray	282-369	25

WMB marking card; 10 strips with 10 markers/card; stretchable 5 … 5.2 mm; yellow

k/l (50x)	794-5553/000-002	5

WMB marking card; 10 strips with 10 markers/card; stretchable 5 … 5.2 mm; blue

U/V (50x)	794-5554/000-006	5

WMB marking card; white; 10 strips with 10 markers/card; stretchable 5 … 5.2 mm

plain	793-5501	5

WMB marking card; plain; 10 strips with 10 markers/card; stretchable 5 … 5.2 mm

yellow	793-5501/000-002	5
red	793-5501/000-005	5
blue	793-5501/000-006	5
gray	793-5501/000-007	5
orange	793-5501/000-012	5
light green	793-5501/000-017	5
green	793-5501/000-023	5
violet	793-5501/000-024	5

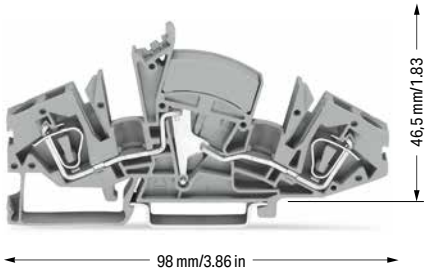
Screwless end stop; for DIN-35 rail; 6 mm wide

gray	249-116	100 (25)

Screwless end stop; for DIN-35 rail; 10 mm wide

gray	249-117	50 (25)

Technical Data	
0.2 … 6 mm²	24 … 10 AWG
500 V/6 kV/3 ❶	
I_N 30 A	
Terminal block width: 8 mm / 0.315 inch	
12 … 13 mm / 0.47 … 0.51 inch	



❶ 500 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

❷ Max. height when rotating the disconnect link (incl. locking cover): 45 mm / 1.77 inch
For operating stickers, please refer to our online catalog:
- for 282-811: Item No. 210-424
- for 282-821: Item No. 210-423

Approvals and corresponding ratings, visit www.wago.com

2-conductor through terminal block; without test sockets

Color	Item No.	Pack. Unit
gray	282-841/049-000	20

Accessories; item-specific

End and separator plate; 1.5 mm thick

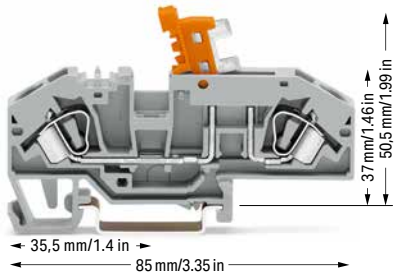
orange	282-365	50 (10)
gray	282-360	50 (10)

5

Disconnect Terminal Block and Ground Conductor Disconnect Terminal Block and Through Terminal Block of Same Profile

6 mm²; 282 Series

Technical Data	
0.2 … 6 mm²	24 … 10 AWG
400 V/6 kV/3 ❶	600 V, 30 A
I_N 30 A	300 V, 35 A
Terminal block width: 8 mm / 0.315 inch	
12 … 13 mm / 0.47 … 0.51 inch	

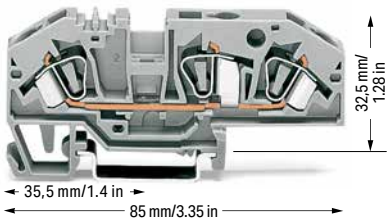


2-conductor disconnect terminal block; with test point; orange disconnect link

Color	Item No.	Pack. Unit
gray	282-697	25
blue	282-695	25

Other terminal blocks with the same profile:		
Through	282-699	Page 292

Technical Data	
0.2 … 6 mm²	24 … 10 AWG
800 V/8 kV/3 ❶	600 V, 30 A
I_N 41 A	600 V, 35 A
Terminal block width: 8 mm / 0.315 inch	
12 … 13 mm / 0.47 … 0.51 inch	

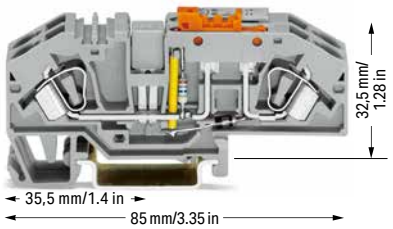


3-conductor through terminal block; with test point; same profile as disconnect terminal blocks

Color	Item No.	Pack. Unit
gray	282-699	25
blue	282-694	25

Other terminal blocks with the same profile:		
Disconnect	282-697	Page 292
Ground cond. disc.	282-640	Page 292
Fuse	282-696	Page 294

Technical Data	
0.2 … 6 mm²	24 … 10 AWG
Terminal block width: 16 mm / 0.63 inch	
12 … 13 mm / 0.47 … 0.51 inch	



Ground conductor disconnect terminal block; with test point; orange disconnect link; gray

	Item No.	Pack. Unit
24 V	282-640	12
48 V	282-641	12
120 V	282-638	12
230 V	282-639	12

Other terminal blocks with the same profile:		
Through	282-699	Page 292

Accessories; item-specific

Adjacent jumper; insulated; I_N 41 A

gray	282-402	100 (25)

Alternate jumper; insulated; I_N 41 A

gray	282-409	100 (25)

Test plug adapter; 8.3 mm wide; for 4 mm Ø test plug; for 1.5 … 10 mm² terminal blocks

gray	209-170	50 (25)

Accessories; item-specific

Adjacent jumper; insulated; I_N 41 A

gray	282-402	100 (25)

Alternate jumper; insulated; I_N 41 A

gray	282-409	100 (25)

Test plug adapter; 8.3 mm wide; for 4 mm Ø test plug; for 1.5 … 10 mm² terminal blocks

gray	209-170	50 (25)

Accessories; 282 Series

Appropriate marking systems: WMB/WMB Inline/WFB

End plate; 2 mm thick

orange	282-333	100 (25)
gray	282-334	100 (25)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks

yellow	282-415	100 (25)

Screwless end stop; for DIN-35 rail; 6 mm wide

gray	249-116	100 (25)

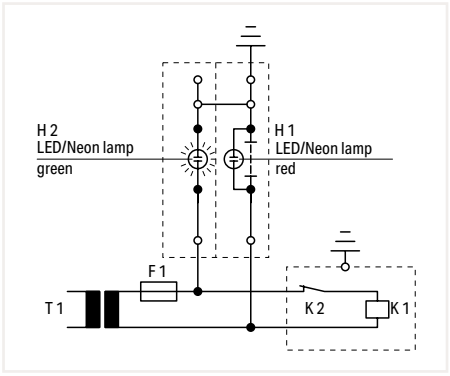
Screwless end stop; for DIN-35 rail; 10 mm wide

gray	249-117	50 (25)

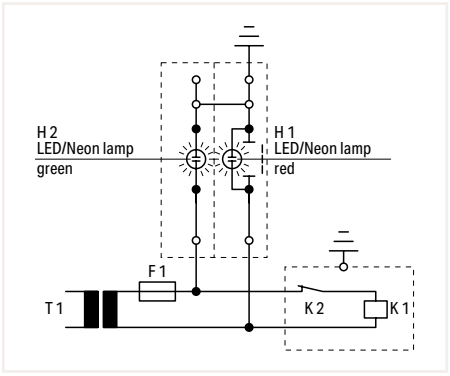
❶ 400 V / 800 V = rated voltage
6 kV / 8 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

Approvals and corresponding ratings, visit www.wago.com

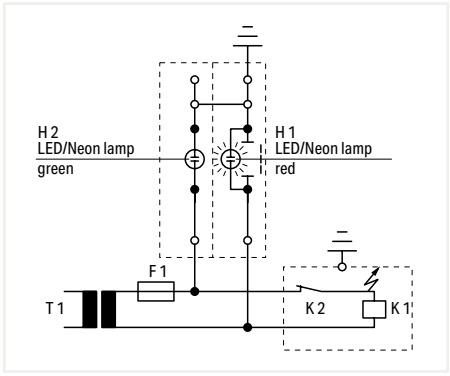
Ground conductor disconnect terminal block – top view



Operating condition
Slide link closed, auxiliary circuit grounded, green LED/neon lamp illuminates.



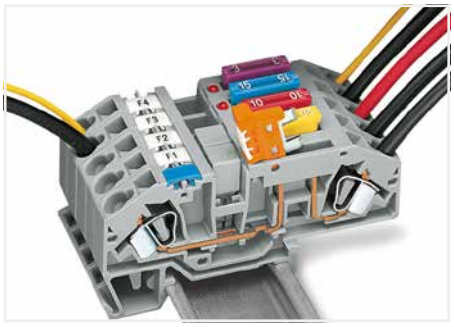
Test condition – no grounding
Slide link open, auxiliary circuit not grounded.



Test condition – grounding
Slide link open, auxiliary circuit not grounded, red LED/ neon lamp illuminates.

Testing via conductor entry.

Testing via jumper contact slot.



Power supply via disconnect link – disconnecting all outputs.

IEC 60204/DIN VDE 0113 "Safety of machinery – Electrical equipment of machines – Part 1: General requirements," Section 9.4.3.1:

Ground faults on control circuits must not cause unintentional starting, hazardous movements, or prevent stopping of the machine.

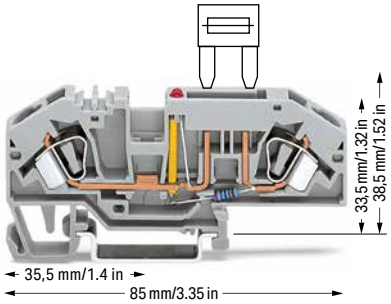
In order to fulfill this requirement, a connection to the protective bonding circuit must be provided in accordance with Section 8.2 and the devices must be connected as described in Section 9.1.4. Control circuits fed from a transformer and not connected to the protective bonding circuit must be provided with an insulation monitoring device (e.g., residual current device), which either indicates a ground fault or interrupts the circuit automatically after a ground fault.

In the case of electronic circuits, the connection of one side of the control circuit to the protective bonding circuit in accordance with Section 9.1.4 can prevent unintentional operation. When this does not help, or if due to other reasons that electronic circuits cannot be connected to the protective bonding circuit, other measures must be taken to achieve the same level of safety.

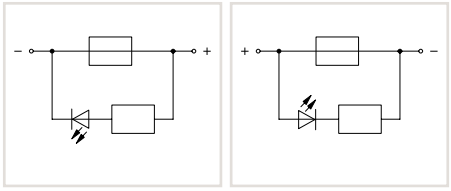
Multipole control switches that interrupt all live conductors must be used where the control circuit is directly connected between the phase conductors of the supply or between a phase conductor and a neutral conductor, which is either not grounded or grounded through a high impedance. This is required for starting or stopping machine functions, which can cause a hazardous situation including: damaging the machine or halting work in progress in the event of unintentional starting or failure to stop.

Fuse Terminal Block for Automotive Blade-Style Fuses
6 mm²; 282 Series

Technical Data	
0.2 … 6 mm²	24 … 10 AWG
400 V/6 kV/3 ❶ ❷	12 V, 30 A
I_N 25 A (30 A) ❸	12 V, 30 A
Terminal block width: 8 mm / 0.315 inch	
12 … 13 mm / 0.47 … 0.51 inch	



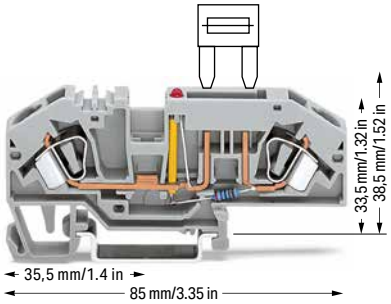
282-698/281-429 282-698/281-449



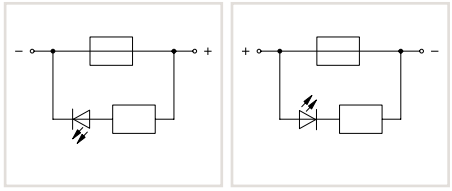
2-conductor fuse terminal block for automotive blade-style fuses; 12 V; with test point; with blown fuse indication by LED; LED power consumption: 4.8 mA
Electrical ratings are given by the fuse and blown fuse indication. Blade-style fuses: Observe touch-proof protection for 42 V and higher voltages!

Color	Item No.	Pack. Unit
gray	282-698/281-429	25
gray	282-698/281-449	25

Technical Data	
0.2 … 6 mm²	24 … 10 AWG
400 V/6 kV/3 ❶ ❷	24 V, 30 A
I_N 25 A (30 A) ❸	24 V, 30 A
Terminal block width: 8 mm / 0.315 inch	
12 … 13 mm / 0.47 … 0.51 inch	



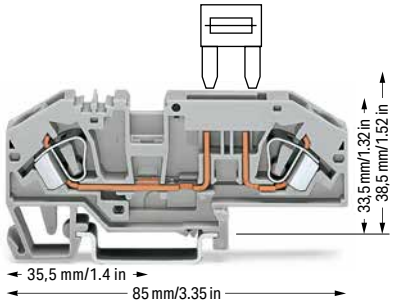
282-698/281-413 282-698/281-434



2-conductor fuse terminal block for automotive blade-style fuses; 24 V; with test point; with blown fuse indication by LED; LED power consumption: 4.8 mA
Electrical ratings are given by the fuse and blown fuse indication. Blade-style fuses: Observe touch-proof protection for 42 V and higher voltages!

Color	Item No.	Pack. Unit
gray	282-698/281-413	25
gray	282-698/281-434	25

Technical Data	
0.2 … 6 mm²	24 … 10 AWG
400 V/6 kV/3 ❶ ❷	600 V, 30 A
I_N 25 A (30 A) ❸	24 V, 30 A
Terminal block width: 8 mm / 0.315 inch	
12 … 13 mm / 0.47 … 0.51 inch	



2-conductor fuse terminal block for automotive blade-style fuses; with test point; without blown fuse indication; Electrical ratings are given by the fuse. Blade-style fuses: Observe touch-proof protection for 42 V and higher voltages!

Color	Item No.	Pack. Unit
gray	282-696	25

Other terminal blocks with the same profile:		
Through	282-699	Page 292

Accessories; 282 Series

Appropriate marking systems: WMB/Marking strips

End plate; 2 mm thick

gray	282-333	100 (25)
orange	282-334	100 (25)

Adjacent jumper; insulated; I_N 41 A

gray	282-402	100 (25)
yellow-green	282-422	100 (25)

Alternate jumper; insulated; I_N 41 A

gray	282-409	100 (25)

Test plug adapter; 8.3 mm wide; for 4 mm Ø test plug; for 1.5 … 10 mm² terminal blocks

gray	209-170	50 (25)

Screwless end stop; for DIN-35 rail; 6 mm wide

gray	249-116	100 (25)

Screwless end stop; for DIN-35 rail; 10 mm wide

gray	249-117	50 (25)

❶ 400 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree

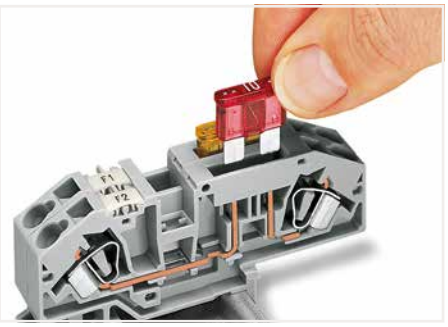
❷ Electrical ratings are given by the fuse (see page 308).

❸ LED power consumption: 4.8 mA

Blade-style fuses are not offered by WAGO.
Thermal automotive circuit breakers are not offered by WAGO.
WAGO recommends automotive circuit breakers from ETA.

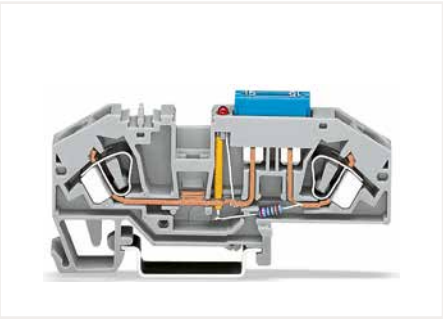
Please observe the application notes:
Marking, from page 588

Approvals and corresponding ratings, visit www.wago.com

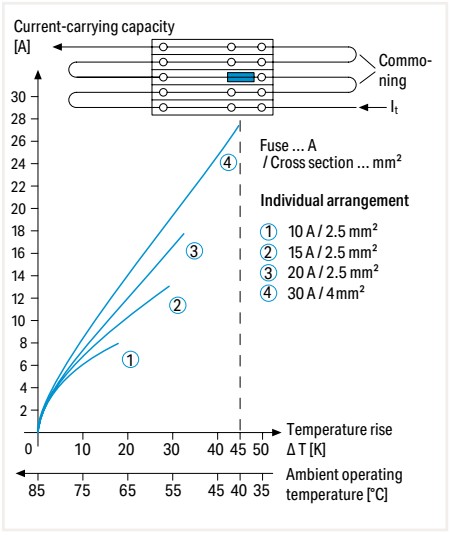


Inserting a fuse.

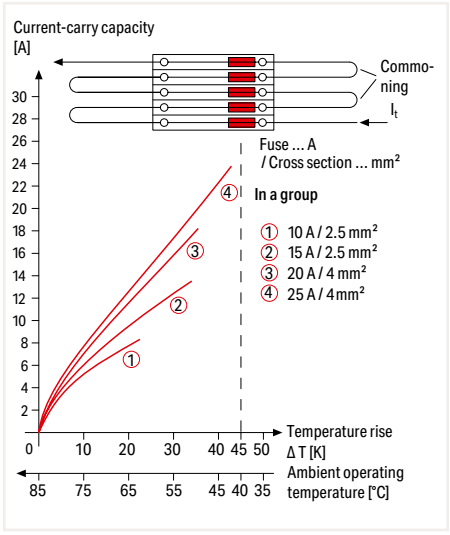
Blown fuse indication by LED



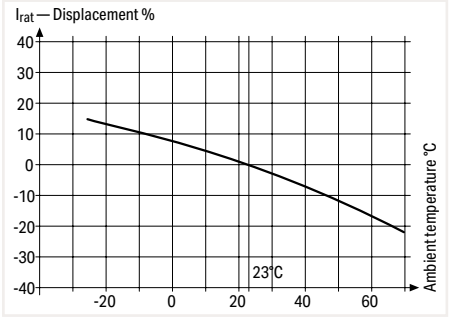
2-conductor fuse terminal block with mini-automotive blade-style fuse



Application Notes on Fuse Terminal Blocks
Diagram: Individual arrangement



Application Notes on Fuse Terminal Blocks
Diagram: Block arrangement



Application Notes on Fuse Terminal Blocks

Nominal current ratings for fuse cartridges are defined differently in international standards.
This is why the recommended continuous current-carrying capacity of the fuses is a max. 80% of their nominal current according to DIN 72581/Part 3 (for a surrounding air temperature of 23°C).
Selecting the correct fuse cartridge is important for product safety within applications, as well as for fuse cartridge service life and reliability. Fuse cartridges will only operate perfectly as protection components (break-off point) if they are properly selected and used as intended (i.e., according to the state of the technology and valid specifications, as well as data sheet characteristics), according to basic safety requirements (i.e., persons, animals and property must be protected against hazards).

Information from the mini-automotive, blade-type fuse manufacturers

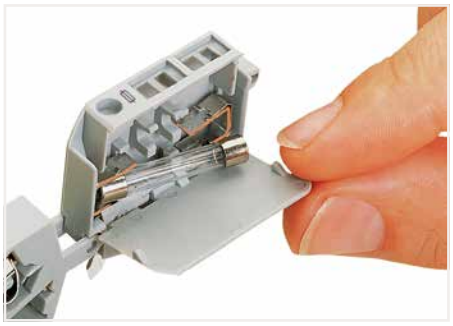
Derating T_{amb} /°C	%	F_T
– 25	14	0.877
– 20	13	0.885
– 15	12	0.893
– 10	11	0.901
– 5	10	0.909
0	9	0.917
5	8	0.926
10	6	0.943
15	4	0.962
20	2	0.980
23	0	1.000
30	– 2	1.020
35	– 4	1.042
40	– 6	1.064
45	– 8	1.087
50	– 10	1.111
55	– 13	1.149
60	– 16	1.190
65	– 19	1.235
70	– 22	1.282

With regard to product safety, fuse cartridges must generally be tested both under normal and faulty operating conditions within your application.

Fused Disconnect Terminal Blocks with a Pivoting Fuse Holder; for Glass Cartridge Fuses
282 Series
Description and Installation

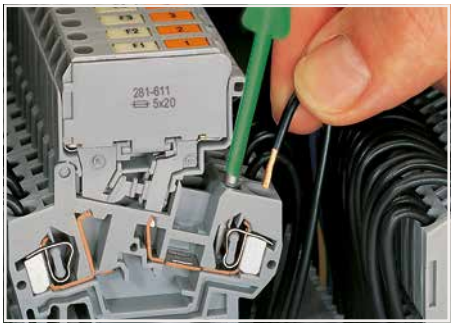
Blown fuse indication by LED or neon lamp

Fuse replacement:
Before replacing a fuse, pivot the fuse holder into the locked open position.

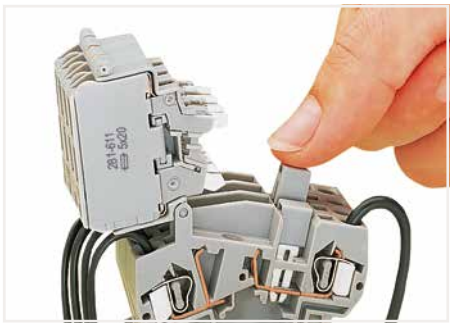


Fuse replacement:
One end of the fuse is automatically ejected from the holder when opening the cover.

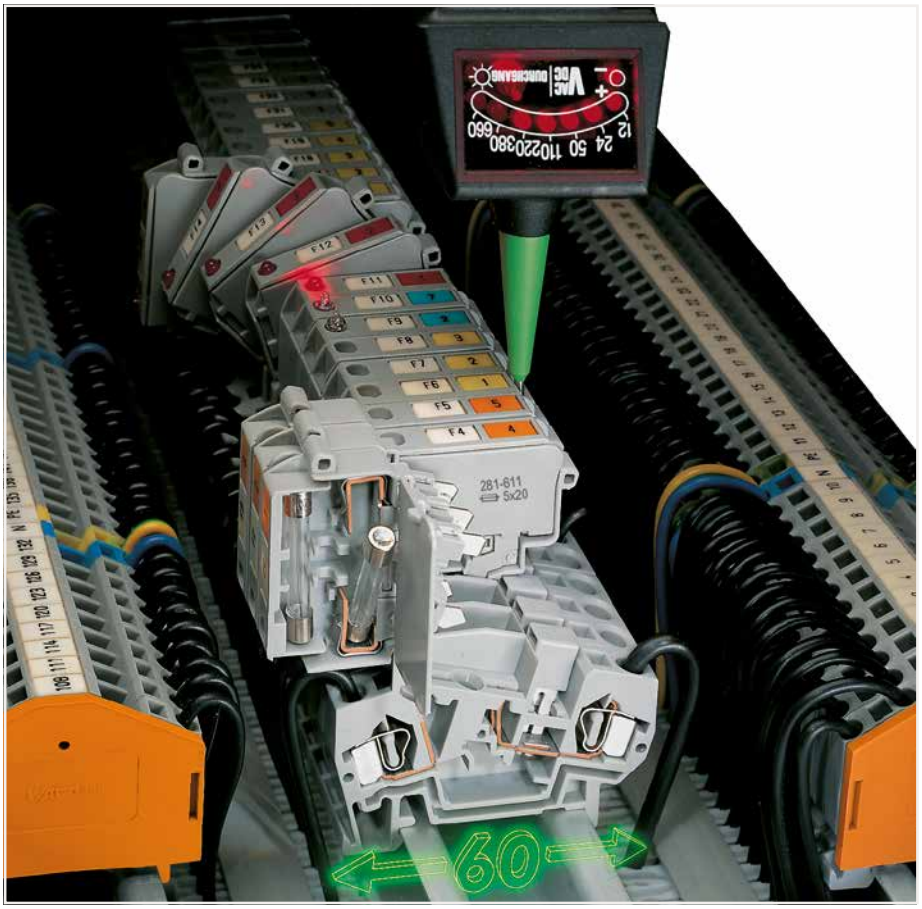
5

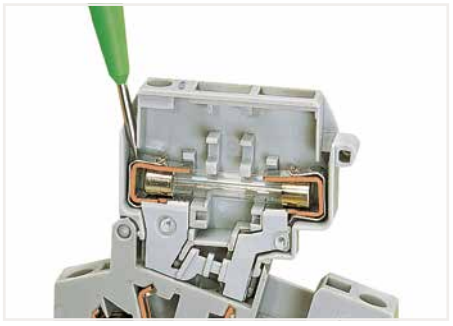


CAGE CLAMP® connection
Inserting a conductor.
With ferruled conductors, it is necessary to use a terminal block one size smaller than the conductor's nominal cross section.

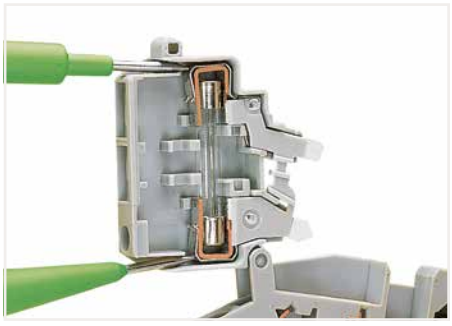


Commoning
Distributing current to several fuse-protected circuits via insulated push-in type jumpers.





Voltage test, either at input or output with fuse holder in closed position (live)



Through test with fuse holder in open position (no voltage)

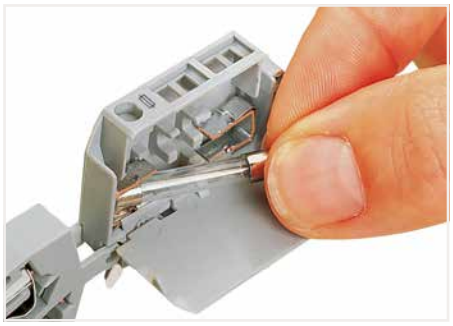
Voltage test at input in the test slot of the current bar

CAGE CLAMP® terminates the following copper conductors:
solid

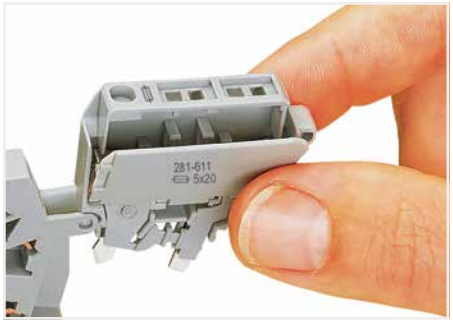
stranded

fine-stranded, also with tinned single strands

For aluminum conductors, see notes in Section 14. With ferruled conductors, it is necessary to use a terminal block one size smaller than the conductor's nominal cross section.

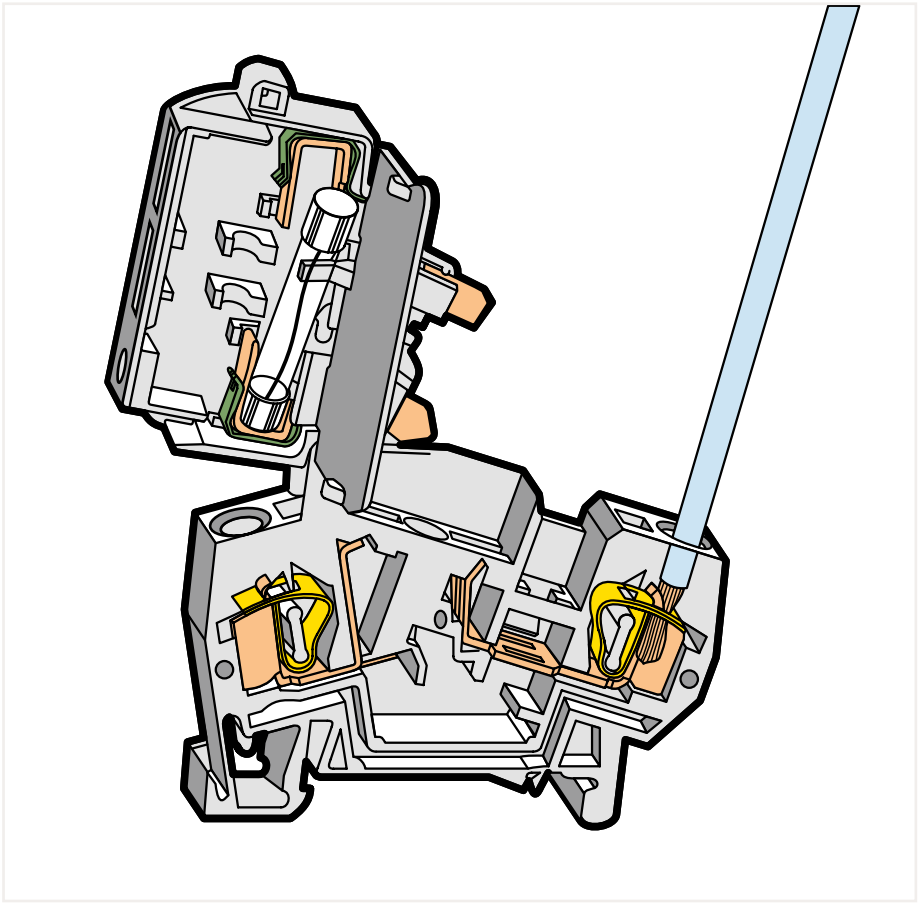


Fuse replacement:
Easily removing a fuse by hand.



Fuse replacement:
Insert a new fuse and snap the cover closed.

Storing a spare fuse (fuse holder without blown fuse indication).

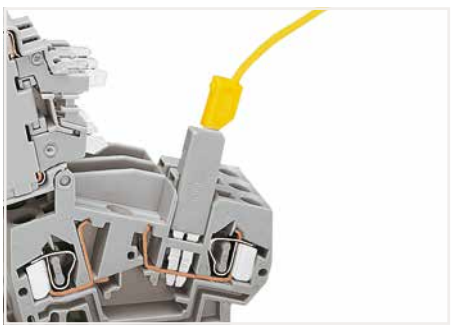


Touch-proof protection in all positions of the fuse holder

Fuse holder will remain safely locked open in vertical assemblies.

Testing voltage at the output via separate test slot.

Measuring current between jumper slot and separate test slot.



Testing voltage (input side) via test plug adapter (280-404, shown) or test plug (281-407).

fine-stranded,
tip-bonded

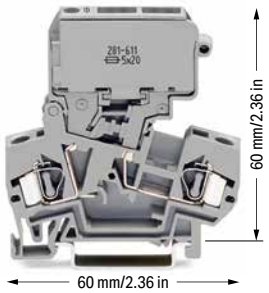
fine-stranded,
with ferrule
(gastight crimped)

fine-stranded,
with pin terminal
(gastight crimped)

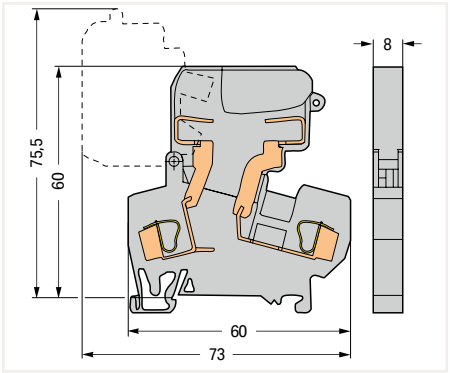
Fused Disconnect Terminal Block with a Pivoting Fuse Holder; for 5 x 20 mm, 5 x 25 mm and 5 x 30 mm Glass Cartridge Fuses

4 mm²; 281 Series

Technical Data	
0.08 … 4 mm²	28 … 12 AWG
800 V/8 kV/3 ❶ ❷	600 V, 10 A
I_N 10 A	600 V, 10 A
Terminal block width: 8 mm / 0.315 inch	
9 … 10 mm / 0.35 … 0.39 inch	

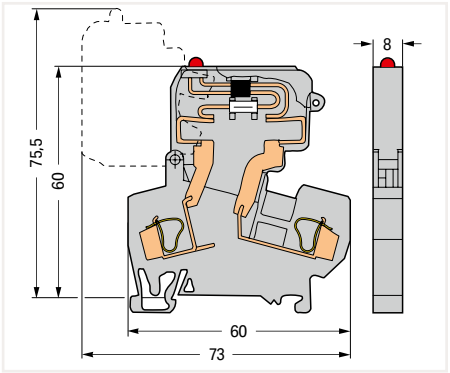


Dimensions (in mm):

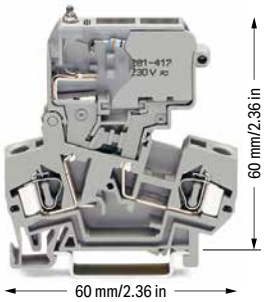


Technical Data	
0.08 … 4 mm²	28 … 12 AWG
800 V/8 kV/3 ❶ ❷	30 V, 10 A
I_N 10 A	230 V, 10 A
Terminal block width: 8 mm / 0.315 inch	
9 … 10 mm / 0.35 … 0.39 inch	

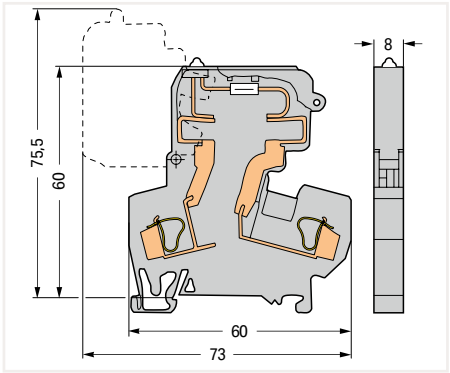
Dimensions (in mm):



Technical Data	
0.08 … 4 mm²	28 … 12 AWG
800 V/8 kV/3 ❶ ❷	220 V, 10 A
I_N 10 A	230 V, 10 A
Terminal block width: 8 mm / 0.315 inch	
9 … 10 mm / 0.35 … 0.39 inch	



Dimensions (in mm):



Fused disconnect terminal block with a pivoting fuse holder; for 5 x 20 mm glass cartridge fuse; without blown fuse indication
Electrical ratings are given by the fuse.

Color	Item No.	Pack. Unit
gray	281-611	50
orange	281-616	50

Fused disconnect terminal block with a pivoting fuse holder; for 5 x 20 mm glass cartridge fuse; with blown fuse indication by LED; gray
Electrical ratings are given by the fuse and blown fuse indication. Leakage current in case of a blown fuse: LED 6 mA

	Item No.	Pack. Unit
15 … 30 V	281-611/281-541	50
30 … 65 V	281-611/281-542	50

Fused disconnect terminal block with a pivoting fuse holder; for 5 x 20 mm glass cartridge fuse; with blown fuse indication by neon lamp; gray
Electrical ratings are given by the fuse and blown fuse indication. Leakage current in case of a blown fuse: Neon lamp < 0.4 mA

	Item No.	Pack. Unit
230 V	281-611/281-417	50
120 V	281-611/281-418	50

Fused disconnect terminal block with a pivoting fuse holder; for 5 x 25 mm glass cartridge fuse; without blown fuse indication
Electrical ratings are given by the fuse.

gray	281-612	50

Fused disconnect terminal block with a pivoting fuse holder; for 5 x 25 mm glass cartridge fuse; with blown fuse indication by LED; gray
Electrical ratings are given by the fuse and blown fuse indication. Leakage current in case of a blown fuse: LED 6 mA

15 … 30 V	281-612/281-541	50
30 … 65 V	281-612/281-542	50

Fused disconnect terminal block with a pivoting fuse holder; for 5 x 25 mm glass cartridge fuse; with blown fuse indication by neon lamp; gray
Electrical ratings are given by the fuse and blown fuse indication. Leakage current in case of a blown fuse: Neon lamp < 0.4 mA

230 V	281-612/281-417	50
120 V	281-612/281-418	50

Fused disconnect terminal block with a pivoting fuse holder; for 5 x 30 mm glass cartridge fuse; without blown fuse indication
Electrical ratings are given by the fuse.

gray	281-622	50

Fused disconnect terminal block with a pivoting fuse holder; for 5 x 30 mm glass cartridge fuse; with blown fuse indication by LED; gray
Electrical ratings are given by the fuse and blown fuse indication. Leakage current in case of a blown fuse: LED 6 mA

15 … 30 V	281-622/281-541	50
30 … 65 V	281-622/281-542	

Fused disconnect terminal block with a pivoting fuse holder; for 5 x 30 mm glass cartridge fuse; with blown fuse indication by neon lamp; gray
Electrical ratings are given by the fuse and blown fuse indication. Leakage current in case of a blown fuse: Neon lamp < 0.4 mA

230 V	281-622/281-417	50
120 V	281-622/281-418	

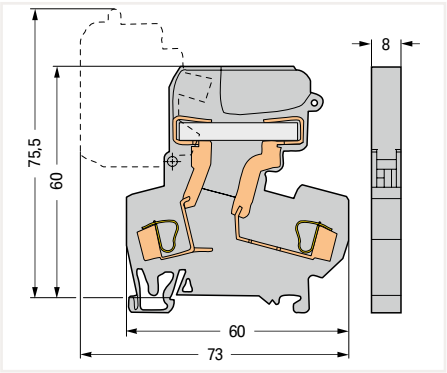
Glass cartridge fuses are available upon request.

Glass cartridge fuses are available upon request.

Glass cartridge fuses are available upon request.

Technical Data	
0.08 … 4 mm²	28 … 12 AWG
800 V/8 kV/3 ❶	600 V, 16 A
I_N 16 A	
Terminal block width: 8 mm / 0.315 inch	
9 … 10 mm / 0.35 … 0.39 inch	

Dimensions (in mm):



2-conductor disconnect terminal block

Color	Item No.	Pack. Unit
gray	281-624	100
orange	281-672	100

❶ 800 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

❷ Electrical ratings are given by the fuse (see page 308).

Please observe the application notes:
Marking, from page 588

Approvals and corresponding ratings,
visit www.wago.com

Accessories; 281 Series

Appropriate marking systems:
WMB/WMB Inline/WFB

End and intermediate plate; 2.5 mm thick

gray	281-309	100 (25)
orange	281-311	100 (25)

Adjacent jumper; insulated; I_N = I_N terminal block

gray	281-402	200 (25)

Collective carrier for adjacent jumpers

gray	209-100	50 (25)

Push-in type wire jumper; insulated; 0.75 mm² conductor cross section; I_N 9 A

L = 60 mm	249-125	100 (10)
L = 110 mm	249-126	100 (10)
L = 250 mm	249-127	100 (10)

Test plug adapter; 5 mm wide; for 210-137 Test Plug (2.3 mm Ø); for 1.5 … 4 mm² terminal blocks

gray	280-404	100 (25)

Test plug adapter; 6 mm wide; with CAGE CLAMP®; for 0.08 … 2.5 mm²

I_N 24 A	281-407	100 (25)

Test plug; with 500 mm cable; 2.3 mm Ø; max. 42 V

yellow	210-137	50

Interlocking link; mechanically locks multiple links; 1 m long

transparent	210-254	1

Screwless end stop; for DIN-35 rail; 6 mm wide

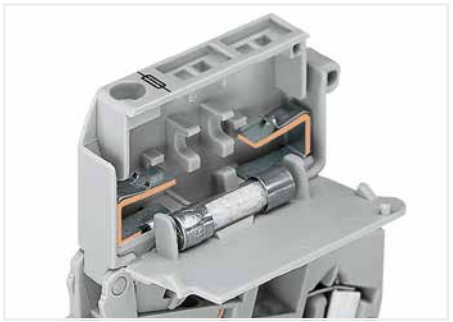
gray	249-116	100 (25)

Screwless end stop; for DIN-35 rail; 10 mm wide

gray	249-117	50 (25)

Fused disconnect or disconnect terminal blocks with a width of 8 mm can be assembled adjacently. At the end of an assembly or if there is no adjacent fused disconnect or disconnect terminal block, an end or intermediate plate must be used.

All fuse holders are printed with correct fuse size.



5 x 20 mm, 5 x 25 mm and ¼" x 1" fuse holders are fitted with stops on the inside of the cover.

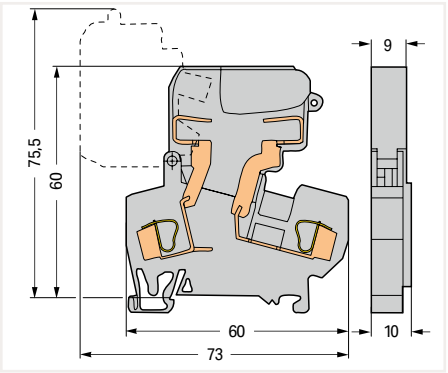
5

Fused Disconnect Terminal Block with a Pivoting Fuse Holder; for ¼" x 1" and ¼" x 1¼" Glass Cartridge Fuses

4 mm²; 281 Series

Technical Data	
0.08 … 4 mm²	28 … 12 AWG
800 V/8 kV/3 ❶ ❷	600 V, 10 A
I_N 10 A	600 V, 10 A
Terminal block width: 10 mm / 0.394 inch	
9 … 10 mm / 0.35 … 0.39 inch	

Dimensions (in mm):



Fused disconnect terminal block with a pivoting fuse holder; for ¼" x 1" glass cartridge fuse; without blown fuse indication
Electrical ratings are given by the fuse.

Color	Item No.	Pack. Unit
gray	281-613	50

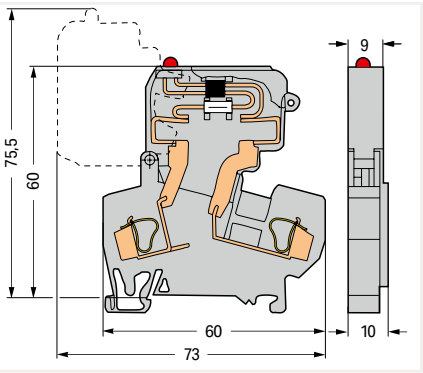
Fused disconnect terminal block with a pivoting fuse holder; for ¼" x 1¼" glass cartridge fuse; without blown fuse indication
Electrical ratings are given by the fuse.

gray	281-623	50

Glass cartridge fuses are available upon request.

Technical Data	
0.08 … 4 mm²	28 … 12 AWG
800 V/8 kV/3 ❶ ❷	30 V, 10 A
I_N 10 A	30 V, 10 A
Terminal block width: 10 mm / 0.394 inch	
9 … 10 mm / 0.35 … 0.39 inch	

Dimensions (in mm):



Fused disconnect terminal block with a pivoting fuse holder; for ¼" x 1" glass cartridge fuse; with blown fuse indication by LED; gray
Electrical ratings are given by the fuse and blown fuse indication. Leakage current in case of a blown fuse: LED 6 mA

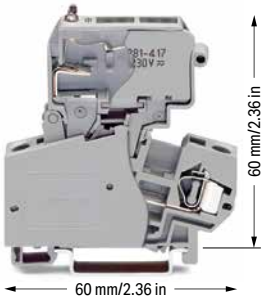
	Item No.	Pack. Unit
15 … 30 V	281-613/281-541	50
30 … 65 V	281-613/281-542	50

Fused disconnect terminal block with a pivoting fuse holder; for ¼" x 1¼" glass cartridge fuse; with blown fuse indication by LED; gray
Electrical ratings are given by the fuse and blown fuse indication. Leakage current in case of a blown fuse: LED 6 mA

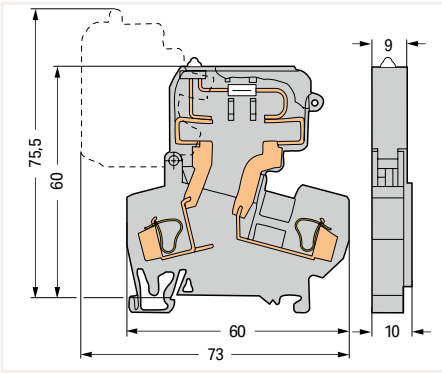
15 … 30 V	281-623/281-541	50
30 … 65 V	281-623/281-542	50

Glass cartridge fuses are available upon request.

Technical Data	
0.08 … 4 mm²	28 … 12 AWG
800 V/8 kV/3 ❶ ❷	220 V, 10 A
I_N 10 A	100 V, 10 A
Terminal block width: 10 mm / 0.394 inch	
9 … 10 mm / 0.35 … 0.39 inch	



Dimensions (in mm):



Fused disconnect terminal block with a pivoting fuse holder; for ¼" x 1" glass cartridge fuse; with blown fuse indication by neon lamp; gray
Electrical ratings are given by the fuse and blown fuse indication. Leakage current in case of a blown fuse: Neon lamp < 0.4 mA

	Item No.	Pack. Unit
230 V	281-613/281-417	50
120 V	281-613/281-418	50

Fused disconnect terminal block with a pivoting fuse holder; for ¼" x 1¼" glass cartridge fuse; with blown fuse indication by neon lamp; gray
Electrical ratings are given by the fuse and blown fuse indication. Leakage current in case of a blown fuse: Neon lamp < 0.4 mA

230 V	281-623/281-417	50
120 V	281-623/281-418	50

Glass cartridge fuses are available upon request.

❶ 800 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

❷ Electrical ratings are given by the fuse (see page 308).

Please observe the application notes:
Marking, from page 588

Approvals and corresponding ratings,
visit www.wago.com

Accessories; 281 Series

Appropriate marking systems:
WMB/WMB Inline/WFB

End and intermediate plate; 2.5 mm thick

gray	**281-309**	100 (25)
orange	**281-311**	100 (25)

Adjacent jumper; insulated; I_N = I_N terminal block

gray	**281-402**	200 (25)

Collective carrier for adjacent jumpers

gray	**209-100**	50 (25)

Push-in type wire jumper; insulated; 0.75 mm² conductor cross section; I_N 9 A

L = 60 mm	**249-125**	100 (10)
L = 110 mm	**249-126**	100 (10)
L = 250 mm	**249-127**	100 (10)

Test plug adapter; 5 mm wide; for 210-137 Test Plug (2.3 mm Ø); for 1.5 … 4 mm² terminal blocks

gray	**280-404**	100 (25)

Test plug adapter; 6 mm wide; with CAGE CLAMP®; for 0.08 … 2.5 mm²

I_N 24 A	**281-407**	100 (25)

Test plug; with 500 mm cable; 2.3 mm Ø; max. 42 V

yellow	**210-137**	50

Interlocking link; mechanically locks multiple links; 1 m long

transparent	**210-254**	1

Screwless end stop; for DIN-35 rail; 6 mm wide

gray	**249-116**	100 (25)

Screwless end stop; for DIN-35 rail; 10 mm wide

gray	**249-117**	50 (25)

An intermediate plate is supplied with all 10 mm wide fused disconnect terminal blocks. At the end of an assembly or if there is no adjacent fused disconnect terminal block, an end or intermediate plate must be used.

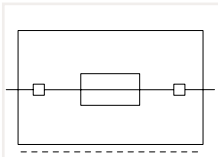
Each fuse holder features two marker slots for custom WMB Multi markers (example shows 8 mm wide terminal blocks).

Ganging several fuse holders with an interlocking link (example shows 8 mm wide terminal blocks).

Fuse Plug on Carrier Terminal Block 4 mm²
281 Series

Technical Data
250 V / I_N 6,3 A ❹
Plug width: 6 mm / 0.236 inch

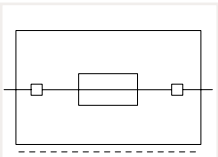
281-511



Fuse plug with pull-tab; for 5 x 20 mm and 5 x 25 mm glass cartridge fuses; 6 mm wide
Electrical ratings are given by the fuse.

Color	Item No.	Pack. Unit
gray	281-511	50

281-512

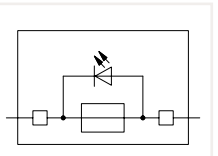


Fuse plug with pull-tab; for 5 x 20 mm and 5 x 25 mm glass cartridge fuses; with hole for one LED (for self-assembly); 6 mm wide; gray
Electrical ratings are given by the fuse and blown fuse indication.

Color	Item No.	Pack. Unit
gray	281-512	50

Technical Data
250 V / I_N 6,3 A ❹
Plug width: 6 mm / 0.236 inch

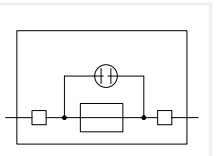
281-512/281-501



Fuse plug with pull-tab; for 5 x 20 mm and 5 x 25 mm glass cartridge fuses; with LED; 24 VAC/DC; 6 mm wide
Electrical ratings are given by the fuse and blown fuse indication. Leakage current in case of a blown fuse: LED 5 … 20 mA

Color	Item No.	Pack. Unit
gray	281-512/281-501	50

281-512/281-418



Fuse plug with pull-tab; for 5 x 20 mm and 5 x 25 mm glass cartridge fuses; with neon lamp; 120 VAC/DC; 6 mm wide
Electrical ratings are given by the fuse and blown fuse indication. Leakage current in case of a blown fuse: Neon lamp < 0.4 mA

Color	Item No.	Pack. Unit
gray	281-512/281-418	50

Fuse plug with pull-tab; for 5 x 20 mm and 5 x 25 mm glass cartridge fuses; with neon lamp; 230 VAC/DC; 6 mm wide
Electrical ratings are given by the fuse and blown fuse indication. Leakage current in case of a blown fuse: Neon lamp < 0.4 mA

Color	Item No.	Pack. Unit
gray	281-512/281-417	50

❹ Electrical ratings are given by the fuse or LED nominal voltage (see page 308).

Please observe the application notes: Marking, from page 588

Approvals and corresponding ratings, visit www.wago.com

Accessories; for fuse plugs

Appropriate marking systems: 4 mm wide WSB for plug and WMB for terminal block

2-conductor carrier terminal block; 0.08 … 4 mm² / 28 … 12 AWG
Terminal block width: 6 mm / 0.236 inch

gray	281-916	50

End and intermediate plate; 2.5 mm thick

orange	281-329	100 (25)
gray	281-328	100 (25)

3-conductor carrier terminal block; 0.08 … 4 mm² / 28 … 12 AWG
Terminal block width: 6 mm / 0.236 inch

gray	281-610	50

End and intermediate plate; 2.5 mm thick

orange	281-326	100 (25)
gray	281-324	100 (25)

4-conductor carrier terminal block; 0.08 … 4 mm² / 28 … 12 AWG
Terminal block width: 6 mm / 0.236 inch

gray	281-656	50

End and intermediate plate; 2.5 mm thick

orange	281-335	100 (25)
gray	281-334	100 (25)

Wire commoning chain; insulated; 50 connections; I_N 8 A

black	210-103	5

Wire commoning chain; insulated; 50 connections; I_N 8 A

blue	210-123	5

Accessories; for fuse plugs

Appropriate marking systems: 4 mm wide WSB for plug and WMB for terminal block

Comb-style jumper bar; insulated; I_N = I_N of terminal block

2-way	281-482	100 (25)
3-way	281-483	100 (25)
5-way	281-485	100 (25)
10-way	281-490	50 (25)

Alternate comb-style jumper bar; insulated; I_N = I_N of terminal block

2-way	281-492	100 (25)

Operating tool; insulated

2-way	280-432	1
3-way	280-433	1
5-way	281-440	1

Shorting link; 5 x 20 mm; allows the fuse plug to be used as a disconnect plug

I_N 6.3 A	281-503	250 (25)

WSB marking card; white, 10 strips with 10 markers/card; 4 mm wide WSB markers

plain	209-701	5

WSB marking card; plain; 10 strips with 10 markers/card; 4 mm wide WSB markers

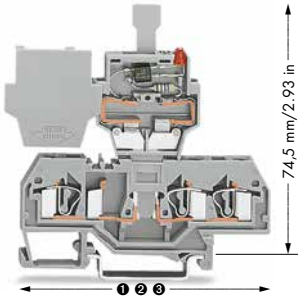
yellow	209-701/000-002	5
red	209-701/000-005	5
blue	209-701/000-006	5
gray	209-701/000-007	5
orange	209-701/000-012	5
light green	209-701/000-017	5
green	209-701/000-023	5
violet	209-701/000-024	5

WSB marking card; for fuse plugs (281-5..); white; 4 mm wide WSB markers

F1, ..., F10 (10x)	209-787	5
F11, ..., F20 (10x)	209-700/209-124	5
F21, ..., F30 (10x)	209-700/209-125	5
F31, ..., F40 (10x)	209-700/209-126	5
F41, ..., F50 (10x)	209-700/209-127	5

WMB marking card; white; 10 strips with 10 markers/card; stretchable 5 … 5.2 mm

plain	793-5501	5

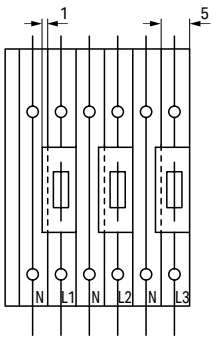


Length of carrier terminal blocks with a fuse plug:
❶ 59 mm / 2.32 inch for 281-916
❷ 73.5 mm / 2.89 inch for 281-610
❸ 86 mm / 3.39 inch for 281-656

Terminal blocks with side marking,
visit www.wago.com

Using fuse plugs with rail-mount terminal blocks for control circuit protection is highly advantageous because the function and wiring levels are separated:
- No additional cost for assembly and wiring
- No risk of accidental contact with live parts when disconnecting the fuse plug
- The fuse plug is completely separated from the carrier terminal block when replacing a fuse – away from current carrying parts
- The fuse plug can be removed by service personnel
- No unintentional reclosing of the circuit by another person
- Quickly exchange a fuse by using a prepared "stand-by plug"

Fuse plug features for quick and safe applications:
- Optional LED indicates blown fuse
- Top-of-unit marking slot provides clear carrier terminal block identification
- Two test slots with touch contacts
- Terminal blocks/plugs provide high-density wiring in a width of just 6 mm
- May be used as a disconnect plug in combination with a shorting link



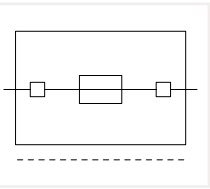
Open side of terminal block left

When a corresponding neutral circuit is adjacent to the fuse plug, a 5 mm wide space-saving terminal block may be used, as a 6 mm fuse plug may overlap the terminal block (see diagram).
For example, 5 mm (0.197 inch) wide carrier terminal blocks can be used with an end plate.

Fuse Plug on Carrier Terminal Block 2.5 mm²
280 Series

Technical Data
125 V / I_N 5 A ❹
Plug width: 5 mm / 0.197 inch

280-850

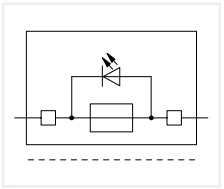


Fuse plug; with soldered miniature fuse; 5 mm wide; gray
Electrical ratings are given by the fuse.

	Item No.	Pack. Unit
○ 250 mA FF	280-850	100
○ 500 mA FF	280-852	100
○ 1 A FF	280-854	100
○ 2 A FF	280-856	100

Technical Data
125 V / I_N 5 A ❹
Plug width: 5 mm / 0.197 inch

280-850/281-413



Fuse plug; with soldered miniature fuse; with additional indicator lamp; red LED; 15 … 30 VDC; 5 mm wide; gray
Electrical ratings are given by the fuse and blown fuse indication. Leakage current in case of a blown fuse: LED 5 … 20 mA

	Item No.	Pack. Unit
○ 250 mA FF	280-850/281-413	100
○ 500 mA FF	280-852/281-413	100
○ 1 A FF	280-854/281-413	100
○ 2 A FF	280-856/281-413	100

Accessories; for fuse plugs

Appropriate marking system: WMB

2-conductor carrier terminal block;
0.08 … 2.5 mm² / 28 … 12 AWG*
Terminal block width: 5 mm / 0.197 inch

gray	280-916	100

End and intermediate plate; 2.5 mm thick

orange	280-309	100 (25)
gray	280-308	100 (25)

3-conductor carrier terminal block;
0.08 … 2.5 mm² / 28 … 12 AWG*
Terminal block width: 5 mm / 0.197 inch

gray	280-610	100

End and intermediate plate; 2.5 mm thick

orange	280-326	100 (25)
gray	280-324	100 (25)

4-conductor carrier terminal block;
0.08 … 2.5 mm² / 28 … 12 AWG*
Terminal block width: 5 mm / 0.197 inch

gray	280-816	100

End and intermediate plate; 2.5 mm thick

orange	280-315	100 (25)
gray	280-314	100 (25)

Comb-style jumper bar; insulated; I_N = I_N of terminal block

2-way	280-482	200 (25)
3-way	280-483	200 (25)

Comb-style jumper bar; insulated; I_N = I_N of terminal block

10-way	280-490	50 (25)

Alternate comb-style jumper bar; insulated; I_N = I_N of terminal block

2-way	280-492	200 (25)

Operating tool; insulated

2-way	280-432	1
3-way	280-433	1

Operating tool; insulated

10-way	280-440	1

Wire commoning chain; insulated; 50 connections; I_N 8 A

black	210-103	5

Wire commoning chain; insulated; 50 connections; I_N 8 A

blue	210-123	5

*12 AWG: THHN, THWN

❹ Electrical ratings are given by the fuse or LED nominal voltage (see page 308).

Please observe the application notes:
Marking, from page 588

Approvals and corresponding ratings,
visit www.wago.com

Accessories; for fuse plugs

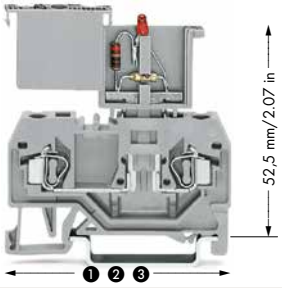
Appropriate marking system:
WMB

WMB marking card; white; 10 strips with 10 markers/card; stretchable 5 … 5.2 mm

plain	793-5501	5

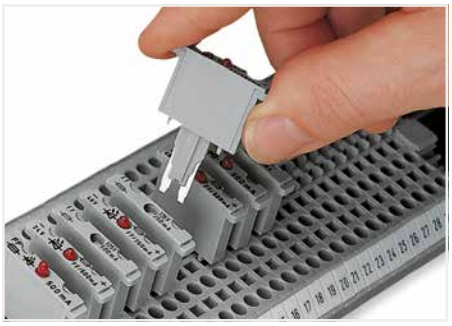
WMB marking card; plain; 10 strips with 10 markers/card; stretchable 5 … 5.2 mm

yellow	793-5501/000-002	5
red	793-5501/000-005	5
blue	793-5501/000-006	5
gray	793-5501/000-007	5
orange	793-5501/000-012	5
light green	793-5501/000-017	5
green	793-5501/000-023	5
violet	793-5501/000-024	5



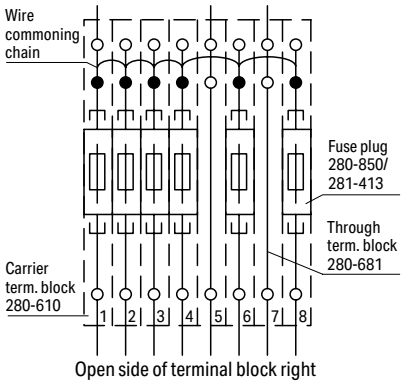
Length of carrier terminal blocks with a fuse plug:
❶ 53 mm / 2.09 inch for 280-916
❷ 64 mm / 2.52 inch for 280-610
❸ 75 mm / 2.95 inch for 280-816

Terminal blocks with side marking, visit www.wago.com



Using fuse plugs with rail-mount terminal blocks (280/281 and 769 Series) for control circuit protection is highly advantageous because the function and wiring levels are separated:

- No additional cost for assembly and wiring
- No risk of accidental contact with live parts when disconnecting the fuse plug
- Quick plug replacement in case of a blown fuse
- The fuse plug can be removed by service personnel
- No unintentional reclosing of the circuit by another person
- Terminal blocks/plugs provide ultra high-density wiring in a width of just 5 mm
- Optional LED indicates blown fuse



Fuse protection of individual outputs – supply via wire commoning chain

5

Fuse Terminal Block for 10 x 38 mm (1 3⁄32" x 1½") Cylindrical Fuses and Class CC Fuses
16 mm²; 811 Series

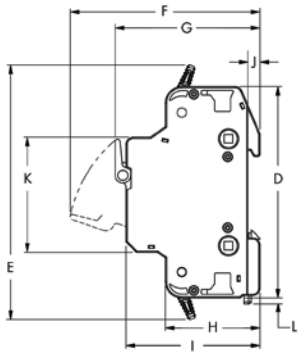
Technical Data	
2.5 … 16 mm²	14 … 6 AWG
1000 VDC, 32 A	1000 VDC, 30 A
Terminal block width: 17.5 mm / 0.689 inch	
12 … 13 mm / 0.47 … 0.51 inch	

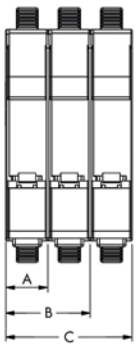
Technical Data	
2.5 … 16 mm²	14 … 6 AWG
690 VAC, 32 A	600 VAC, 30 A
1000 VDC, 32 A	750 VAC, 30 A
	1000 VDC, 30 A
Terminal block width: 17.5 mm / 0.689 inch	
12 … 13 mm / 0.47 … 0.51 inch	

Technical Data	
2.5 … 16 mm²	14 … 6 AWG
	600 V, 30 A
	600 V, 30 A
Terminal block width: 17.5 mm / 0.689 inch	
12 … 13 mm / 0.47 … 0.51 inch	

5

Dimensions (in mm):





Dimension	mm (inch)
A	17.3 (0.68)
B	34.6 (1.36)
C	51.9 (2.04)
D	87 (3.43)
E	104.9 (4.13)
F	78.3 (3.08)
G	59.7 (2.35)
H	39 (1.54)
I	55.2 (2.17)
J	5 (0.2)
K	47.4 (1.87)
L	2.5 (0.1)

Fuse terminal block for 10 x 38 mm (1 3⁄32" x 1½") cylindrical fuses; for photovoltaic applications; without blown fuse indication; for DIN-35 rail per EN 60715; light gray

Pole No.	Item No.	Pack. Unit
1-pole	811-316	12

Fuse terminal block for 10 x 38 mm (1 3⁄32" x 1½") cylindrical fuses; without blown fuse indication; for DIN-35 rail per EN 60715; light gray

Pole No.	Item No.	Pack. Unit
1-pole	811-310	12
2-pole	811-320	6
3-pole	811-330	4

Fuse terminal block for class CC fuses; without blown fuse indication; for DIN-35 rail per EN 60715; light gray

Pole No.	Item No.	Pack. Unit
1-pole	811-410	12
2-pole	811-420	6
3-pole	811-430	4

Fuse terminal block for 10 x 38 mm (1 3⁄32" x 1½") cylindrical fuses; for photovoltaic applications; with blown fuse indication; 230 … 1000 VDC; for DIN-35 rail; light gray

Pole No.	Item No.	Pack. Unit
1-pole	811-317	12

Fuse terminal block for 10 x 38 mm (1 3⁄32" x 1½") cylindrical fuses; with blown fuse indication; 90 … 600 VAC; 115 … 600 VDC; for DIN-35 rail; light gray

Pole No.	Item No.	Pack. Unit
1-pole	811-311	12
2-pole	811-321	6
3-pole	811-331	4

Fuse terminal block for class CC fuses; with blown fuse indication; 90 … 600 VAC; 115 … 600 VDC; for DIN-35 rail; light gray

Pole No.	Item No.	Pack. Unit
1-pole	811-411	12
2-pole	811-421	6
3-pole	811-431	4

Fuse terminal block for 10 x 38 mm (1 3⁄32" x 1½") cylindrical fuses; with blown fuse indication; 24 VDC; for DIN-35 rail; light gray

Pole No.	Item No.	Pack. Unit
1-pole	811-314	12

Fuse terminal block for class CC fuses; with blown fuse indication; 24 VDC; for DIN-35 rail; light gray

Pole No.	Item No.	Pack. Unit
1-pole	811-414	12

Accessories; 811 Series

Appropriate marking systems: WMB/Marking strips

Supply module; 35 mm²; 600 VAC; 1000 VDC

811-471 16 (4

Coupling kit; for 12 poles

811-612 1

Marker carrier; for POWER CAGE CLAMP 35/50/95 mm²; 10.4 mm wide

gray 285-442 25

Test plug; with 500 mm cable; 2 mm Ø; max. 42 V

red 210-136 50

Screwless end stop; for DIN-35 rail; 6 mm wide

gray 249-116 100 (25)

WMB Inline, plain; 1,500 WMB markers (5 mm)/reel; 5 … 5.2 mm stretchable

white 2009-115 1

Cylindrical fuses are not offered by WAGO. Temperature range: -35 … +85 °C
Electrical ratings are given by the fuse and blown fuse indication.

Please observe the application notes:
Marking, from page 588

Approvals and corresponding ratings, visit www.wago.com

Accessories; 811 Series

Appropriate marking systems:
WMB/Marking strips

Push-in type jumper bar; insulated; I_N 63 A

2-way	811-472	50 (10)
3-way	811-473	40 (10)
4-way	811-474	40 (10)
5-way	811-475	40 (10)
6-way	811-476	30 (10)
7-way	811-477	20 (10)
8-way	811-478	20 (10)
9-way	811-479	20 (10)
10-way	811-480	20 (10)
11-way	811-481	20 (10)
12-way	811-482	20 (10)

WMB marking card; white; 10 strips with 10 markers/card; stretchable 5 … 5.2 mm

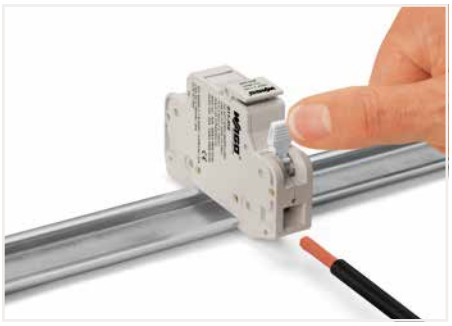
plain	793-5501	5

WMB marking card; plain; 10 strips with 10 markers/card; stretchable 5 … 5.2 mm

yellow	793-5501/000-002	5
red	793-5501/000-005	5
blue	793-5501/000-006	5
gray	793-5501/000-007	5
orange	793-5501/000-012	5
light green	793-5501/000-017	5
green	793-5501/000-023	5
violet	793-5501/000-024	5

Twin ferrule only for 811 Series; insulated; 12 mm long

Sleeve for 2 x 2.5 mm² / 14 AWG	216-545	100
Sleeve for 2 x 4 mm² / 12 AWG	216-546	100
Sleeve for 2 x 6 mm² / 10 AWG	216-547	100



CAGE CLAMP® connection
Inserting a conductor.
Opening the clamping unit via integrated lever.

Terminating ferruled conductors up to 10 mm² (8 AWG).

Inserting a fuse.

Removing a terminal block from the DIN-rail.

Open and close lever via operating tool.

Marker carriers (285-442) for continuous marking strips

WMB marking location for convenient identification

Jumper bar for quick and convenient commoning

Creating a 2- or 3-pole fuse terminal block via coupling kit.

Application Notes on Terminal Blocks for Glass Cartridge Fuses

Terminal Blocks for Glass Cartridge Fuses Tested per IEC or EN 60947-7-3/VDE 0611-6

When selecting glass cartridge fuses, make sure that the maximum power loss listed below is not exceeded.
The power loss is determined according to IEC or EN 60947-7-3/VDE 0611-6 at 23°C.
The temperature rise of the terminal blocks must be checked according to their application and mounting.
Higher ambient temperatures represent an additional impact on fuse cartridges. Therefore, in such applications, the rated current must be reduced if necessary.
More details are available from the manufacturers.

Glass Cartridge Fuses (5 x 20 mm)

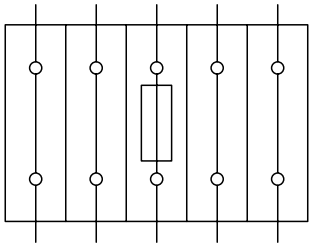
Series Item No.	Overload and Short-Circuit Protection		Short-Circuit Protection Only	
	Individual Arrangement	Block Arrangement	Individual Arrangement	Block Arrangement
Fuse terminal blocks (with screw cap), front-entry (5 x 20 mm)				
282-122 282-124	2.5 W	2.5 W	4 W	4 W
Fused disconnect terminal block with a pivoting fuse holder for glass cartridge fuses (5 x 20 mm)				
281-611 281-616 281-611/281-541 281-611/281-542 281-611/281-417 281-611/281-418	2.5 W	1.6 W	4 W	4 W
Fuse plugs for glass cartridge fuses (5 x 20 mm)				
281-511 281-512 281-512/281-501 281-512/281-418 281-512/281-417	2.5 W	1.6 W	4 W	4 W

5

Glass Cartridge Fuses (6.3 x 32 mm)

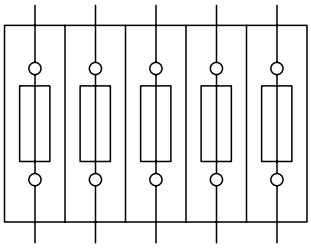
Series Item No.	Overload and Short-Circuit Protection		Short-Circuit Protection Only	
	Individual Arrangement	Block Arrangement	Individual Arrangement	Block Arrangement
Fuse terminal blocks (with screw cap), front-entry (1/4" x 11/4" ≈ 6.3 x 32 mm)				
282-128 282-128/281-418 282-128/281-413 282-128/281-417	2.5 W	2.5 W	4 W	4 W
Fused disconnect terminal block with a pivoting fuse holder for glass cartridge fuses (1/4" x 11/4" ≈ 6.3 x 32 mm)				
281-623 281-623/281-541 281-623/281-542 281-623/281-417 281-623/281-418	2.5 W	1.6 W	4 W	2.5 W

Individually arranged fuse terminal blocks



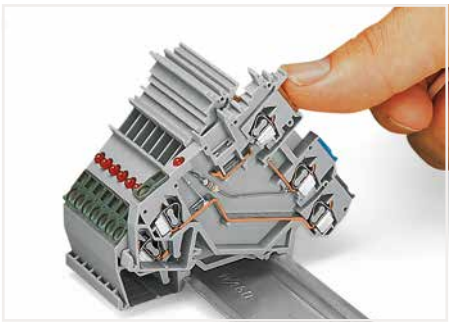
Terminal block assembly including
one fuse terminal block and through terminal blocks

Fuse terminal block in a group

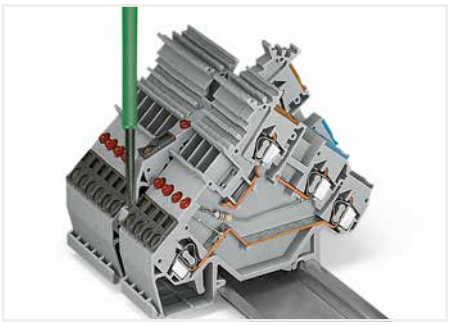


Terminal block assembly including
five fuse terminal blocks

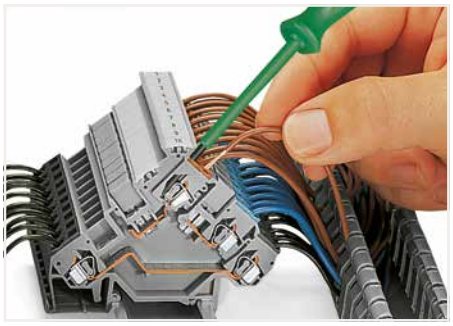
Sensor Terminal Blocks and Actuator Terminal Blocks
280 Series
Description and Installation



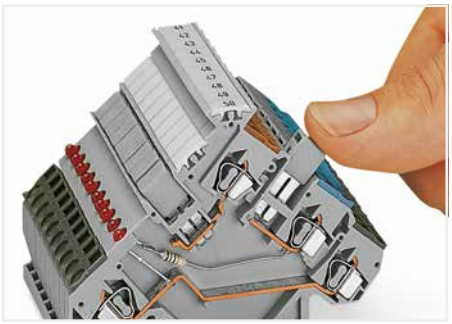
Snapping a terminal block onto the DIN-rail.
Terminal blocks with a grounding foot automatically establish a direct contact to the rail.



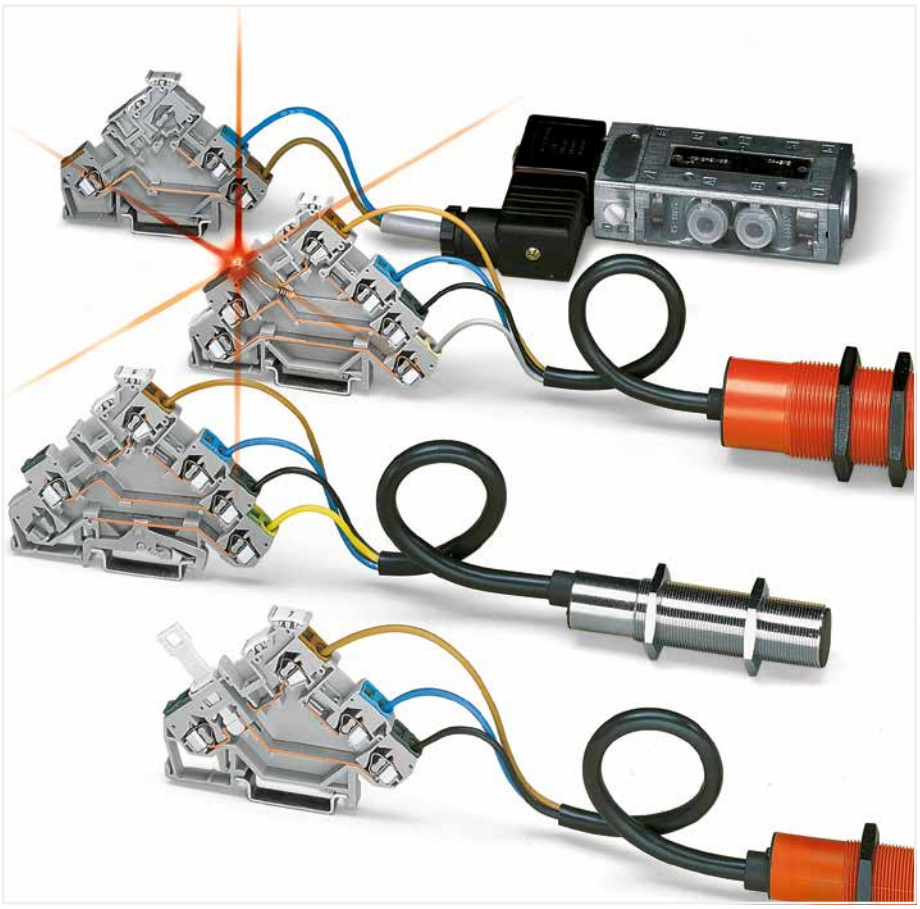
Removing a terminal block from the DIN-rail.
Notice: Remove jumper contacts first.

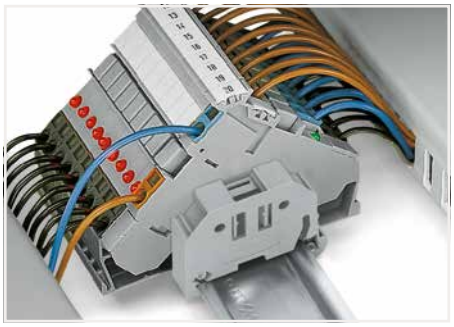


CAGE CLAMP® connection
Inserting a conductor via straight operating tool (210-720).



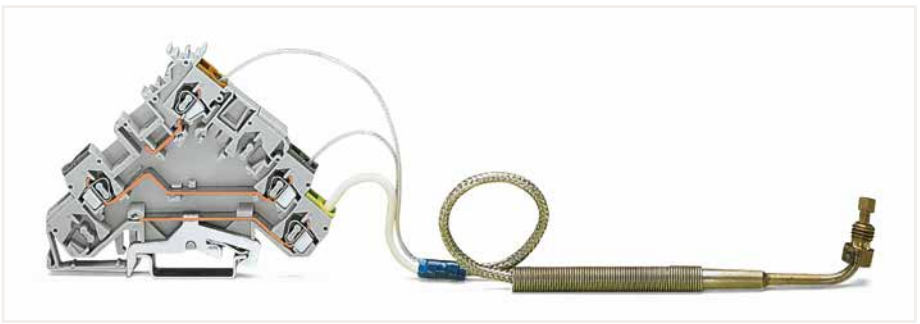
Commoning using an adjacent jumper (280-402).
Push jumper down until fully inserted.





Sensor terminal blocks
Power supply from control panel side

Sensor terminal blocks
Power supply from sensor side



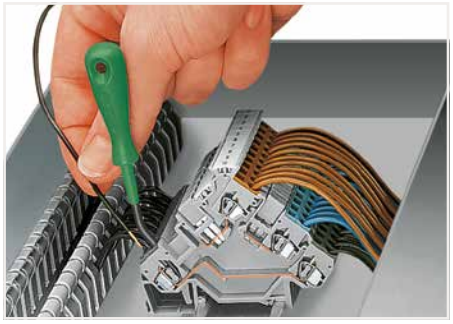
Actuator terminal block; with shield connection; with a thermocouple

CAGE CLAMP® terminates the following copper conductors:
solid

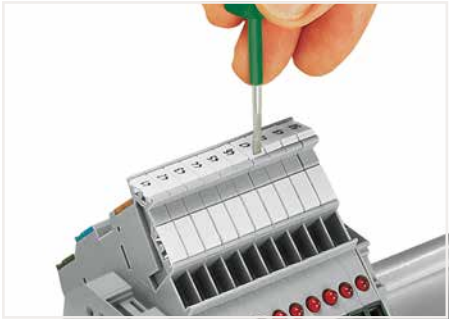
stranded

fine-stranded, also with tinned single strands

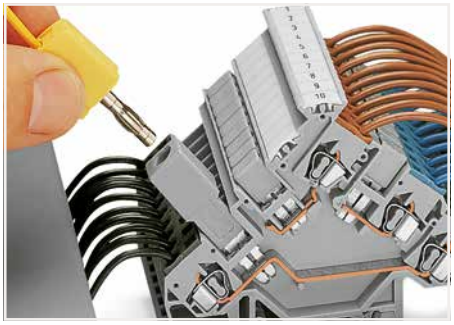
For aluminum conductors, see notes in Section 14. With ferruled conductors, it is necessary to use a terminal block one size smaller than the conductor's nominal cross section.



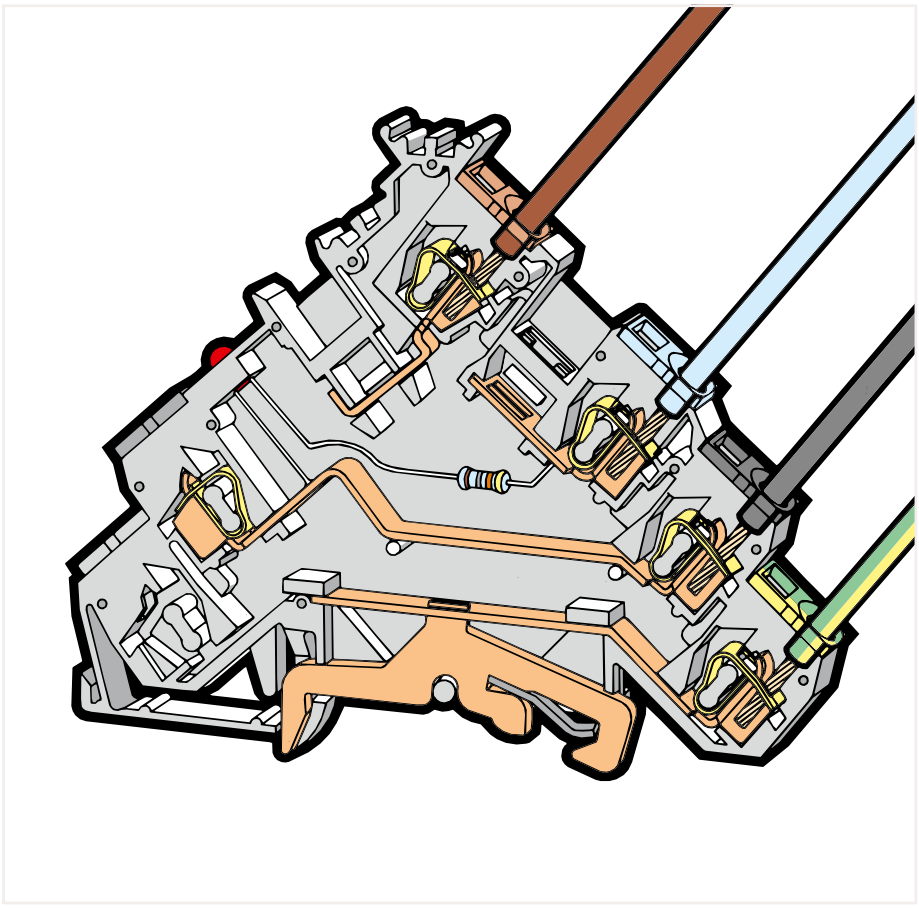
CAGE CLAMP® connection
Inserting a conductor via angled operating tool (210-658).



Labeling via WMB Multi Marking System.



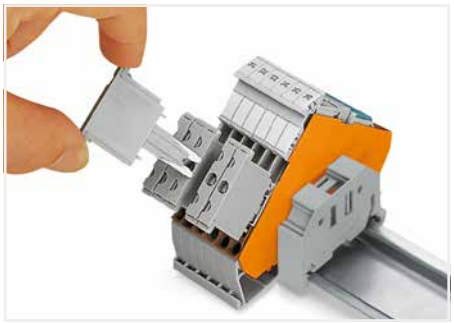
Testing via banana plug and test plug adapter (209-170).



Testing via voltage tester directly on the current bar.

Actuator terminal blocks with fuse holders (281-511) – intermediate plates are required!

Actuator terminal block with thermocouple



Actuator terminal blocks with component plugs (280 801)

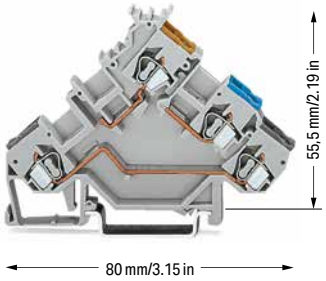
fine-stranded,
tip-bonded

fine-stranded,
with ferrule
(gastight crimped)

fine-stranded,
with pin terminal
(gastight crimped)

Sensor terminal block; for 3-conductor sensors
2.5 mm²; 280 Series

Technical Data	
0.08 … 2.5 mm²	28 … 12 AWG*
400 V/6 kV/3 ❶	300 V, 15 A
I_N 20 A	300 V, 15 A
Terminal block width: 5 mm / 0.197 inch	
8 … 9 mm / 0.31 … 0.35 inch	

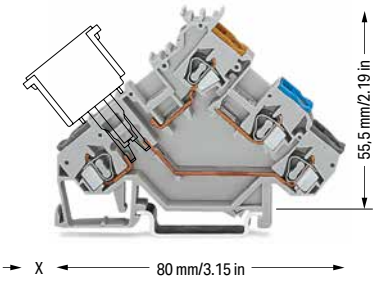


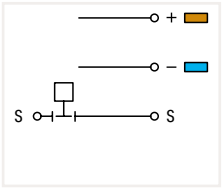
280-560

280-553

Sensor terminal block		
Color	Item No.	Pack. Unit
gray	280-560	50
gray	280-553	50

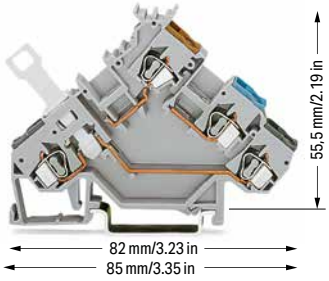
Technical Data	
0.08 … 2.5 mm²	28 … 12 AWG*
250 V/4 kV/3 ❶	300 V, 6 A
I_N 6 A	300 V, 15 A
Terminal block width: 5 mm / 0.197 inch	
8 … 9 mm / 0.31 … 0.35 inch	



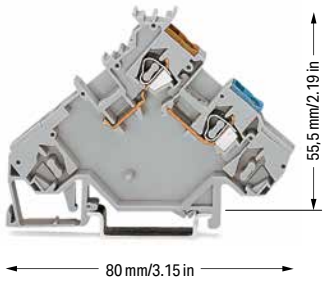


Sensor terminal block; for component plugs		
Color	Item No.	Pack. Unit
gray	280-561 ❸	50

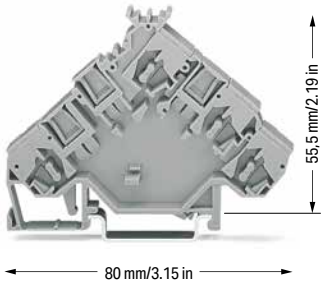
Technical Data	
0.08 … 2.5 mm²	28 … 12 AWG*
400 V/6 kV/3 ❶	300 V, 10 A
I_N 10 A	300 V, 15 A
Terminal block width: 5 mm / 0.197 inch	
8 … 9 mm / 0.31 … 0.35 inch	



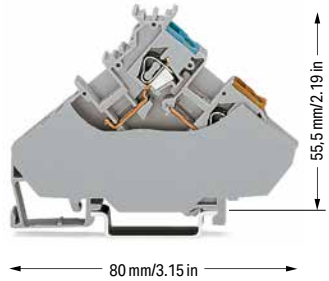
Sensor disconnect terminal block; for signal interruption		
Color	Item No.	Pack. Unit
gray	280-563	50



Sensor supply terminal block; power supply from sensor side		
Color	Item No.	Pack. Unit
gray	280-564	10



Spacer; same profile as 3-conductor sensor terminal blocks or corresponding actuator terminal blocks Spacers with the same profile clearly differentiate between sensor or actuator terminal groups, e.g., of different power supply.		
Color	Item No.	Pack. Unit
gray	280-559	50



Sensor supply terminal block; power supply from control panel side; with end plate Terminal block width: 6 mm / 0.236 inch		
Color	Item No.	Pack. Unit
gray	280-567	20

Technical Data	
400 V/6 kV/3	I_N 20 A

*12 AWG: THHN, THWN

❶ 400 V / 250 V = rated voltage
6 kV / 4 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

❷ Electrical ratings are given by the fuse plug or empty component plug housing.

❸ Empty component plug housings, see Full Line Catalog, Interface Modules, Volume 4
x = 12 mm/0.472 inch
Fuse plug (280-850), see page 304
x = 20 mm/0.787 inch

Please observe the application notes:
Insulation stop, see page 346
Marking, from page 588

Approvals and corresponding ratings, visit www.wago.com

Sensor terminal block paired with a 3-conductor sensor

Accessories; 280 Series

Appropriate marking system: WMB

End and intermediate plate; 1 mm thick; for triple-deck terminal blocks

orange	**280-321**	100 (25)
gray	**280-319**	100 (25)

Insulation stop; 0.08 … 0.2 mm² "s" (0.14 mm² "f-st"); 5 pcs/strip

white	**280-470**	200 (25)

Insulation stop; 0.25 … 0.5 mm²; 5 pcs/strip

light gray	**280-471**	200 (25)

Insulation stop; 0.75 … 1 mm²; 5 pcs/strip

dark gray	**280-472**	200 (25)

Adjacent jumper; insulated; I_N = I_N terminal block

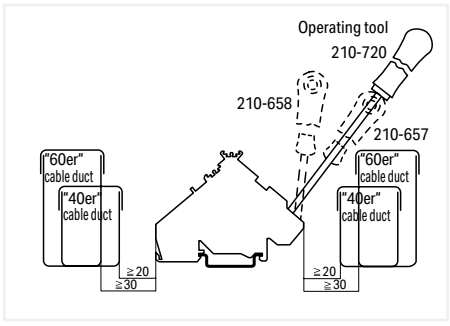
gray	**280-402**	200 (25)

Screwless end stop; for DIN-35 rail; 6 mm wide

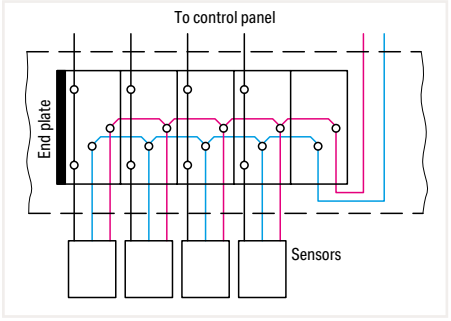
gray	**249-116**	100 (25)

Screwless end stop; for DIN-35 rail; 10 mm wide

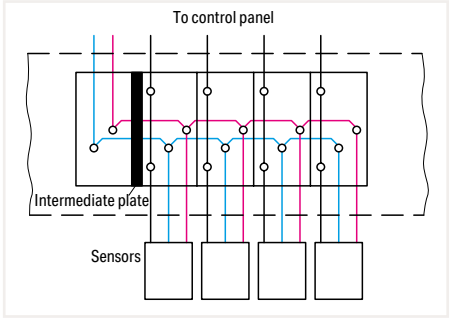
gray	**249-116**	50 (25)



Min. mounting distance – terminal blocks to cable duct



Power supply from sensor side



Power supply from control panel side

CAGE CLAMP®

Sensor LED Terminal Block; for 3-Conductor Sensors
2.5 mm²; 280 Series

Technical Data	
0.08 … 2.5 mm²	28 … 12 AWG*
24 VDC ❶	24 V, 15 A
20 A	300 V, 15 A
Terminal block width: 5 mm / 0.197 inch	
8 … 9 mm / 0.31 … 0.35 inch	

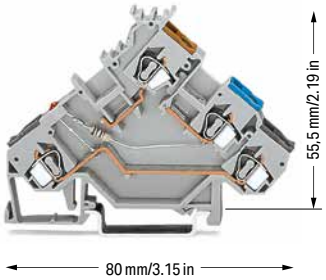
Technical Data	
0.08 … 2.5 mm²	28 … 12 AWG*
24 VDC ❶	24 V, 15 A
20 A	300 V, 15 A
Terminal block width: 5 mm / 0.197 inch	
8 … 9 mm / 0.31 … 0.35 inch	

*12 AWG: THHN, THWN

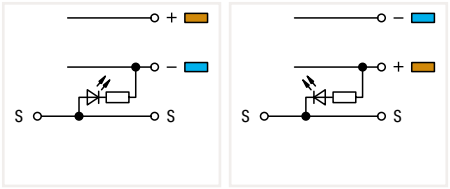
❶ Other voltages are available upon request.

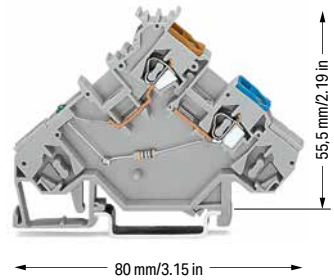
Please observe the application notes:
Insulation stop, see page 346
Marking, from page 588

Approvals and corresponding ratings, visit www.wago.com

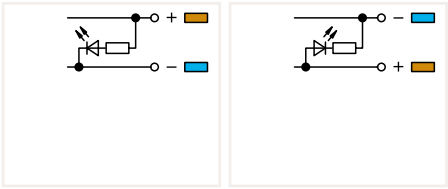


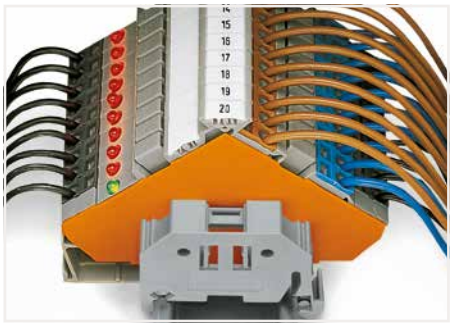
280-560/281-434 280-561/281-413





280-564/281-483 280-566/281-496





Sensor LED terminal block; for PNP (high-side) switching sensors; red LED; LED power consumption: 4.8 mA		
Color	Item No.	Pack. Unit
gray	280-560/281-434	50

Sensor LED supply terminal block; power supply from sensor side; for PNP (high-side) switching sensors; green LED; LED power consumption: 4.8 mA		
Color	Item No.	Pack. Unit
gray	280-564/281-483	10

Sensor LED terminal block; for NPN (low-side) switching sensors; red LED; LED power consumption: 4.8 mA		
gray	280-561/281-413	50

Sensor LED supply terminal block; power supply from sensor side; for NPN (low-side) switching sensors; green LED; LED power consumption: 4.8 mA		
gray	280-566/281-496	10

Accessories; 280 Series

Appropriate marking system: WMB

End and intermediate plate; 1 mm thick; for triple-deck terminal blocks			
	orange	280-321	100 (25)
	gray	280-319	100 (25)

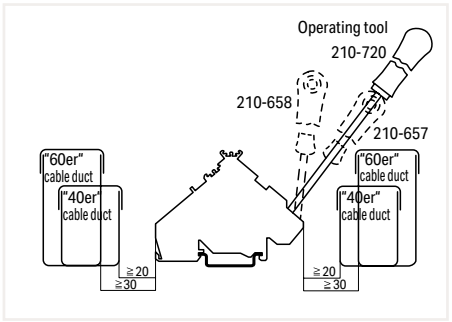
Insulation stop; 0.08 … 0.2 mm² "s" (0.14 mm² "f-st"); 5 pcs/strip			
	white	280-470	200 (25)

Insulation stop; 0.25 … 0.5 mm²; 5 pcs/strip			
	light gray	280-471	200 (25)

Insulation stop; 0.75 … 1 mm²; 5 pcs/strip			
	dark gray	280-472	200 (25)

Adjacent jumper; insulated; $I_N = I_N$ terminal block			
	gray	280-402	200 (25)

Screwless end stop; for DIN-35 rail; 6 mm wide			
	gray	249-116	100 (25)



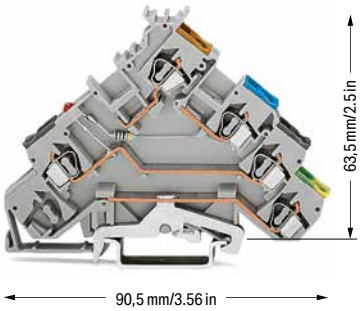
Min. mounting distance – terminal blocks to cable duct

Sensor LED terminal block with a 3-conductor sensor

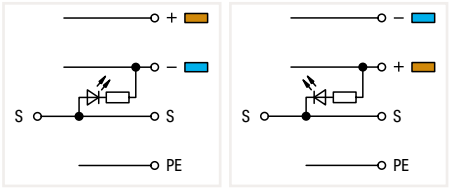
CAGE CLAMP®

Sensor LED Terminal Block; for 4-Conductor Sensors
2.5 mm²; 280 Series

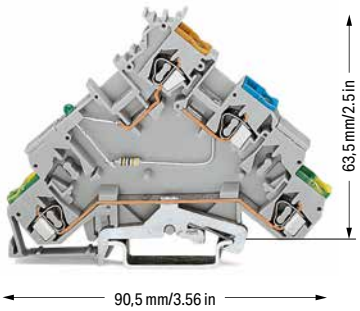
Technical Data	
0.08 … 2.5 mm²	28 … 12 AWG*
24 VDC ❶	24 V, 15 A
20 A	300 V, 15 A
Terminal block width: 5 mm / 0.197 inch	
8 … 9 mm / 0.31 … 0.35 inch	



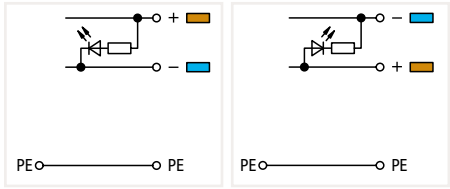
280-570/281-434 280-571/281-413



Technical Data	
0.08 … 2.5 mm²	28 … 12 AWG*
24 VDC ❶	24 V, 15 A
20 A	300 V, 15 A
Terminal block width: 5 mm / 0.197 inch	
8 … 9 mm / 0.31 … 0.35 inch	



280-574/281-483 280-576/281-496



*12 AWG: THHN, THWN

❶ Other voltages are available upon request.

Please observe the application notes:
Insulation stop, see page 346
Marking, from page 588

Approvals and corresponding ratings, visit www.wago.com

Sensor LED terminal block; for PNP (high-side) switching sensors; red LED; LED power consumption: 4.8 mA

Color	Item No.	Pack. Unit
gray	280-570/281-434	50

Sensor LED terminal block; for NPN (low-side) switching sensors; red LED; LED power consumption: 4.8 mA

gray	280-571/281-413	50

Sensor LED supply terminal block; power supply from sensor side; for PNP (high-side) switching sensors; green LED; LED power consumption: 4.8 mA

Color	Item No.	Pack. Unit
gray	280-574/281-483	10

Sensor LED supply terminal block; power supply from sensor side; for NPN (low-side) switching sensors; green LED; LED power consumption: 4.8 mA

gray	280-576/281-496	10

Sensor LED supply terminal block; power supply from control panel side; for PNP (high-side) switching sensors; green LED; LED power consumption: 4.8 mA Terminal block width: 6 mm / 0.236 inch

gray	280-577/281-496	20

Accessories; 280 Series

Appropriate marking system: WMB

End and intermediate plate; 1 mm thick; for quadruple-deck terminal blocks

orange	280-323	100 (25)
gray	280-320	100 (25)

Insulation stop; 0.08 … 0.2 mm² "s" (0.14 mm² "f-st"); 5 pcs/strip

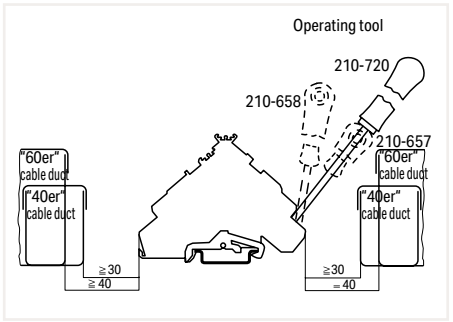
white	280-470	200 (25)

Insulation stop; 0.25 … 0.5 mm²; 5 pcs/strip

light gray	280-471	200 (25)

Insulation stop; 0.75 … 1 mm²; 5 pcs/strip

dark gray	280-472	200 (25)

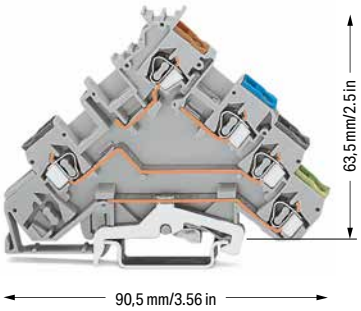


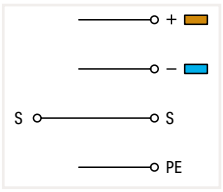
Min. mounting distance – terminal blocks to cable duct

Sensor LED terminal block paired with a 3-conductor sensor (ground connection)

Sensor terminal block; with ground connection; for 3-conductor sensors
2.5 mm²; 280 Series

Technical Data	
0.08 … 2.5 mm²	28 … 12 AWG*
400 V/6 kV/3 ❶	300 V, 15 A
I_N 20 A	300 V, 15 A
Terminal block width: 5 mm / 0.197 inch	
8 … 9 mm / 0.31 … 0.35 inch	

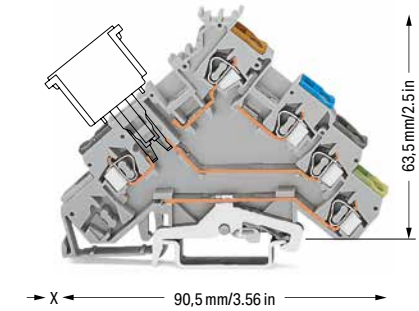


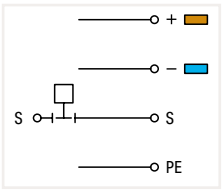


Sensor terminal block; with ground connection

Color	Item No.	Pack. Unit
gray	280-570	50

Technical Data	
0.08 … 2.5 mm²	28 … 12 AWG*
250 V/4 kV/3 ❶	300 V, 6 A
I_N 6 A	300 V, 15 A
Terminal block width: 5 mm / 0.197 inch	
8 … 9 mm / 0.31 … 0.35 inch	

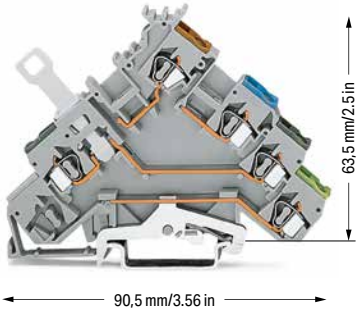


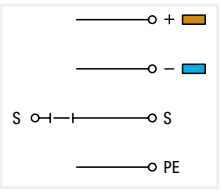


Sensor terminal block; with ground connection; for component plugs

Color	Item No.	Pack. Unit
gray	280-571 ❸	50

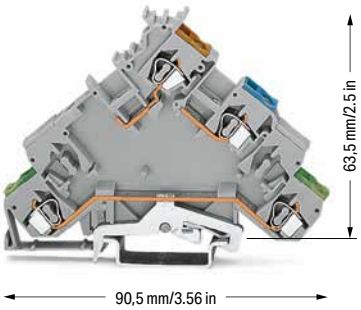
Technical Data	
0.08 … 2.5 mm²	28 … 12 AWG*
400 V/6 kV/3 ❶	300 V, 10 A
I_N 10 A	300 V, 15 A
Terminal block width: 5 mm / 0.197 inch	
8 … 9 mm / 0.31 … 0.35 inch	

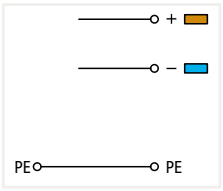




Sensor disconnect terminal block; with ground connection; for signal interruption

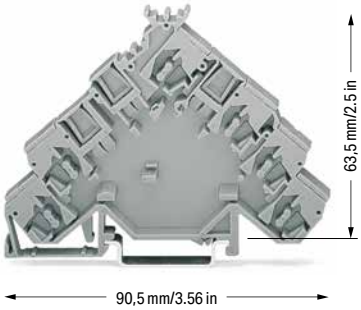
Color	Item No.	Pack. Unit
gray	280-573	50





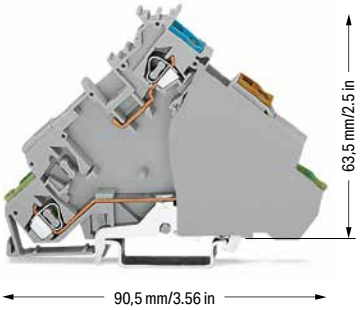
Sensor supply terminal block; with ground connection; power supply from sensor side

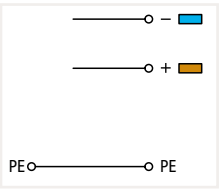
Color	Item No.	Pack. Unit
gray	280-574	10



Spacer; same profile as 4-conductor sensor terminal blocks; 3-conductor sensor terminal blocks with ground connection or corresponding actuator terminal blocks
Spacers with the same profile clearly differentiate between sensor or actuator terminal groups, e.g., of different power supply.

Color	Item No.	Pack. Unit
gray	280-582	50





Sensor supply terminal block; with ground connection; power supply from control panel side; with end plate
Terminal block width: 6 mm / 0.236 inch

Color	Item No.	Pack. Unit
gray	280-577	20

Technical Data	
400 V/6 kV/3	I_N 20 A

*12 AWG: THHN, THWN

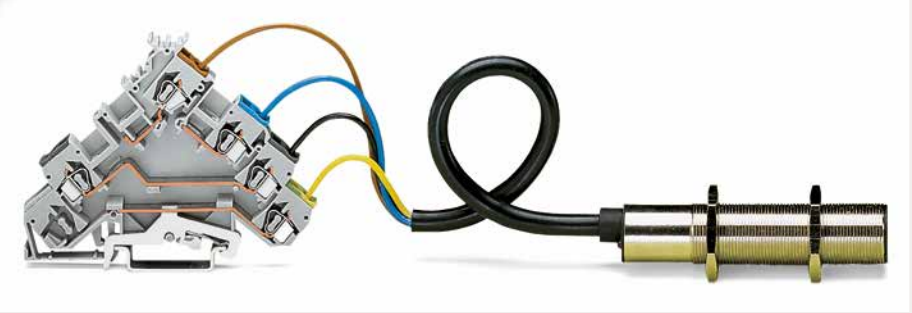
❶ 400 V / 250 V = rated voltage
6 kV / 4 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

❷ Electrical ratings are given by the fuse plug or empty component plug housing.

❸ Empty component plug housings, see Full Line Catalog, Interface Modules, Volume 4
x = 12 mm/0.472 inch
Fuse plug (280-850), see page 304
x = 20 mm/0.787 inch

Please observe the application notes:
Insulation stop, see page 346
Marking, from page 588

Approvals and corresponding ratings, visit www.wago.com



Sensor terminal block paired with a 3-conductor sensor

Accessories; 280 Series

Appropriate marking system: WMB

End and intermediate plate; 1 mm thick; for quadruple-deck terminal blocks

orange	**280-323**	100 (25)
gray	**280-320**	100 (25)

Insulation stop; 0.08 … 0.2 mm² "s" (0.14 mm² "f-st"); 5 pcs/strip

white	**280-470**	200 (25)

Insulation stop; 0.25 … 0.5 mm²; 5 pcs/strip

light gray	**280-471**	200 (25)

Insulation stop; 0.75 … 1 mm²; 5 pcs/strip

dark gray	**280-472**	200 (25)

Adjacent jumper; insulated; I_N = I_N terminal block

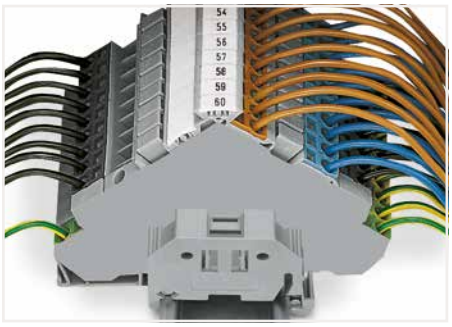
gray	**280-402**	200 (25)

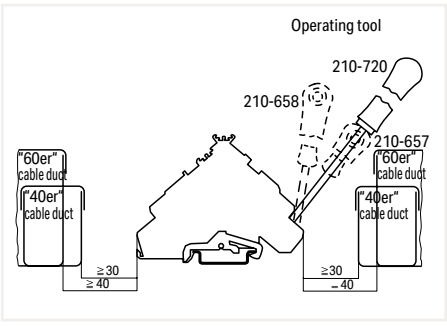
Screwless end stop; for DIN-35 rail; 6 mm wide

gray	**249-116**	100 (25)

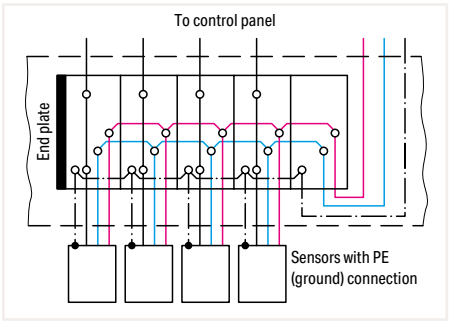
Screwless end stop; for DIN-35 rail; 10 mm wide

gray	**249-116**	50 (25)

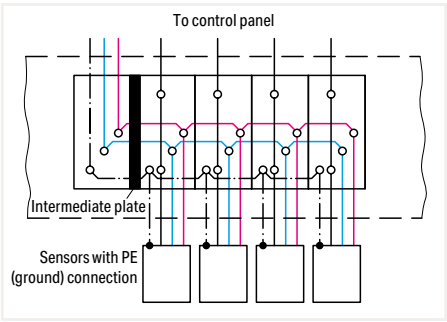




Min. mounting distance – terminal blocks to cable duct



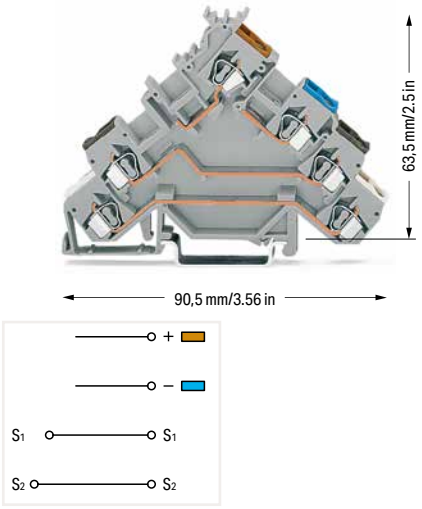
Power supply from sensor side



Power supply from control panel side

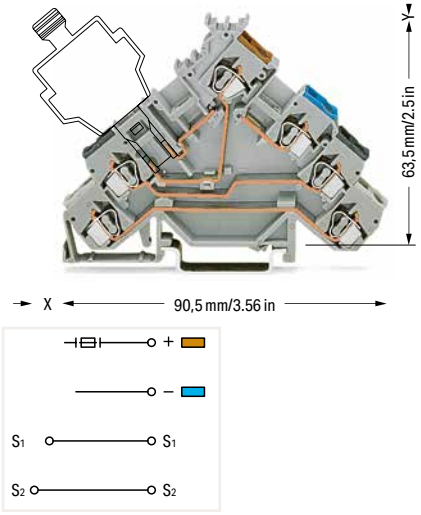
Sensor terminal block; for 4-conductor sensors
2.5 mm²; 280 Series

Technical Data	
0.08 … 2.5 mm²	28 … 12 AWG*
400 V/6 kV/3 ❶	300 V, 15 A
I_N 20 A	300 V, 15 A
Terminal block width: 5 mm / 0.197 inch	
8 … 9 mm / 0.31 … 0.35 inch	



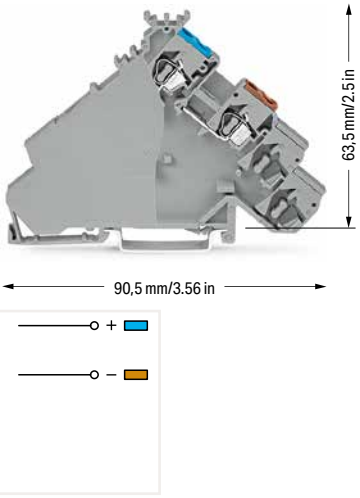
Sensor terminal block		
Color	Item No.	Pack. Unit
gray	280-580	50

Technical Data	
0.08 … 2.5 mm²	28 … 12 AWG*
125 V / 5 A ❷	300 V, 6 A
250 V / 6.3 A ❷	300 V, 15 A
Terminal block width: 5 mm / 0.197 inch	
8 … 9 mm / 0.31 … 0.35 inch	

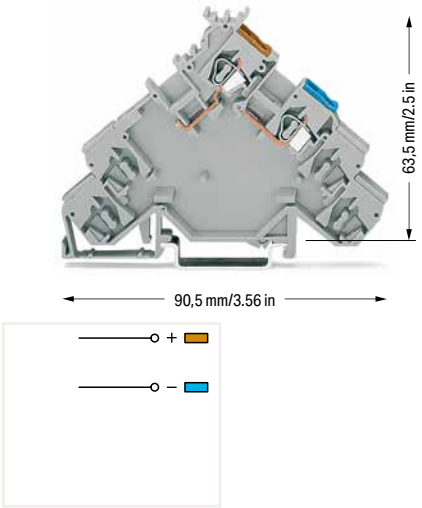


Sensor LED terminal block; for fuse plugs; for PNP (high-side) switching sensors; without end plate		
Color	Item No.	Pack. Unit
gray	280-588 ❸	50

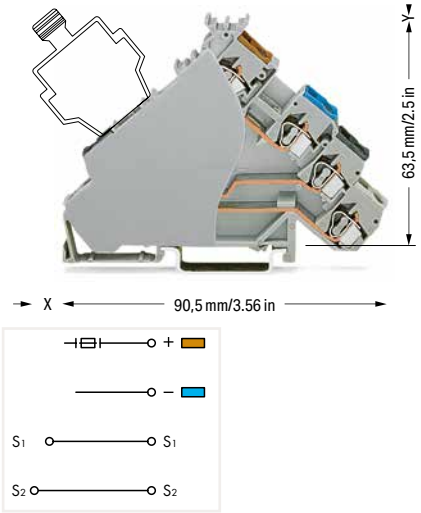
Technical Data	
0.08 … 2.5 mm²	28 … 12 AWG*
400 V/6 kV/3 ❶	24 V, 15 A
I_N 10 A	300 V, 15 A
Terminal block width: 6 mm / 0.236 inch	
8 … 9 mm / 0.31 … 0.35 inch	



Sensor supply terminal block; power supply from control panel side; with end plate		
Color	Item No.	Pack. Unit
gray	280-587	50



Sensor supply terminal block; power supply from sensor side; without end plate		
Color	Item No.	Pack. Unit
gray	280-584	10



Sensor LED terminal block; for fuse plugs; for PNP (high-side) switching sensors; with gray end plate Terminal block width: 6 mm / 0.236 inch		
Color	Item No.	Pack. Unit
gray	280-588/280-320	50

Sensor LED terminal block; for fuse plugs; for PNP (high-side) switching sensors; with orange end plate Terminal block width: 6 mm / 0.236 inch		
gray	280-588/280-323	50

*12 AWG: THHN, THWN

❶ 400 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

❷ Electrical ratings are given by the fuse plug or empty component plug housing.

❸ Empty component plug housings, see Full Line Catalog, Interface Modules, Volume 4
x = 12 mm/0.472 inch
Fuse plug (281-511), see page 302
y = 15.5 mm/0.61 inch
x = 10 mm/0.394 inch

Please observe the application notes:
Insulation stop, see page 346
Marking, from page 588

Approvals and corresponding ratings, visit www.wago.com

Sensor terminal block paired with a 4-conductor sensor

Accessories; 280 Series

Appropriate marking system: WMB

End and intermediate plate; 1 mm thick; for quadruple-deck terminal blocks

orange	**280-323**	100 (25)
gray	**280-320**	100 (25)

Insulation stop; 0.08 … 0.2 mm² "s" (0.14 mm² "f-st"); 5 pcs/strip

white	**280-470**	200 (25)

Insulation stop; 0.25 … 0.5 mm²; 5 pcs/strip

light gray	**280-471**	200 (25)

Insulation stop; 0.75 … 1 mm²; 5 pcs/strip

dark gray	**280-472**	200 (25)

Adjacent jumper; insulated; I_N = I_N terminal block

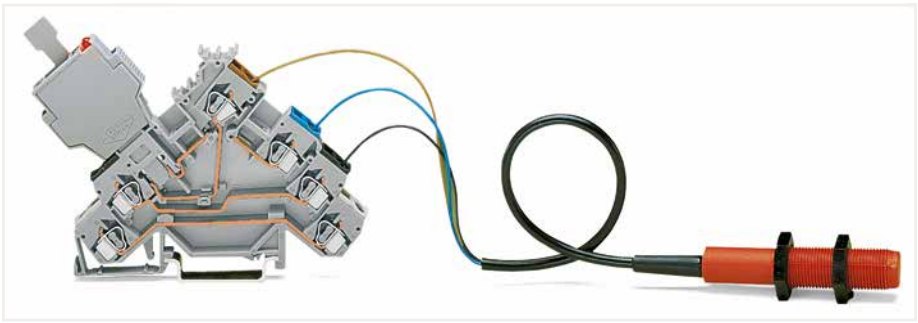
gray	**280-402**	200 (25)

Screwless end stop; for DIN-35 rail; 6 mm wide

gray	**249-116**	100 (25)

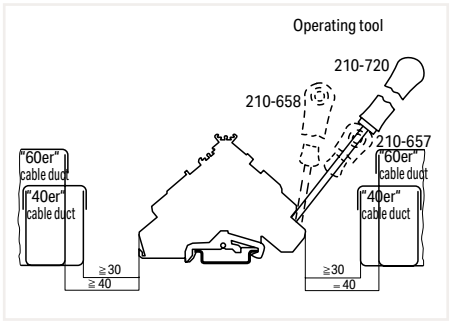
Screwless end stop; for DIN-35 rail; 10 mm wide

gray	**249-116**	50 (25)



Sensor terminal block (with a fuse plug) paired with a 3-conductor sensor

The fuse plug is 1 mm wider than the terminal block, so an intermediate plate must be installed.

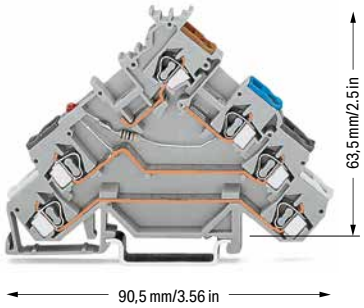


Min. mounting distance – terminal blocks to cable duct

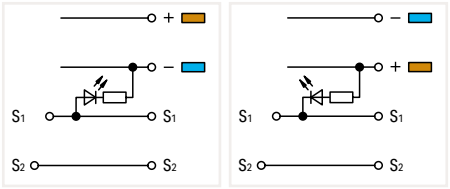
CAGE CLAMP®

Sensor LED Terminal Block; for 4-Conductor Sensors
2.5 mm²; 280 Series

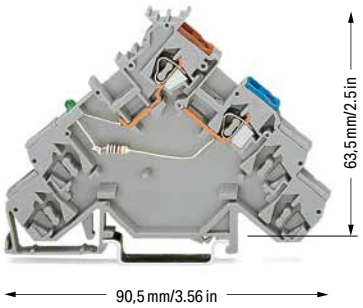
Technical Data	
0.08 … 2.5 mm²	28 … 12 AWG*
24 VDC ❶	24 V, 15 A
20 A	
Terminal block width: 5 mm / 0.197 inch	
8 … 9 mm / 0.31 … 0.35 inch	



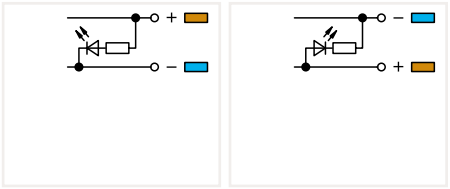
280-580/281-434 280-581/281-413



Technical Data	
0.08 … 2.5 mm²	28 … 12 AWG*
24 VDC ❶	24 V, 15 A
20 A	300 V, 15 A
Terminal block width: 5 mm / 0.197 inch	
8 … 9 mm / 0.31 … 0.35 inch	



280-584/281-483 280-586/281-496



*12 AWG: THHN, THWN

❶ Other voltages are available upon request.

Please observe the application notes:
Insulation stop, see page 346
Marking, from page 588

Approvals and corresponding ratings, visit www.wago.com

Sensor LED terminal block; for PNP (high-side) switching sensors; red LED; LED power consumption: 4.8 mA

Color	Item No.	Pack. Unit
gray	280-580/281-434	50

Sensor LED supply terminal block; power supply from sensor side; for PNP (high-side) switching sensors; green LED; LED power consumption: 4.8 mA

Color	Item No.	Pack. Unit
gray	280-584/281-483	10

Sensor LED terminal block; for NPN (low-side) switching sensors; red LED; LED power consumption: 4.8 mA

gray	280-581/281-413	50

Sensor LED supply terminal block; power supply from sensor side; for NPN (low-side) switching sensors; green LED; LED power consumption: 4.8 mA

gray	280-586/281-496	10

Accessories; 280 Series

Appropriate marking system: WMB

End and intermediate plate; 1 mm thick; for quadruple-deck terminal blocks

orange	280-323	100 (25)
gray	280-320	100 (25)

Insulation stop; 0.08 … 0.2 mm² "s" (0.14 mm² "f-st"); 5 pcs/strip

white	280-470	200 (25)

Insulation stop; 0.25 … 0.5 mm²; 5 pcs/strip

light gray	280-471	200 (25)

Insulation stop; 0.75 … 1 mm²; 5 pcs/strip

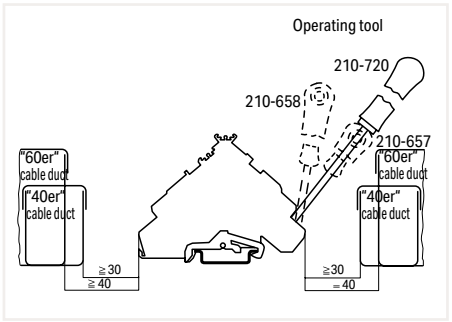
dark gray	280-472	200 (25)

Adjacent jumper; insulated; $I_N = I_N$ terminal block

gray	280-402	200 (25)

Screwless end stop; for DIN-35 rail; 6 mm wide

gray	249-116	100 (25)



Min. mounting distance – terminal blocks to cable duct

Sensor LED terminal block paired with a 4-conductor sensor

CAGE CLAMP®

Actuator terminal block; for pressure and thermo switches
2.5 mm²; 280 Series

Technical Data	
0.08 … 2.5 mm²	28 … 12 AWG*
400 V/6 kV/3 ❶	300 V, 15 A
I_N 20 A	300 V, 15 A
Terminal block width: 5 mm / 0.197 inch	
8 … 9 mm / 0.31 … 0.35 inch	

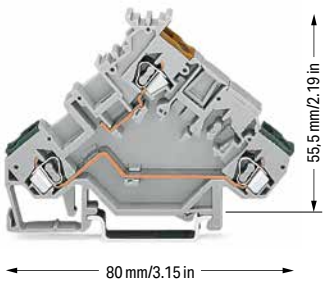
Technical Data	
0.08 … 2.5 mm²	28 … 12 AWG*
400 V/6 kV/3 ❶	300 V, 15 A
I_N 20 A	300 V, 15 A
Terminal block width: 6 mm / 0.236 inch	
8 … 9 mm / 0.31 … 0.35 inch	

*12 AWG: THHN, THWN

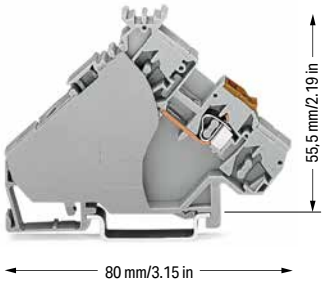
❶ 400 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

Please observe the application notes:
Insulation stop, see page 346
Marking, from page 588

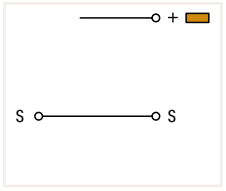
Approvals and corresponding ratings, visit www.wago.com

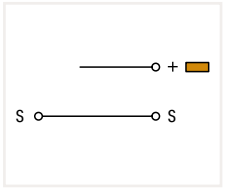


280-555



280-554

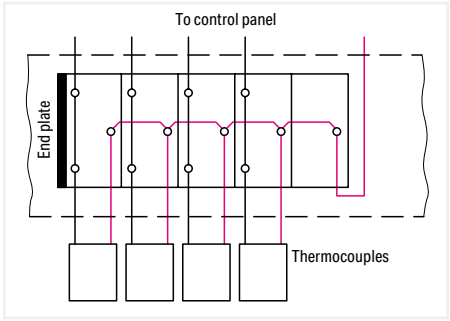




Actuator terminal block		
Color	Item No.	Pack. Unit
gray	280-555	50

Actuator supply terminal block; in connection with 280-555: power supply from control panel side; in connection with 280-554: power supply from actuator side; with end plate		
Color	Item No.	Pack. Unit
gray	280-556	20

Actuator terminal block		
gray	280-554	50



Power supply from actuator side

Accessories; 280 Series

Appropriate marking system: WMB

End and intermediate plate; 1 mm thick; for triple-deck terminal blocks

orange	280-321	100 (25)
gray	280-319	100 (25)

Insulation stop; 0.08 … 0.2 mm² "s" (0.14 mm² "f-st"); 5 pcs/strip

white	280-470	200 (25)

Insulation stop; 0.25 … 0.5 mm²; 5 pcs/strip

light gray	280-471	200 (25)

Insulation stop; 0.75 … 1 mm²; 5 pcs/strip

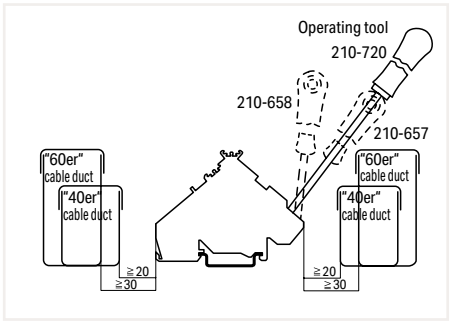
dark gray	280-472	200 (25)

Adjacent jumper; insulated; I_N = I_N terminal block

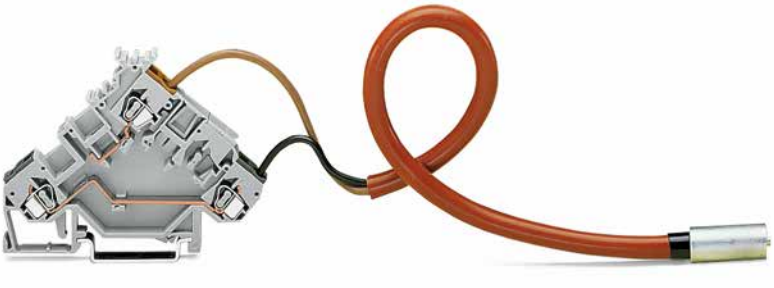
gray	280-402	200 (25)

Screwless end stop; for DIN-35 rail; 6 mm wide

gray	249-116	100 (25)



Min. mounting distance – terminal blocks to cable duct

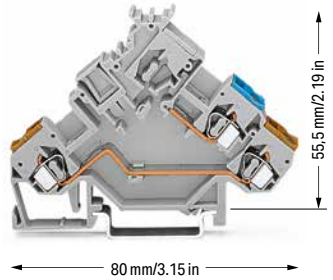


Actuator terminal block with thermocouple

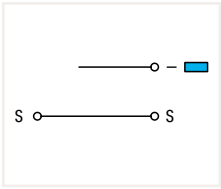
5

Actuator terminal block; for Magnetic Valves and Servo Motors
2.5 mm²; 280 Series

Technical Data	
0.08 … 2.5 mm²	28 … 12 AWG*
400 V/6 kV/3; 20 A ❶ ❷	300 V, 15 A
250 V/4 kV/3; 20 A ❶ ❷	300 V, 15 A
Terminal block width: 5 mm / 0.197 inch	
8 … 9 mm / 0.31 … 0.35 inch	

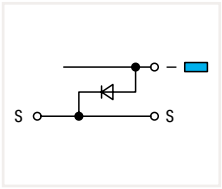


280-562



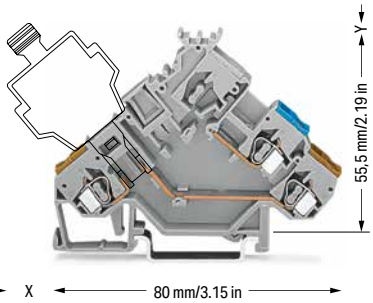
Actuator terminal block		
Color	Item No.	Pack. Unit
gray	280-562	50

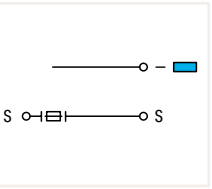
280-562/281-411



Actuator terminal block; with 1N4007 recovery diode		
gray	280-562/281-411	50

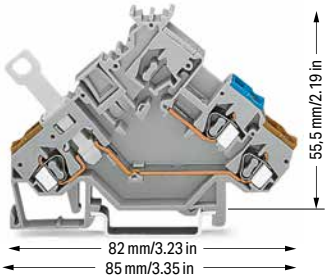
Technical Data	
0.08 … 2.5 mm²	28 … 12 AWG*
125 V / 5 A ❷	300 V, 6 A
250 V / 6.3 A ❷	300 V, 15 A
Terminal block width: 5 mm / 0.197 inch	
8 … 9 mm / 0.31 … 0.35 inch	

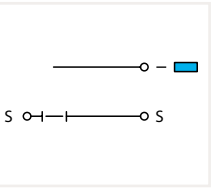




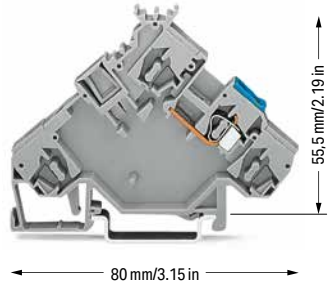
Actuator terminal block; for fuse plugs; for phase protection; without end plate		
Color	Item No.	Pack. Unit
gray	280-565 ❸	50

Technical Data	
0.08 … 2.5 mm²	28 … 12 AWG*
400 V/6 kV/3 ❶	300 V, 10 A
I_N 10 A	300 V, 15 A
Terminal block width: 5 mm / 0.197 inch	
8 … 9 mm / 0.31 … 0.35 inch	

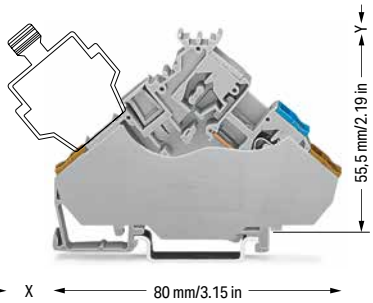


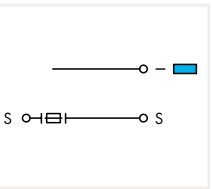


Actuator disconnect terminal block; for phase interruption		
Color	Item No.	Pack. Unit
gray	280-566	50



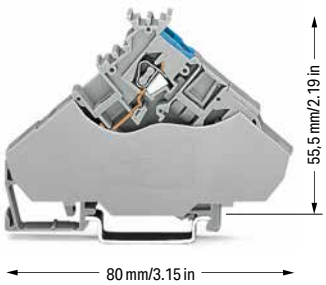
Actuator supply terminal block; power supply from actuator side		
Color	Item No.	Pack. Unit
gray	280-592	10





Actuator terminal block; for fuse plugs; for phase protection; with gray end plate Terminal block width: 6 mm / 0.236 inch		
Color	Item No.	Pack. Unit
gray	280-565/281-319	50

Actuator terminal block; for fuse plugs; for phase protection; with orange end plate Terminal block width: 6 mm / 0.236 inch		
gray	280-565/281-321	50



Actuator supply terminal block; power supply from control panel side; with end plate Terminal block width: 6 mm / 0.236 inch		
Color	Item No.	Pack. Unit
gray	280-568	20

Technical Data	
400 V/6 kV/3	I_N 20 A

*12 AWG: THHN, THWN

❶ 400 V / 250 V = rated voltage
6 kV / 4 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

❷ Electrical ratings are given by the fuse plug or empty component plug housing.

❸ Empty component plug housings, see Full Line Catalog, Interface Modules, Volume 4
x = 12 mm/0.472 inch
Fuse plug (281-511), see page 302
y = 15.5 mm/0.61 inch
x = 10 mm/0.394 inch

Please observe the application notes:
Insulation stop, see page 346
Marking, from page 588

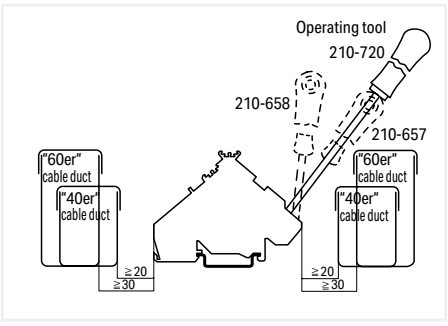
Approvals and corresponding ratings, visit www.wago.com

Sensor terminal block paired with a 3-conductor sensor

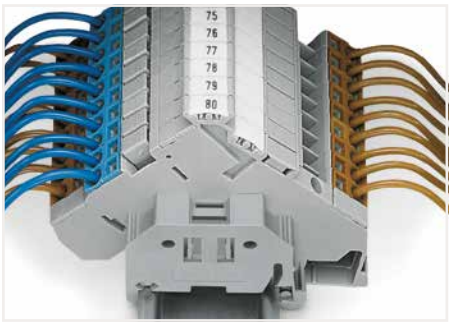
Accessories; 280 Series

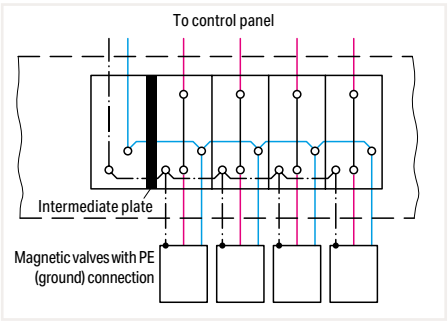
Appropriate marking system: WMB

End and intermediate plate; 1 mm thick; for triple-deck terminal blocks			
	orange	**280-321**	100 (25)
	gray	**280-319**	100 (25)
Insulation stop; 0.08 … 0.2 mm² "s" (0.14 mm² "f-st"); 5 pcs/strip			
	white	**280-470**	200 (25)
Insulation stop; 0.25 … 0.5 mm²; 5 pcs/strip			
	light gray	**280-471**	200 (25)
Insulation stop; 0.75 … 1 mm²; 5 pcs/strip			
	dark gray	**280-472**	200 (25)
Adjacent jumper; insulated; I_N = I_N terminal block			
	gray	**280-402**	200 (25)
Screwless end stop; for DIN-35 rail; 6 mm wide			
	gray	**249-116**	100 (25)
Screwless end stop; for DIN-35 rail; 10 mm wide			
	gray	**249-116**	50 (25)



Min. mounting distance – terminal blocks to cable duct

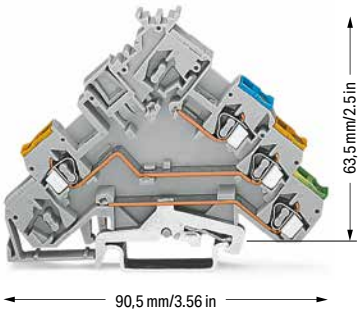




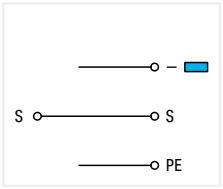
Power supply from control panel side

Actuator terminal block; with ground connection; for magnetic valves and servo motors
2.5 mm²; 280 Series

Technical Data	
0.08 … 2.5 mm²	28 … 12 AWG*
400 V/6 kV/3; 20 A ❶ ❷	300 V, 15 A
250 V/4 kV/3; 20 A ❶ ❷	300 V, 15 A
Terminal block width: 5 mm / 0.197 inch	
8 … 9 mm / 0.31 … 0.35 inch	

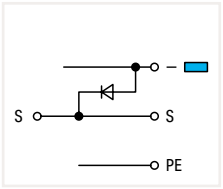


280-572



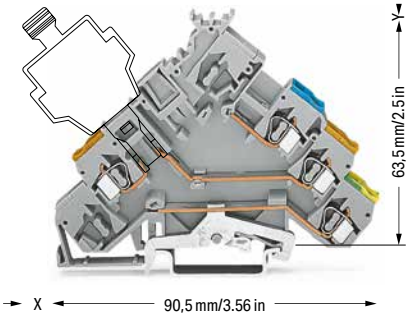
Actuator terminal block; with ground connection		
Color	Item No.	Pack. Unit
gray	280-572	50

280-572/281-411



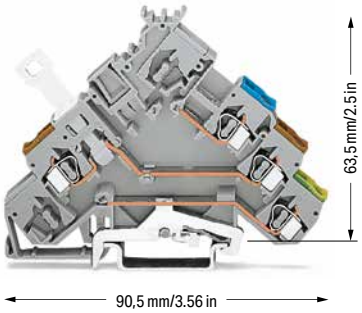
Actuator terminal block; with ground connection; with 1N4007 recovery diode		
gray	280-572/281-411	50

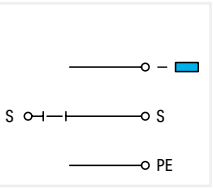
Technical Data	
0.08 … 2.5 mm²	28 … 12 AWG*
125 V / 5 A ❷	300 V, 6 A
250 V / 6.3 A ❷	300 V, 15 A
Terminal block width: 5 mm / 0.197 inch	
8 … 9 mm / 0.31 … 0.35 inch	



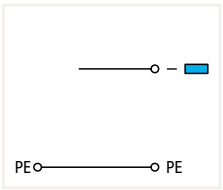
Actuator terminal block; with ground connection; for fuse plugs; for phase protection; without end plate		
Color	Item No.	Pack. Unit
gray	280-575 ❸	50

Technical Data	
0.08 … 2.5 mm²	28 … 12 AWG*
400 V/6 kV/3 ❶	300 V, 10 A
I_N 10 A	300 V, 15 A
Terminal block width: 5 mm / 0.197 inch	
8 … 9 mm / 0.31 … 0.35 inch	

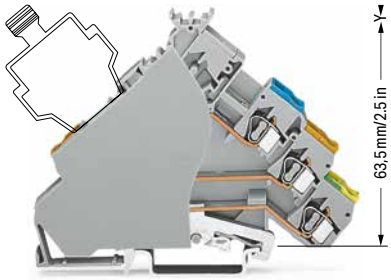


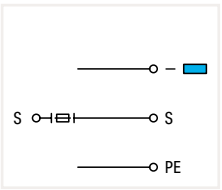


Actuator disconnect terminal block; with ground connection; for phase interruption		
Color	Item No.	Pack. Unit
gray	280-576	50



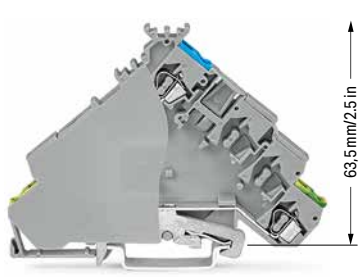
Actuator supply terminal block; with ground connection; power supply from actuator side		
Color	Item No.	Pack. Unit
gray	280-593	10

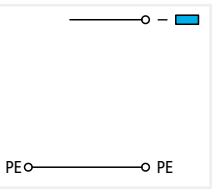




Actuator terminal block; with ground connection; for fuse plugs; for phase protection; with end plate Terminal block width: 6 mm / 0.236 inch		
Color	Item No.	Pack. Unit
gray	280-575/281-320	50

Actuator terminal block; with ground connection; for fuse plugs; for phase protection; with orange end plate Terminal block width: 6 mm / 0.236 inch		
gray	280-575/281-323	50





Actuator supply terminal block; with ground connection; power supply from control panel side; with end plate Terminal block width: 6 mm / 0.236 inch		
Color	Item No.	Pack. Unit
gray	280-578	20

Technical Data	
400 V/6 kV/3	I_N 20 A

*12 AWG: THHN, THWN

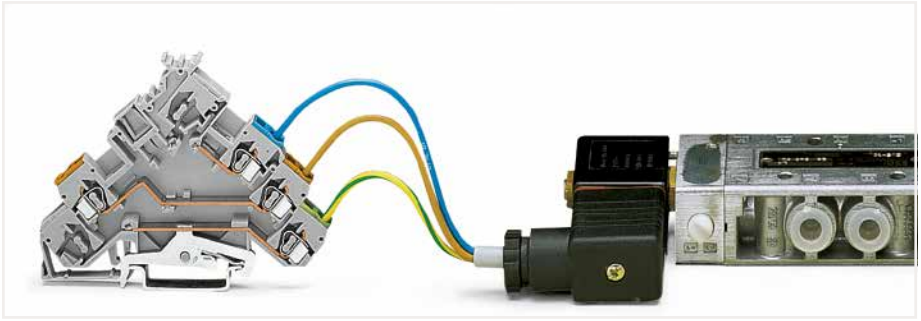
❶ 400 V / 250 V = rated voltage
6 kV / 4 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

❷ Electrical ratings are given by the fuse plug or empty component plug housing.

❸ Empty component plug housings, see Full Line Catalog, Interface Modules, Volume 4
x =12 mm/0.472 inch
Fuse plug (281-511), see page 302
x = 15.5 mm/0.61 inch
y = 10 mm/0.394 inch

Please observe the application notes:
Insulation stop, see page 346
Marking, from page 588

Approvals and corresponding ratings, visit www.wago.com

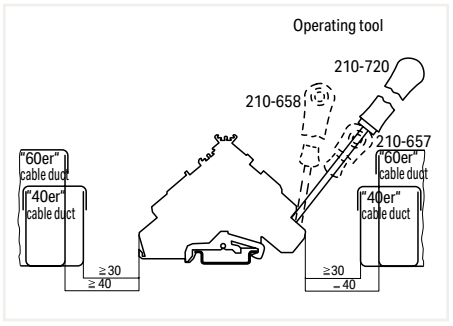


Actuator terminal block (ground connection) paired with a magnetic valve

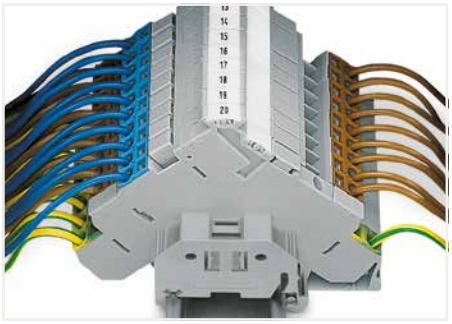
Accessories; 280 Series

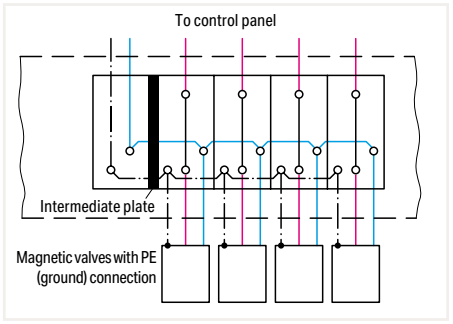
Appropriate marking system: WMB

End and intermediate plate; 1 mm thick; for quadruple-deck terminal blocks			
	orange	**280-323**	100 (25)
	gray	**280-320**	100 (25)
Insulation stop; 0.08 … 0.2 mm² "s" (0.14 mm² "f-st"); 5 pcs/strip			
	white	**280-470**	200 (25)
Insulation stop; 0.25 … 0.5 mm²; 5 pcs/strip			
	light gray	**280-471**	200 (25)
Insulation stop; 0.75 … 1 mm²; 5 pcs/strip			
	dark gray	**280-472**	200 (25)
Adjacent jumper; insulated; I_N = I_N terminal block			
	gray	**280-402**	200 (25)
Screwless end stop; for DIN-35 rail; 6 mm wide			
	gray	**249-116**	100 (25)
Screwless end stop; for DIN-35 rail; 10 mm wide			
	gray	**249-116**	50 (25)



Min. mounting distance – terminal blocks to cable duct



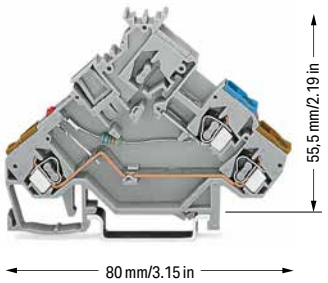


Power supply from control panel side

CAGE CLAMP®

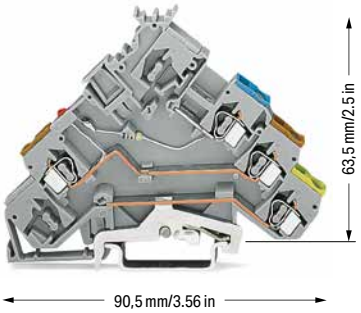
Actuator LED Terminal Block; with Ground Connection
2.5 mm²; 280 Series

Technical Data	
0.08 … 2.5 mm²	28 … 12 AWG*
24 VDC ❶	24 V, 15 A
20 A	300 V, 15 A
Terminal block width: 5 mm / 0.197 inch	
8 … 9 mm / 0.31 … 0.35 inch	



280-562/281-434 280-562/281-420

Technical Data	
0.08 … 2.5 mm²	28 … 12 AWG*
24 VDC ❶	24 V, 15 A
20 A	300 V, 15 A
Terminal block width: 5 mm / 0.197 inch	
8 … 9 mm / 0.31 … 0.35 inch	



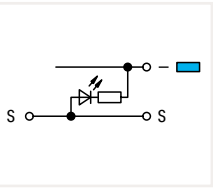
280-572/281-434 280-572/281-420

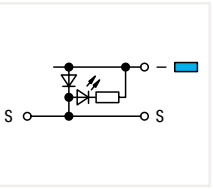
*12 AWG: THHN, THWN

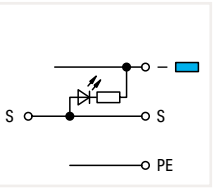
❶ Other voltages are available upon request.

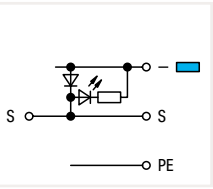
Please observe the application notes:
Insulation stop, see page 346
Marking, from page 588

Approvals and corresponding ratings, visit www.wago.com









Actuator LED terminal block; red LED; LED power consumption: 4.8 mA		
Color	Item No.	Pack. Unit
gray	280-562/281-434	50

Actuator LED terminal block; with ground connection; red LED; LED power consumption: 4.8 mA		
Color	Item No.	Pack. Unit
gray	280-572/281-434	50

Actuator LED terminal block; with 1N4007 recovery diode; red LED; LED power consumption: 4.8 mA		
gray	280-562/281-420	50

Actuator LED terminal block; with ground connection; with 1N4007 recovery diode; red LED; LED power consumption: 4.8 mA		
gray	280-572/281-420	50

Accessories; item-specific			
End and intermediate plate; 1 mm thick; for triple-deck terminal blocks			
	orange	280-321	100 (25)
	gray	280-319	100 (25)

Accessories; item-specific			
End and intermediate plate; 1 mm thick; for quadruple-deck terminal blocks			
	orange	280-323	100 (25)
	gray	280-320	100 (25)

Accessories; 280 Series

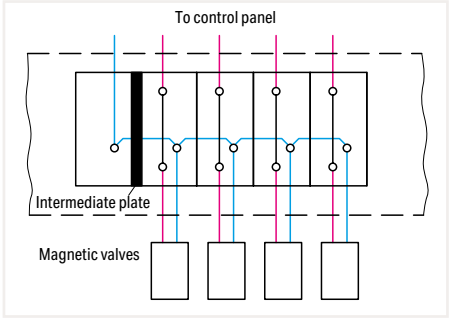
Appropriate marking system: WMB

Insulation stop; 0.08 … 0.2 mm² "s" (0.14 mm² "f-st"); 5 pcs/strip			
	white	280-470	200 (25)

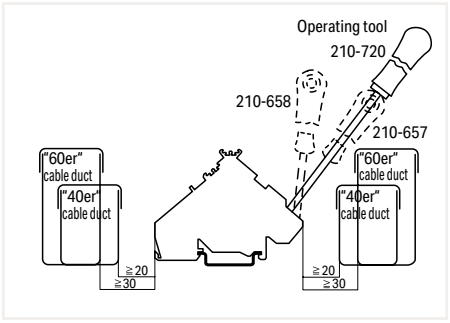
Insulation stop; 0.25 … 0.5 mm²; 5 pcs/strip			
	light gray	280-471	200 (25)

Insulation stop; 0.75 … 1 mm²; 5 pcs/strip			
	dark gray	280-472	200 (25)

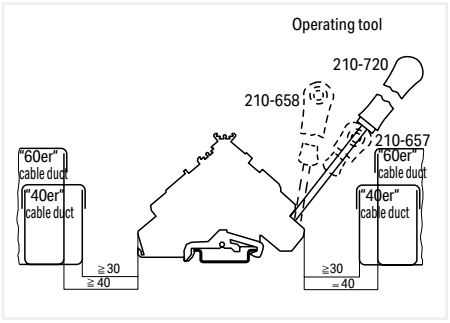
Adjacent jumper; insulated; $I_N = I_N$ terminal block			
	gray	280-402	200 (25)



Power supply from control panel side



Min. mounting distance – terminal blocks to cable duct



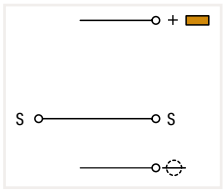
Min. mounting distance – terminal blocks to cable duct

CAGE CLAMP®

Actuator Terminal Block for Actuators with Shield Connection and Actuators with Shield Conductor Through Contact (e.g., for Thermocouples)

2.5 mm²; 280 Series

Technical Data	
0.08 … 2.5 mm²	28 … 12 AWG*
400 V/6 kV/3 ❶	300 V, 15 A
I_N 20 A	300 V, 15 A
Terminal block width: 5 mm / 0.197 inch	
8 … 9 mm / 0.31 … 0.35 inch	



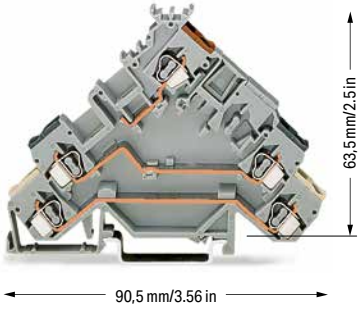
Actuator terminal block; with shield connection

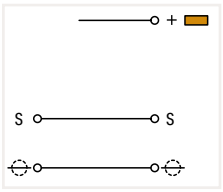
Color	Item No.	Pack. Unit
gray	280-585	50

Accessories; item-specific

see page 325

Technical Data	
0.08 … 2.5 mm²	28 … 12 AWG*
400 V/6 kV/3 ❶	300 V, 15 A
I_N 20 A	
Terminal block width: 5 mm / 0.197 inch	
8 … 9 mm / 0.31 … 0.35 inch	



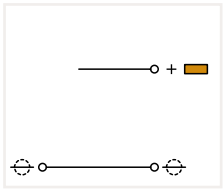


Actuator terminal block; with shield conductor through contact

Color	Item No.	Pack. Unit
gray	280-583	50

Accessories; item-specific

see page 325

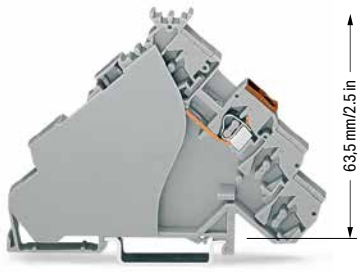


Actuator supply terminal block; with shield connection; power supply from control panel side; with end plate
Terminal block width: 6 mm / 0.236 inch

Color	Item No.	Pack. Unit
gray	280-586	10

Accessories; item-specific

see page 325



Actuator supply terminal block; power supply from control panel side; with end plate; for actuators with shield conductor through contact
Terminal block width: 6 mm / 0.236 inch

Color	Item No.	Pack. Unit
gray	280-515	50

Accessories; item-specific

see page 325

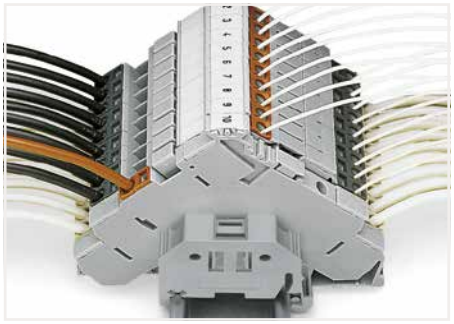
*12 AWG: THHN, THWN

❶ 400 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

Please observe the application notes:
Insulation stop, see page 346
Marking, from page 588

Approvals and corresponding ratings, visit www.wago.com

Power supply from control panel side

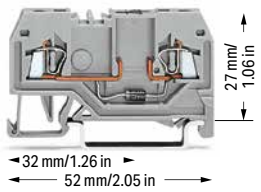


Power supply from control panel side

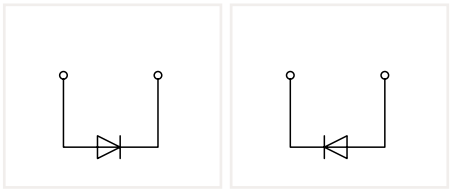
5

Diode Terminal Block and LED Terminal Block
1.5 mm²; 279 Series

Technical Data	
0.08 … 1.5 mm²	28 … 16 AWG
U_N 250 V; U_{RM} 1000 V	
1N4007 – 0.5 A continuous current	
Terminal block width: 4 mm / 0.157 inch	
8 … 9 mm / 0.31 … 0.35 inch	



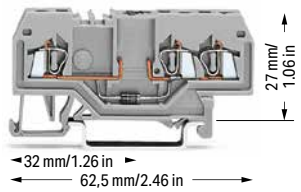
279-915/281-410 279-915/281-411



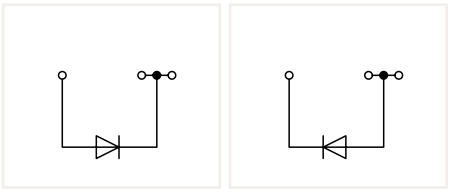
2-conductor diode terminal block; with 1N4007 diode		
Color	Item No.	Pack. Unit
gray	279-915/281-410	100
gray	279-915/281-411	100

Other terminal blocks with the same profile:		
Through	279-901	Page 234

Technical Data	
0.08 … 1.5 mm²	28 … 16 AWG
U_N 250 V; U_{RM} 1000 V	
1N4007 – 0.5 A continuous current	
Terminal block width: 4 mm / 0.157 inch	
8 … 9 mm / 0.31 … 0.35 inch	



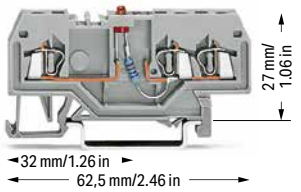
279-673/281-410 279-673/281-411



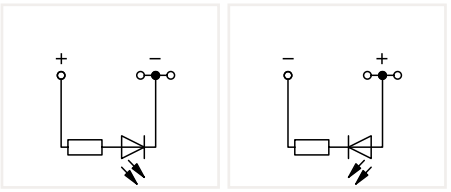
3-conductor diode terminal block; with 1N4007 diode		
Color	Item No.	Pack. Unit
gray	279-673/281-410	100
gray	279-673/281-411	100

Other terminal blocks with the same profile:		
Through	279-681	Page 234

Technical Data	
0.08 … 1.5 mm²	28 … 16 AWG
24 VDC	
I_F 0.025 A max.	
Terminal block width: 4 mm / 0.157 inch	
8 … 9 mm / 0.31 … 0.35 inch	

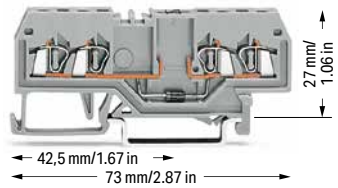


279-674/281-434 279-674/281-413

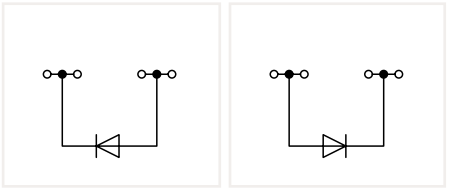


3-conductor LED terminal block; with red LED		
Color	Item No.	Pack. Unit
gray	279-674/281-434	100
gray	279-674/281-413	100

Other terminal blocks with the same profile:		
Through	279-681	Page 234

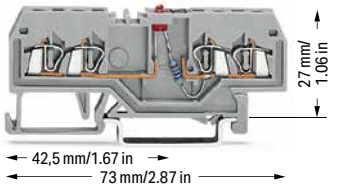


279-815/281-411 279-815/281-410

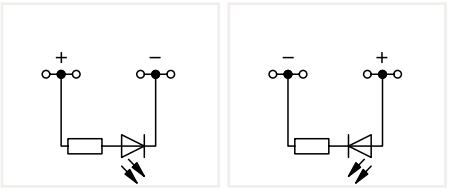


4-conductor diode terminal block; with 1N4007 diode		
Color	Item No.	Pack. Unit
gray	279-815/281-411	100
gray	279-815/281-410	100

Other terminal blocks with the same profile:		
Through	279-831	Page 234



279-809/281-434 279-809/281-413



4-conductor LED terminal block; with red LED		
Color	Item No.	Pack. Unit
gray	279-809/281-434	100
gray	279-809/281-413	100

Other terminal blocks with the same profile:		
Through	279-831	Page 234

CAGE CLAMP®

Diode Terminal Blocks and LED Terminal Blocks
Circuit Configuration Examples

Please observe the application notes:
Insulation stop, page 346
Comb-style jumper bar, page 347
Marking, from page 588

Approvals and corresponding ratings, visit www.wago.com

Accessories; 279 Series

Appropriate marking system: WMB

Insulation stop; 0.08 … 0.2 mm² "s" (0.14 mm² "f-st"); 5 pcs/strip

white	**279-470**	200 (25)

Insulation stop; 0.25 mm²; 5 pcs/strip

dark gray	**279-471**	200 (25)

Comb-style jumper bar; insulated; I_N = I_N of terminal block

2-way	**279-482**	200 (25)
3-way	**279-483**	200 (25)

Comb-style jumper bar; insulated; I_N = I_N of terminal block

10-way	**279-490**	50 (25)

Alternate comb-style jumper bar; insulated; I_N = I_N of terminal block

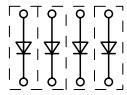
2-way	**279-492**	200 (25)

Operating tool; insulated

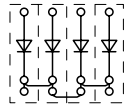
2-way	**279-432**	1
3-way	**279-433**	1

Operating tool; insulated

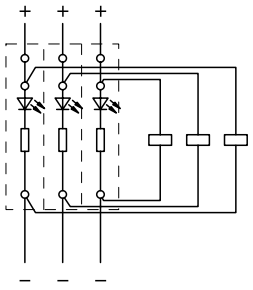
10-way	**279-440**	1



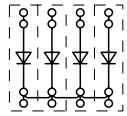
Open diode gates can be created using the following terminal blocks:
279-915/281-410 or 279-915/281-411



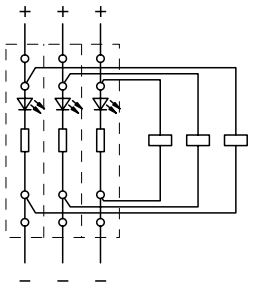
Polarized diode gates with a common cathode can be created using the following terminal blocks:
279-673/281-410 or 279-673/281-411



Circuit-related voltage indications can be created using the following terminal blocks:
279-674/281-434 or 279-674/281-413



Polarized diode gates with a common cathode can be created using the following terminal blocks:
279-815/281-410 or 279-815/281-411

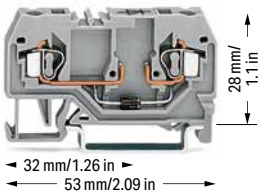


Circuit-related voltage indications can be created using the following terminal blocks:
279-809/281-434 or 279-809/281-413

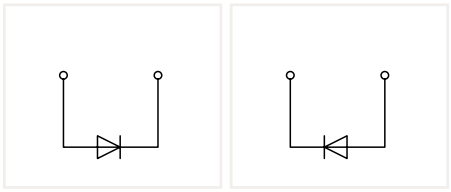
5

Diode Terminal Block and LED Terminal Block
2.5 mm²; 280 Series

Technical Data	
0.08 … 2.5 mm²	28 … 14 AWG
U_N 250 V; U_{RM} 1000 V	
1N4007 – 0.5 A continuous current	
Terminal block width: 5 mm / 0.197 inch	
8 … 9 mm / 0.31 … 0.35 inch	



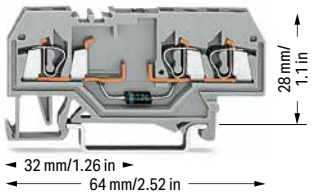
280-915/281-410 280-915/281-411



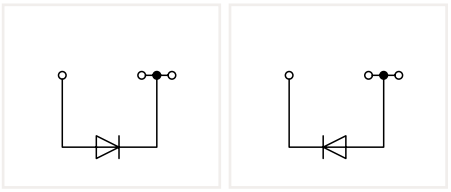
2-conductor diode terminal block; with 1N4007 diode		
Color	Item No.	Pack. Unit
gray	280-915/281-410	100
gray	280-915/281-411	100

Other terminal blocks with the same profile:		
Through	280-901	Page 236

Technical Data	
0.08 … 2.5 mm²	28 … 14 AWG
U_N 250 V; U_{RM} 1000 V	
1N4007 – 0.5 A continuous current	
Terminal block width: 5 mm / 0.197 inch	
8 … 9 mm / 0.31 … 0.35 inch	



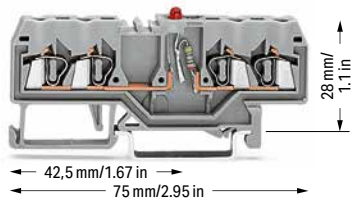
280-673/281-410 280-673/281-411



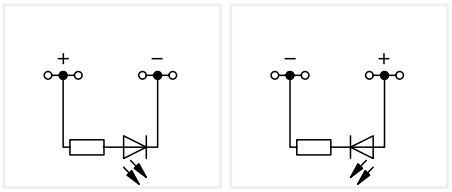
3-conductor diode terminal block; with 1N4007 diode		
Color	Item No.	Pack. Unit
gray	280-673/281-410	100
gray	280-673/281-411	100

Other terminal blocks with the same profile:		
Through	280-681	Page 236

Technical Data	
0.08 … 2.5 mm²	28 … 14 AWG
24 VDC	
I_F 0.025 A max.	
Terminal block width: 5 mm / 0.197 inch	
8 … 9 mm / 0.31 … 0.35 inch	

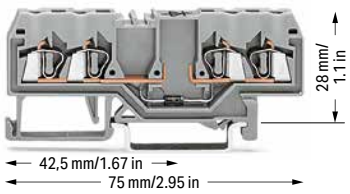


280-809/281-434 280-809/281-413

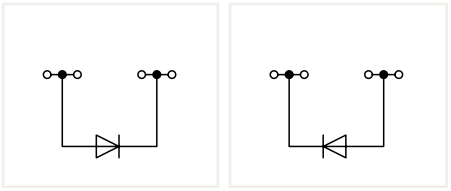


4-conductor LED terminal block; with red LED		
Color	Item No.	Pack. Unit
gray	280-809/281-434	100
gray	280-809/281-413	100

Other terminal blocks with the same profile:		
Through	280-833	Page 236



280-815/281-410 280-815/281-411



4-conductor diode terminal block; with 1N4007 diode		
Color	Item No.	Pack. Unit
gray	280-815/281-410	100
gray	280-815/281-411	100

Other terminal blocks with the same profile:		
Through	280-833	Page 236

CAGE CLAMP®

Diode Terminal Blocks and LED Terminal Blocks
Circuit Configuration Examples

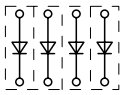
Please observe the application notes:
Insulation stop, page 346
Comb-style jumper bar, page 347
Marking, from page 588

Approvals and corresponding ratings, visit www.wago.com

Accessories; 280 Series

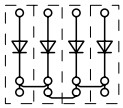
Appropriate marking system: WMB

Insulation stop; 0.08 … 0.2 mm² "s" (0.14 mm² "f-st"); 5 pcs/strip			
	white	**280-470**	200 (25)
Insulation stop; 0.25 … 0.5 mm²; 5 pcs/strip			
	light gray	**280-471**	200 (25)
Insulation stop; 0.75 … 1 mm²; 5 pcs/strip			
	dark gray	**280-472**	200 (25)
Comb-style jumper bar; insulated; I_N = I_N of terminal block			
	2-way	**280-482**	200 (25)
	3-way	**280-483**	200 (25)
Comb-style jumper bar; insulated; I_N = I_N of terminal block			
	10-way	**280-490**	50 (25)
Alternate comb-style jumper bar; insulated; I_N = I_N of terminal block			
	2-way	**280-492**	200 (25)
Operating tool; insulated			
	2-way	**280-432**	1
	3-way	**280-433**	1
Operating tool; insulated			
	10-way	**280-440**	1
Wire commoning chain; insulated; 50 connections; I_N 8 A			
	black	**210-103**	5
Wire commoning chain; insulated; 50 connections; I_N 8 A			
	blue	**210-123**	5

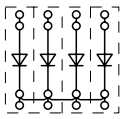


Open diode gates can be created using the following terminal blocks:
280-915/281-410 or 280-915/281-411

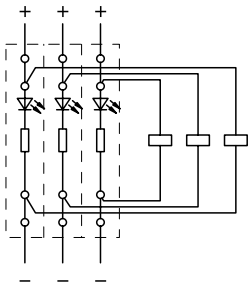
These diode terminal blocks have been specially developed for custom diode circuits, such as lamp test and collective fault signal circuits.



Polarized diode gates with a common cathode can be created using the following terminal blocks:
280-673/281-410 or 280-673/281-411



Polarized diode gates with a common cathode can be created using the following terminal blocks:
280-815/281-410 or 280-815/281-411

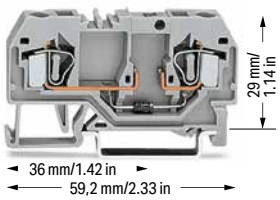


Circuit-related voltage indications can be created using the following terminal blocks:
280-809/281-434 or 280-809/281-413

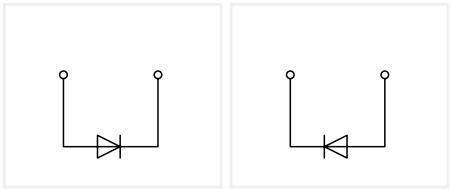
5

Diode Terminal Block
4 mm²; 281 Series

Technical Data	
0.08 … 4 mm²	28 … 12 AWG
U_N 250 V; U_{RM} 1000 V	
Terminal block width: 6 mm / 0.236 inch	
9 … 10 mm / 0.35 … 0.39 inch	



281-915/281-410 281-915/281-411

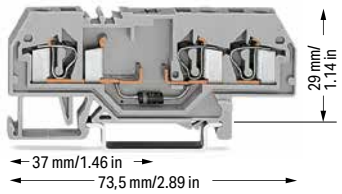


2-conductor diode terminal block; with 1N4007 diode; 0.5 A continuous current		
Color	Item No.	Pack. Unit
gray	281-915/281-410	50
gray	281-915/281-411	50

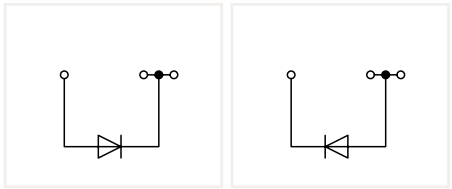
2-conductor diode terminal block; with 1N4007 diode; 1.5 A continuous current		
gray	281-915/281-400	50
gray	281-915/281-401	50

Other terminal blocks with the same profile:		
Through	281-901	Page 242

Technical Data	
0.08 … 4 mm²	28 … 12 AWG
U_N 250 V; U_{RM} 1000 V	
Terminal block width: 6 mm / 0.236 inch	
9 … 10 mm / 0.35 … 0.39 inch	



281-673/281-410 281-673/281-411

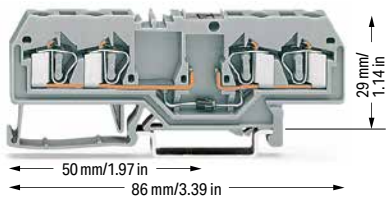


3-conductor diode terminal block; with 1N4007 diode; 0.5 A continuous current		
Color	Item No.	Pack. Unit
gray	281-673/281-410	50
gray	281-673/281-411	50

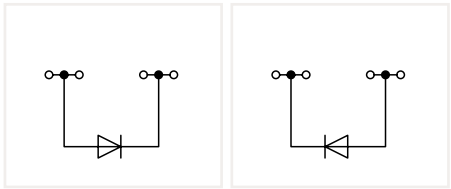
3-conductor diode terminal block; with 1N4007 diode; 1.5 A continuous current		
gray	281-673/281-400	50
gray	281-673/281-401	50

Other terminal blocks with the same profile:		
Through	281-681	Page 242

Technical Data	
0.08 … 4 mm²	28 … 12 AWG
U_N 250 V; U_{RM} 1000 V	
Terminal block width: 6 mm / 0.236 inch	
9 … 10 mm / 0.35 … 0.39 inch	



281-665/281-410 281-665/281-410



4-conductor diode terminal block; with 1N4007 diode; 0.5 A continuous current		
Color	Item No.	Pack. Unit
gray	281-665/281-410	50
gray	281-665/281-411	50

4-conductor diode terminal block; with 1N4007 diode; 1.5 A continuous current		
gray	281-665/281-400	50
gray	281-665/281-401	50

Other terminal blocks with the same profile:		
Through	280-652	Page 242

Diode Terminal Blocks
Circuit Configuration Examples

Please observe the application notes:
Insulation stop, page 346
Comb-style jumper bar, page 347
Marking, from page 588

Approvals and corresponding ratings, visit www.wago.com

Accessories; 281 Series

Appropriate marking system: WMB

Insulation stop; 0.08 … 0.2 mm² "s" (0.14 mm² "f-st"); 5 pcs/strip

white	**281-470**	200 (25)

Insulation stop; 0.25 … 0.5 mm²; 5 pcs/strip

light gray	**281-471**	200 (25)

Insulation stop; 0.75 … 1.5 mm²; 5 pcs/strip

dark gray	**281-472**	200 (25)

Comb-style jumper bar; insulated; I_N = I_N of terminal block

2-way	**281-482**	100 (25)
3-way	**281-483**	100 (25)
5-way	**281-485**	100 (25)
10-way	**281-490**	50 (25)

Alternate comb-style jumper bar; insulated; I_N = I_N of terminal block

2-way	**281-492**	100 (25)

Operating tool; insulated

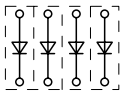
2-way	**280-432**	1
3-way	**280-433**	1
5-way	**281-440**	1

Wire commoning chain; insulated; 50 connections; I_N 8 A

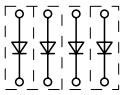
black	**210-103**	5

Wire commoning chain; insulated; 50 connections; I_N 8 A

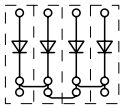
blue	**210-123**	5



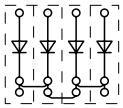
Open diode gates can be created using the following terminal blocks:
281-915/281-410 or 281-915/281-411



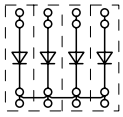
Open diode gates can be created using the following terminal blocks:
281-915/281-400 or 281-915/281-401



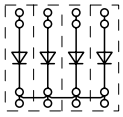
Polarized diode gates with a common cathode can be created using the following terminal blocks:
281-673/281-410 or 281-673/281-411



Polarized diode gates with a common cathode can be created using the following terminal blocks:
281-673/281-400 or 281-673/281-401



Polarized diode gates with a common cathode can be created using the following terminal blocks:
281-665/281-410 or 281-665/281-411

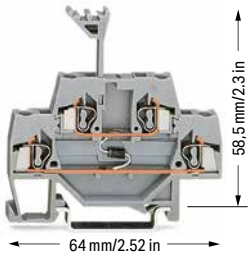


Polarized diode gates with a common cathode can be created using the following terminal blocks:
281-665/281-400 or 281-665/281-401

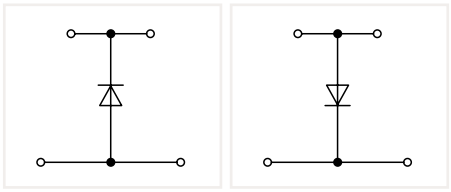
5

Double-Deck Diode Terminal Block and LED Terminal Block
2.5 mm²; 280 Series

Technical Data	
0.08 … 2.5 mm²	28 … 14 AWG
U_N 250 V; U_{RM} 1000 V	
1N4007 – 0.5 A continuous current	
Terminal block width: 5 mm / 0.197 inch	
8 … 9 mm / 0.31 … 0.35 inch	

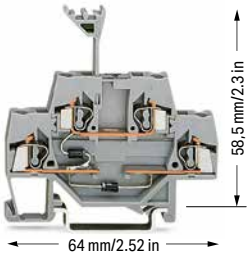


280-940/281-410 280-940/281-411

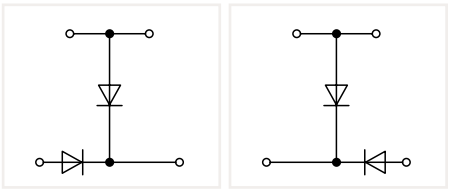


Double-deck diode terminal block; with 1N4007 diode		
Color	Item No.	Pack. Unit
gray	280-940/281-410	50
gray	280-940/281-411	50

Technical Data	
0.08 … 2.5 mm²	28 … 14 AWG
U_N 250 V; U_{RM} 1000 V	
1N4007 – 0.5 A continuous current	
Terminal block width: 5 mm / 0.197 inch	
8 … 9 mm / 0.31 … 0.35 inch	

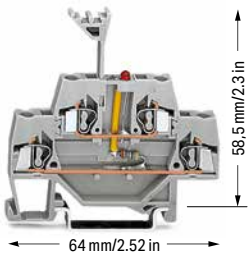


280-941/281-492 280-941/281-491

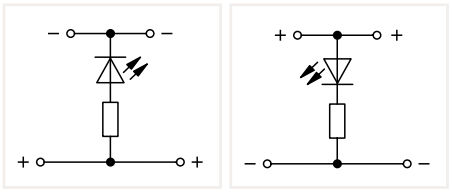


Double-deck diode terminal block; with two 1N4007 diodes		
Color	Item No.	Pack. Unit
gray	280-941/281-492	50
gray	280-941/281-491	50

Technical Data	
0.08 … 2.5 mm²	28 … 14 AWG
24 VDC	
I_F 0.025 A max.	
Terminal block width: 5 mm / 0.197 inch	
8 … 9 mm / 0.31 … 0.35 inch	



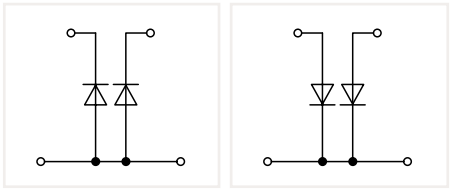
280-943/281-434 280-943/281-413



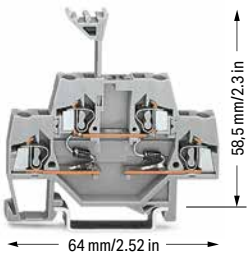
Double-deck LED terminal block; with red LED		
Color	Item No.	Pack. Unit
gray	280-943/281-434	50
gray	280-943/281-413	50

Other terminal blocks with the same profile:		
Through	280-519	Page 256

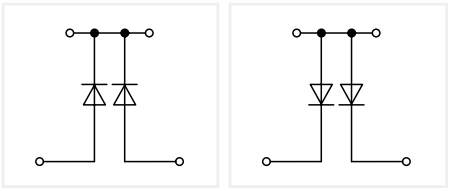
280-942/281-487 280-942/281-488



Double-deck diode terminal block; with two 1N4007 diodes		
Color	Item No.	Pack. Unit
gray	280-942/281-487	50
gray	280-942/281-488	50



280-941/281-489 280-941/281-490



Double-deck diode terminal block; with two 1N4007 diodes		
Color	Item No.	Pack. Unit
gray	280-941/281-489	50
gray	280-941/281-490	50

CAGE CLAMP®

Double-Deck Diode Terminal Blocks and LED Terminal Blocks
Circuit Configuration Examples

Please observe the application notes:
Insulation stop, page 346
Comb-style jumper bar, page 347
Marking, from page 588

Approvals and corresponding ratings, visit www.wago.com

Accessories; 280 Series

Appropriate marking system: WMB

End and intermediate plate; 2.5 mm thick

orange	280-341	100 (25)
gray	280-340	100 (25)

Insulation stop; 0.08 … 0.2 mm² "s" (0.14 mm² "f-st"); 5 pcs/strip

white	280-470	200 (25)

Insulation stop; 0.25 … 0.5 mm²; 5 pcs/strip

light gray	280-471	200 (25)

Insulation stop; 0.75 … 1 mm²; 5 pcs/strip

dark gray	280-472	200 (25)

Comb-style jumper bar; insulated; I_N = I_N of terminal block

2-way	280-482	200 (25)
3-way	280-483	200 (25)

Comb-style jumper bar; insulated; I_N = I_N of terminal block

10-way	280-490	50 (25)

Alternate comb-style jumper bar; insulated; I_N = I_N of terminal block

2-way	280-492	200 (25)

Operating tool; insulated

2-way	280-432	1
3-way	280-433	1

Operating tool; insulated

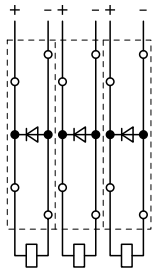
10-way	280-440	1

Wire commoning chain; insulated; 50 connections; I_N 8 A

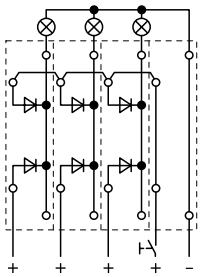
black	210-103	5

Wire commoning chain; insulated; 50 connections; I_N 8 A

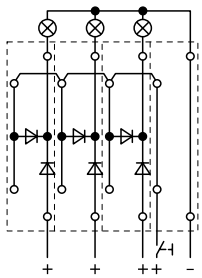
blue	210-123	5



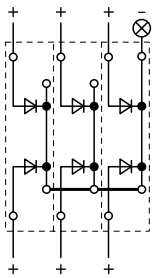
Recovery diodes can be created using the following terminal blocks:
280-940/281-410 or 280-940/281-411



Lamp test circuits can be created using the following terminal blocks:
280-942/281-487 or 280-942/281-488

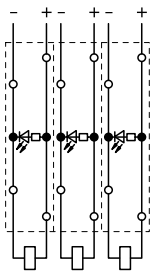


Lamp test circuits can be created using the following terminal blocks:
280-941/281-492 or 280-941/281-491



Collective fault signals can be created using the following terminal blocks:
280-941/281-489 or 280-941/281-490

Double-deck diode terminal blocks were specifically developed for custom diode circuits, such as lamp test and collective fault signal circuits.
Using LED terminal blocks, monitoring units can be designed, e.g., for control and operating circuits.
These terminal blocks provide high-density wiring in a width of just 5 mm.

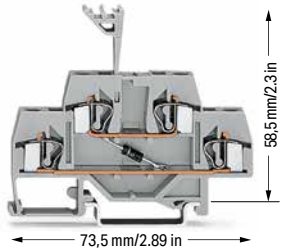


Circuit-related voltage indications can be created using the following terminal blocks:
280-943/281-434 or 280-943/281-413

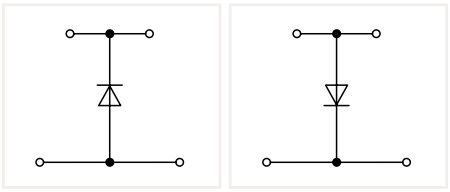
5

Double-Deck Diode Terminal Block and LED Terminal Block
4 mm²; 281 Series

Technical Data	
0.08 … 4 mm²	28 … 12 AWG
U_N 250 V; U_{RM} 1000 V	
1N4007 – 0.5 A continuous current	
Terminal block width: 6 mm / 0.236 inch	
9 … 10 mm / 0.35 … 0.39 inch	



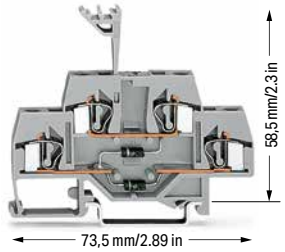
281-633/281-410 281-633/281-411



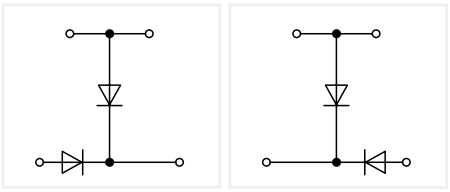
Double-deck diode terminal block; with 1N4007 diode		
Color	Item No.	Pack. Unit
gray	281-633/281-410	50
gray	281-633/281-411	50

Other terminal blocks with the same profile:		
Through	280-519	Page 260

Technical Data	
0.08 … 4 mm²	28 … 12 AWG
U_N 250 V; U_{RM} 1000 V	
1N4007 – 0.5 A continuous current	
Terminal block width: 6 mm / 0.236 inch	
9 … 10 mm / 0.35 … 0.39 inch	

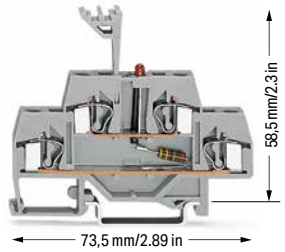


281-635/281-492 281-635/281-491

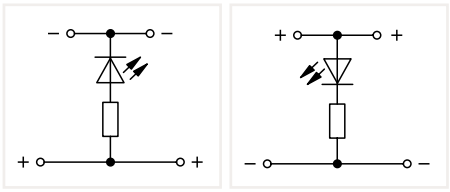


Double-deck diode terminal block; with two 1N4007 diodes		
Color	Item No.	Pack. Unit
gray	281-635/281-492	50
gray	281-635/281-491	50

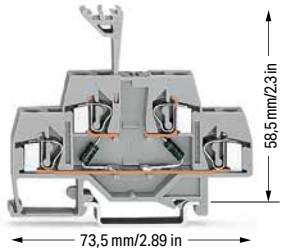
Technical Data	
0.08 … 4 mm²	28 … 12 AWG
24 VDC	
I_F 0.025 A max.	
Terminal block width: 6 mm / 0.236 inch	
9 … 10 mm / 0.35 … 0.39 inch	



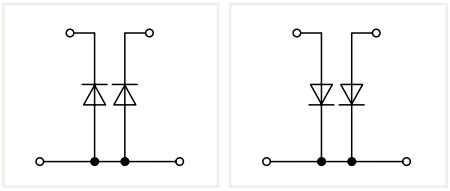
281-634/281-434 281-634/281-413



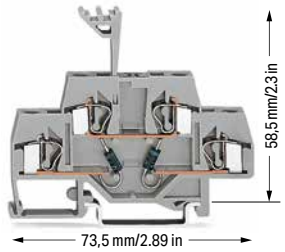
Double-deck LED terminal block; with red LED		
Color	Item No.	Pack. Unit
gray	281-634/281-434	50
gray	281-634/281-413	50



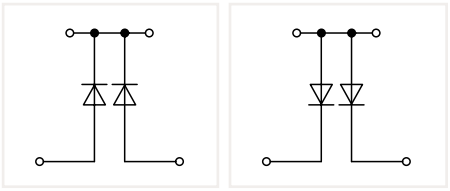
281-636/281-487 281-636/281-488



Double-deck diode terminal block; with two 1N4007 diodes		
Color	Item No.	Pack. Unit
gray	281-636/281-487	50
gray	281-636/281-488	50



281-635/281-489 281-635/281-490



Double-deck diode terminal block; with two 1N4007 diodes		
Color	Item No.	Pack. Unit
gray	281-635/281-489	50
gray	281-635/281-490	50

CAGE CLAMP®

Double-Deck Diode Terminal Blocks and LED Terminal Blocks
Circuit Configuration Examples

Please observe the application notes:
Insulation stop, page 346
Comb-style jumper bar, page 347
Marking, from page 588

Approvals and corresponding ratings, visit www.wago.com

Accessories; 280 Series

Appropriate marking system: WMB

End and intermediate plate; 2.5 mm thick

orange	281-341	100 (25)
gray	281-340	100 (25)

Insulation stop; 0.08 … 0.2 mm² "s" (0.14 mm² "f-st"); 5 pcs/strip

white	281-470	200 (25)

Insulation stop; 0.25 … 0.5 mm²; 5 pcs/strip

light gray	281-471	200 (25)

Insulation stop; 0.75 … 1.5 mm²; 5 pcs/strip

dark gray	281-472	200 (25)

Comb-style jumper bar; insulated; I_N = I_N of terminal block

2-way	281-482	100 (25)
3-way	281-483	100 (25)
5-way	281-485	100 (25)
10-way	281-490	50 (25)

Alternate comb-style jumper bar; insulated; I_N = I_N of terminal block

2-way	280-492	200 (25)

Operating tool; insulated

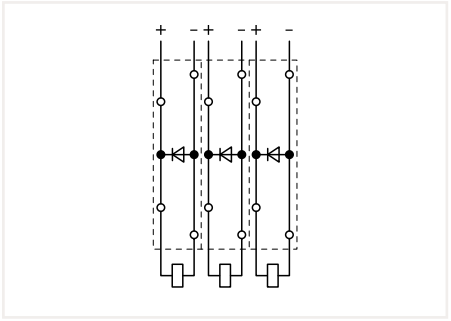
2-way	280-432	1
3-way	280-433	1
5-way	281-440	1

Wire commoning chain; insulated; 50 connections; I_N 8 A

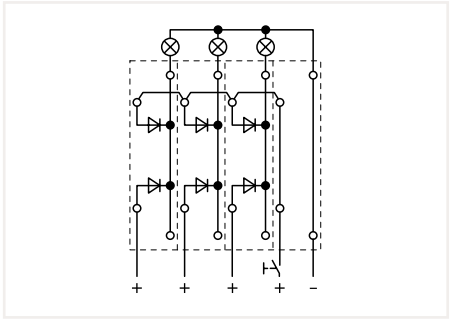
black	210-103	5

Wire commoning chain; insulated; 50 connections; I_N 8 A

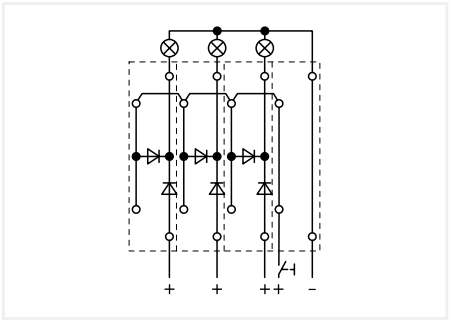
blue	210-123	5



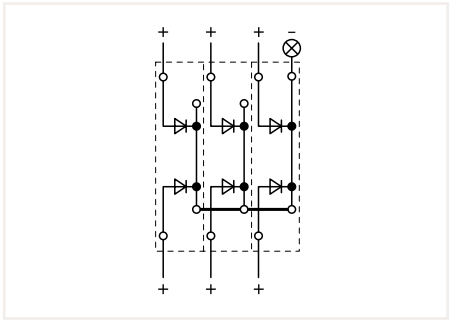
Recovery diodes can be created using the following terminal blocks:
281-633/281-410 or 281-633/281-411



Lamp test circuits can be created using the following terminal blocks:
281-636/281-487 or 281-636/281-488

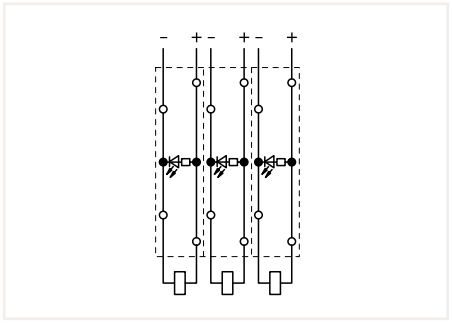


Lamp test circuits can be created using the following terminal blocks:
281-635/281-492 or 281-635/281-491



Collective fault signals can be created using the following terminal blocks:
281-635/281-489 or 281-635/281-490

Double-deck diode terminal blocks were specifically developed for custom diode circuits, such as lamp test and collective fault signal circuits.
Using LED terminal blocks, monitoring units can be designed, e.g., for control and operating circuits.
These terminal blocks provide high-density wiring in a width of just 6 mm.



Circuit-related voltage indications can be created using the following terminal blocks:
281-634/281-434 or 281-634/281-413

5

CAGE CLAMP®

Pluggable Diode Module on Carrier Terminal Block 2.5 mm²
280 Series

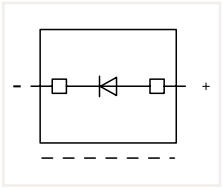
Technical Data

U_N 250 V; U_{RM} 1000 V

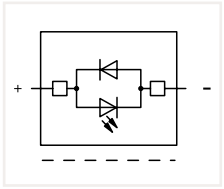
I_N 0.5 A

Plug width: 5 mm / 0.197 inch

280-801/281-411



280-801/281-420



Diode module; with 1N4007 diode; 5 mm wide

Color	Item No.	Pack. Unit
gray	280-801/281-411	100

Diode module; with 1N4007 recovery diode; red LED; 5 mm wide; gray

24 VDC	280-801/281-420	100
48 VDC	280-801/281-421	100

Accessories; Carrier Terminal Blocks

Appropriate marking system: WMB

2-conductor carrier terminal block; 0.08 … 2.5 mm² / 28 … 12 AWG* Terminal block width: 5 mm / 0.197 inch

gray	280-916	100

End and intermediate plate; 2.5 mm thick

orange	280-309	100 (25)
gray	280-308	100 (25)

3-conductor carrier terminal block; 0.08 … 2.5 mm² / 28 … 12 AWG* Terminal block width: 5 mm / 0.197 inch

gray	280-610	100

End and intermediate plate; 2.5 mm thick

orange	280-326	100 (25)
gray	280-324	100 (25)

4-conductor carrier terminal block; 0.08 … 2.5 mm² / 28 … 12 AWG* Terminal block width: 5 mm / 0.197 inch

gray	280-816	100

End and intermediate plate; 2.5 mm thick

orange	280-315	100 (25)
gray	280-314	100 (25)

*12 AWG: THHN, THWN

Please observe the application notes:
Insulation stop, page 346
Comb-style jumper bar, page 347
Marking, from page 588

Approvals and corresponding ratings, visit www.wago.com

Accessories; 280 Series

Appropriate marking system: WMB

Insulation stop; 0.08 … 0.2 mm² "s" (0.14 mm² "f-st"); 5 pcs/strip

white	280-470	200 (25)

Insulation stop; 0.25 … 0.5 mm²; 5 pcs/strip

light gray	280-471	200 (25)

Insulation stop; 0.75 … 1 mm²; 5 pcs/strip

dark gray	280-472	200 (25)

Comb-style jumper bar; insulated; I_N = I_N of terminal block

2-way	280-482	200 (25)
3-way	280-483	200 (25)

Comb-style jumper bar; insulated; I_N = I_N of terminal block

10-way	280-490	50 (25)

Alternate comb-style jumper bar; insulated; I_N = I_N of terminal block

2-way	280-492	200 (25)

Operating tool; insulated

2-way	280-432	1
3-way	280-433	1

Operating tool; insulated

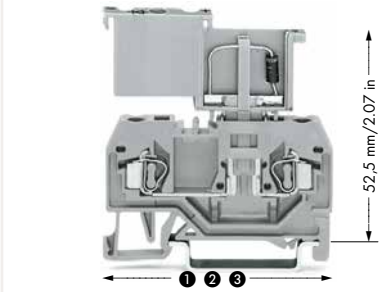
10-way	280-440	1

Wire commoning chain; insulated; 50 connections; I_N 8 A

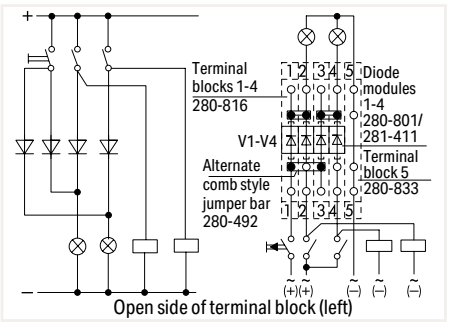
black	210-103	5

Wire commoning chain; insulated; 50 connections; I_N 8 A

blue	210-123	5

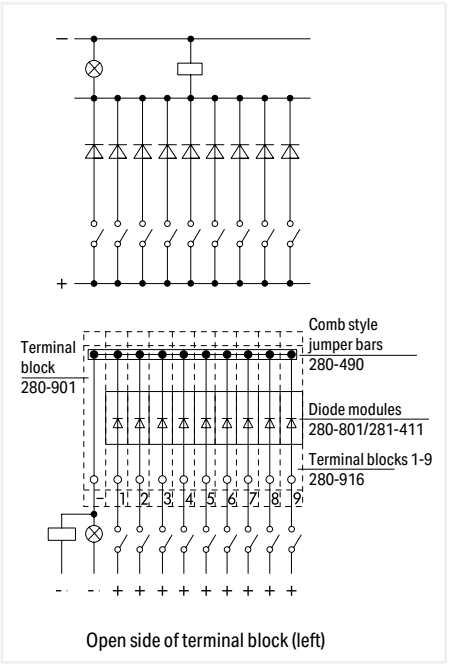


Lengths of carrier terminal blocks with a pluggable diode module:
1. 53 mm / 2.09 inch for 280-916
2. 64 mm / 2.52 inch for 280-610
3. 75 mm / 2.95 inch for 280-816



Lamp test circuit with blocking diodes

These diode modules are ideal for custom diode circuits (e.g., lamp test and collective fault signal circuits) and offer the following advantages:
- Separation into functional and wiring levels
- Polarized switching direction
- Quick and easy module replacement
- Terminal blocks/modules provide high-density wiring in a width of just 5 mm



Diode gate for collective fault indication

CAGE CLAMP®

Pluggable Diode Module on Through Terminal Block 2.5 mm²
280 Series

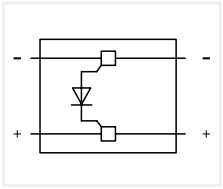
Technical Data

U_N 250 V; U_{RM} 1000 V

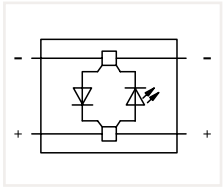
I_N 0.5 A

Plug width: 10 mm / 0.394 inch

280-803/281-411



280-803/281-420



Diode module; with 1N4007 diode; 10 mm wide

Color	Item No.	Pack. Unit
◯ gray	**280-803/281-411**	50

Diode module; with 1N4007 recovery diode; red LED; 10 mm wide; gray

◯ 24 VDC	**280-803/281-420**	50
◯ 48 VDC	**280-803/281-421**	50

Accessories; Through Terminal Blocks

Appropriate marking system:
WMB

2-conductor through terminal block; 0.08 … 2.5 mm² / 28 … 12 AWG* Terminal block width: 5 mm / 0.197 inch

gray **280-901** 100

End and intermediate plate; 2.5 mm thick

orange **280-309** 100 (25)
gray **280-308** 100 (25)

3-conductor through terminal block; 0.08 … 2.5 mm² / 28 … 12 AWG* Terminal block width: 5 mm / 0.197 inch

gray **280-681** 100

End and intermediate plate; 2.5 mm thick

orange **280-326** 100 (25)
gray **280-324** 100 (25)

4-conductor through terminal block; 0.08 … 2.5 mm² / 28 … 12 AWG* Terminal block width: 5 mm / 0.197 inch

gray **280-833** 100

End and intermediate plate; 2.5 mm thick

orange **280-315** 100 (25)
gray **280-314** 100 (25)

*12 AWG: THHN, THWN

Please observe the application notes:
Insulation stop, page 346
Comb-style jumper bar, page 347
Marking, from page 588

Approvals and corresponding ratings, visit www.wago.com

Accessories; 280 Series

Appropriate marking systems:
WMB/WMB Inline/WFB

2-conductor through terminal block; 0.08 … 2.5 mm² / 28 … 12 AWG* Terminal block width: 5 mm / 0.197 inch

gray **280-101** 100

End and intermediate plate; 2.5 mm thick

orange **280-302** 100 (25)
gray **280-301** 100 (25)

Insulation stop; 0.08 … 0.2 mm² "s" (0.14 mm² "f-st"); 5 pcs/strip

white **280-470** 200 (25)

Insulation stop; 0.25 … 0.5 mm²; 5 pcs/strip

light gray **280-471** 200 (25)

Insulation stop; 0.75 … 1 mm²; 5 pcs/strip

dark gray **280-472** 200 (25)

Adjacent jumper; insulated; I_N = I_N terminal block

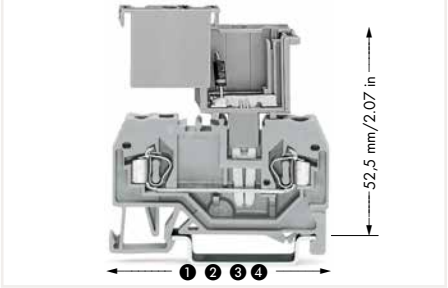
gray **280-402** 200 (25)

Wire commoning chain; insulated; 50 connections; I_N 8 A

black **210-103** 5

Wire commoning chain; insulated; 50 connections; I_N 8 A

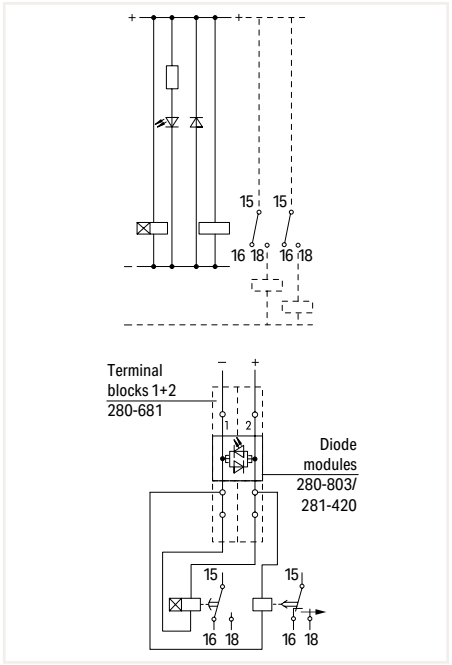
blue **210-123** 5



Lengths of through terminal blocks with a pluggable diode module:
❶ 53 mm / 2.09 inch for 280-901
❷ 64 mm / 2.52 inch for 280-681
❸ 75 mm / 2.95 inch for 280-833
❹ 45.5 mm / 1.67 inch for 280-101

Similar to push-in type jumpers, these diode modules are simply pushed into the current bar's contact slots of two adjacent through terminal blocks, providing the following advantages:

- Compatibility with all 280 Series Through Terminal Blocks
- Easy retrofits for existing systems
- Separation into functional and wiring levels
- Fast replacement of other functional units



Free-wheeling diode and voltage check

5

Pluggable LED and Neon Indicator Module on Carrier Terminal Block 2.5 mm²
280 Series

Technical Data
Plug width: 5 mm / 0.197 inch

LED module; with red LED; 5 mm wide; I_N 5.6 mA; I_F 25 mA; gray		
	Item No.	Pack. Unit
24 VDC	280-801/281-413	100
48 VDC	280-801/281-414	100

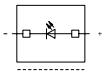
LED module; with red LED; 5 mm wide; I_N 5.6 mA; I_F 25 mA; gray		
24 VAC/DC	280-801/281-415	100
48 VAC/VDC	280-801/281-416	100

Neon indicator module; 5 mm wide; I_N 0.5 mA; gray		
120 VAC/VDC	280-801/281-418	100
230 VAC/VDC	280-801/281-417	100

Carrier terminal blocks, see page 338

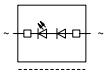
Circuit Diagrams

LED module



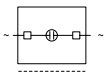
24 VDC	280-801/281-413
48 VDC	280-801/281-414

LED module

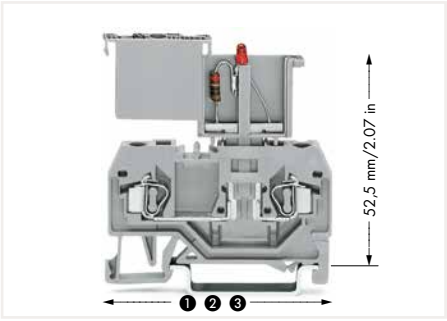


24 VAC/DC	280-801/281-415
48 VAC/VDC	280-801/281-416

Neon indicator module

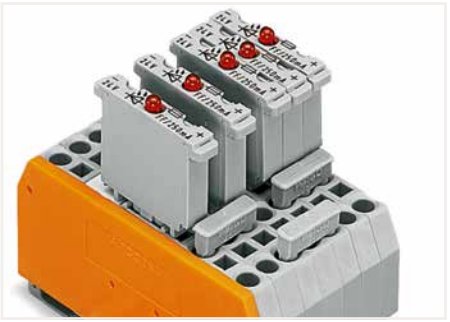


120 VAC/VDC	280-801/281-418
230 VAC/VDC	280-801/281-417

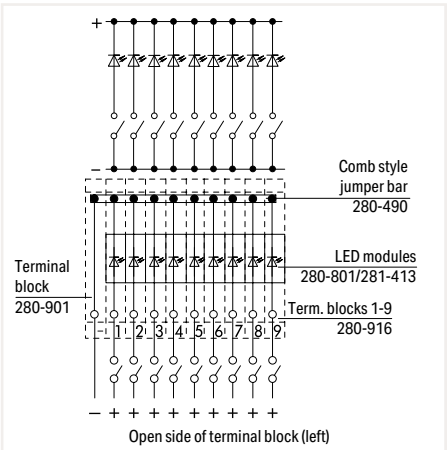


Lengths of carrier terminal blocks with a pluggable diode module:
1 53 mm / 2.09 inch for 280-916
2 64 mm / 2.52 inch for 280-610
3 75 mm / 2.95 inch for 280-816

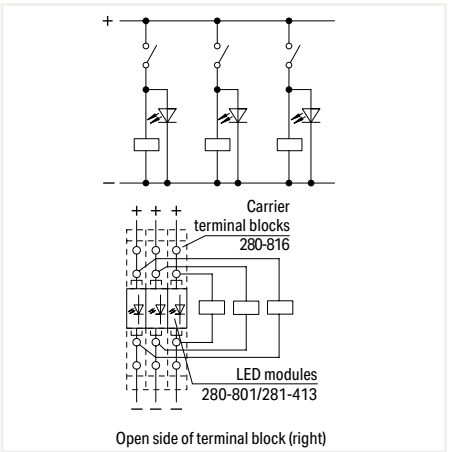
The monitoring of control and operating current circuits with LED modules on rail-mount terminal blocks provides several advantages:
- No additional cost for assembly and wiring
- Separation into functional and wiring levels
- Modules can be replaced quickly by other types of modules
- Polarized switching direction
- Terminal blocks/modules provide high-density wiring in a width of just 5 mm



Carrier terminal blocks with component plugs, alternate comb-style jumper bars, 3-way, comb-style jumper bar



LED gate for collective fault indication – individual display



Voltage control assigned to current circuits

CAGE CLAMP®

Pluggable LED and Neon Indicator Module on Through Terminal Block 2.5 mm²
280 Series

Technical Data
Plug width: 10 mm / 0.394 inch

LED module; with red LED; 10 mm wide; I_N 5.6 mA; I_F 25 mA; gray

	Item No.	Pack. Unit
24 VDC	280-803/281-413	100
48 VDC	280-803/281-414	100

LED module; with red LED; 10 mm wide; I_N 5.6 mA; I_F 25 mA; gray

24 VAC/DC	280-803/281-415	100
48 VAC/VDC	280-803/281-416	100

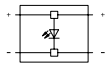
Neon indicator module; 10 mm wide; I_N 0.5 mA; gray

120 VAC/VDC	280-803/281-418	100
230 VAC/VDC	280-803/281-417	100

Through terminal blocks, see page 339

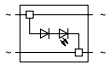
Circuit Diagrams

LED module



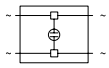
24 VDC	280-803/281-413
48 VDC	280-803/281-414

LED module

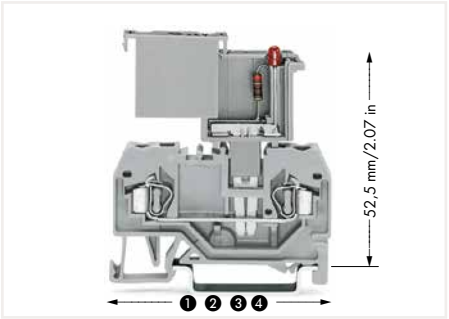


24 VAC/DC	280-803/281-415
48 VAC/VDC	280-803/281-416

Neon indicator module

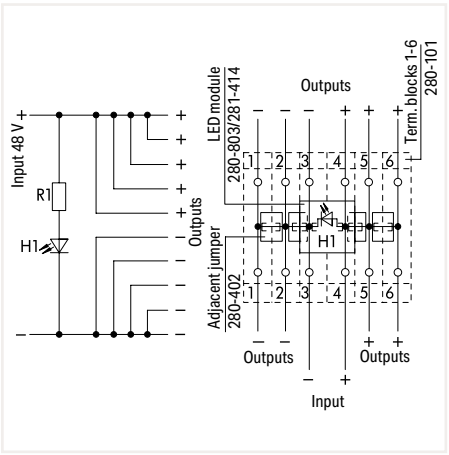


120 VAC/VDC	280-803/281-418
230 VAC/VDC	280-803/281-417

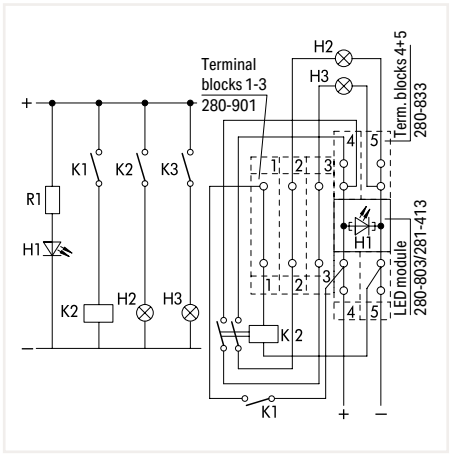


Lengths of through terminal blocks with a pluggable diode module:
1 53 mm / 2.09 inch for 280-901
2 64 mm / 2.52 inch for 280-681
3 75 mm / 2.95 inch for 280-833
4 45.5 mm / 1.67 inch for 280-101

Similar to push-in type jumpers, these LED and neon indicator modules are simply pushed into the current bar's contact slots of two adjacent through terminal blocks, providing the following advantages:
- Compatibility with all 280 Series Through Terminal Blocks
- Easy retrofits for existing systems
- Separation into functional and wiring levels
- Fast replacement of other functional units



Multiple outputs with indicator lamp



Control unit

5

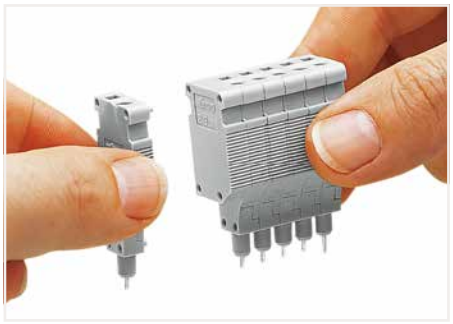
CAGE CLAMP®

L-Type Test Plug Module for Testing 5 mm or 6 mm Wide Rail-Mount Terminal Blocks via Conductor Entry

249 Series

Technical Data	
0.08 … 1.5 mm²	28 … 16 AWG
Test voltage: 630 V	Test current: 6 A
Module width: 5 mm / 0.197 inch	
This test plug is not suitable for Ex e applications.	

Technical Data	
0.08 … 2.5 mm²	28 … 14 AWG
Test voltage: 630 V	Test current: 6 A
Module width: 6 mm / 0.236 inch	
This test plug is not suitable for Ex e applications.	



Snapping test plug and spacer modules together to assemble a multipole test plug module (max. 10 poles).

5

L-type test plug module; with spring-loaded contact pin; center module; snaps together Module width: 5 mm		
Color	Item No.	Pack. Unit
◯ gray	249-141	100 (25)

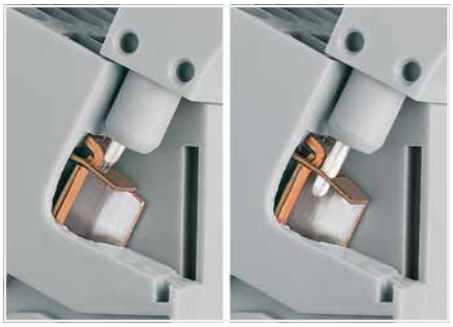
L-type test plug module; with spring-loaded contact pin; center module; snaps together Module width: 6 mm		
Color	Item No.	Pack. Unit
◯ gray	249-144	100 (25)

L-type end test plug module; with rigid contact pin; end module; snaps together Module width: 5 mm		
◯ gray	249-142	100 (25)

L-type end test plug module; with rigid contact pin; end module; snaps together Module width: 6 mm		
◯ gray	249-145	100 (25)

L-type spacer module; snaps together; bridges wired terminal blocks Module width: 5 mm		
◯ gray	249-143	100 (25)

L-type spacer module; snaps together; bridges wired terminal blocks Module width: 6 mm		
◯ gray	249-146	100 (25)



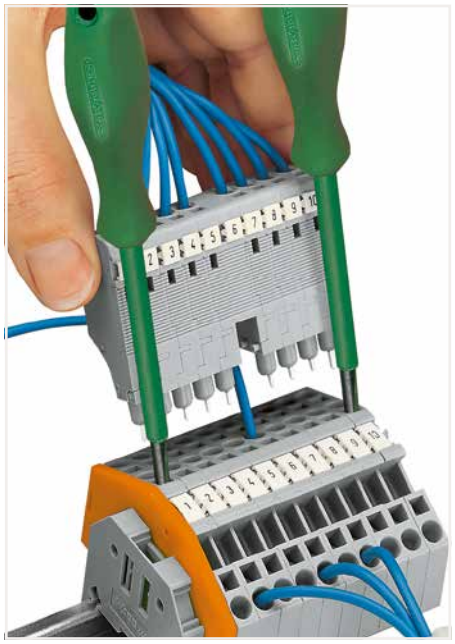
A = Center module with a spring-loaded contact pin
B = End module with a rigid contact pin

Accessories; for L-type test plug modules

Appropriate marking systems: WMB/WMB Inline/Mini-WSB/Mini-WSB Inline

WMB marking card; white; 10 strips with 10 markers/card; stretchable 5 … 5.2 mm			
	plain	793-5501	5

Mini-WSB marking card; 10 strips with 10 markers/card; 5 mm wide markers			
	plain	248-501	5



For easily testing terminal block assemblies, WAGO's L-type test plug modules with CAGE CLAMP® may be used on unwired terminal blocks. For testing, the module is assembled with spring-loaded pins in the center positions and rigid pin modules at the ends. The terminal blocks corresponding to the end position modules are opened using operating tools (as shown) – these rigid pins are then held in place by the CAGE CLAMP®.
The intermediate pins are spring-loaded and make contact with the current bars of the unwired clamping units. Clamping units needing to remain wired may be skipped by assembling a spacer in the test plug module.

Notice:
Mating direction must be observed (see picture).

CAGE CLAMP® connection
0.08 … 1.5 mm²; 5 mm wide module
0.08 … 2.5 mm²; 6 mm wide module

Power must be switched off when installing the test plug adapter. The safety guidelines for working on live installations must be observed.

CAGE CLAMP®

B-Type Test Plug Module for Testing 5 mm or 6 mm Wide Rail-Mount Terminal Blocks via Jumper Contact Slot in Current Bar

249 Series

Technical Data	
0.08 … 1.5 mm²	28 … 16 AWG
Test voltage: 630 V	Test current: 10 A
Module width: 5 mm / 0.197 inch	
This test plug is not suitable for Ex e applications.	

B-type test plug module; snaps together Module width: 5 mm		
Color	Item No.	Pack. Unit
gray	249-106	100 (25)

B-type spacer module; snaps together; bridges commoned terminal blocks, Module width: 5 mm		
gray	249-107	100 (25)

Technical Data	
0.08 … 2.5 mm²	28 … 14 AWG
Test voltage: 630 V	Test current: 10 A
Module width: 6 mm / 0.236 inch	
This test plug is not suitable for Ex e applications.	

B-type test plug module; snaps together Module width: 6 mm		
Color	Item No.	Pack. Unit
gray	249-147	100 (25)

B-type spacer module; snaps together; bridges commoned terminal blocks, Module width: 6 mm		
gray	249-148	100 (25)

Accessories; for B-type test plug modules

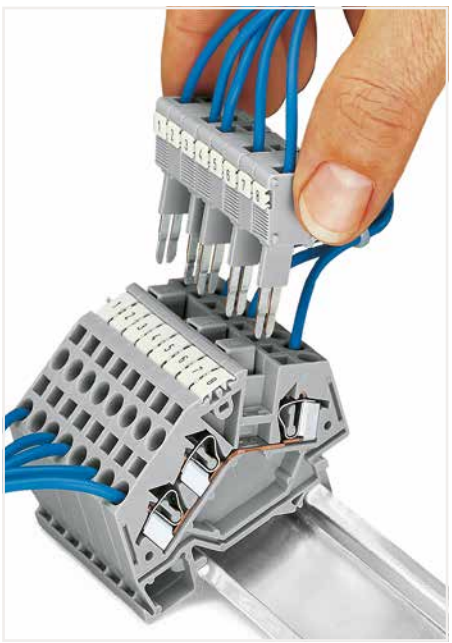
Appropriate marking systems: WMB/WMB Inline/Mini-WSB/Mini-WSB Inline

WMB Inline, plain; 1,500 WMB markers (5 mm)/reel; 5 … 5.2 mm stretchable			
	white	2009-115	1

Mini-WSB Inline; plain; 1,700 Mini-WSB markers (5 mm wide) per reel; stretchable 5 … 5.2 mm			
	white	2009-145	1

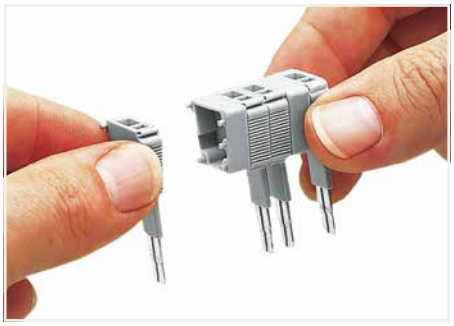
WMB marking card; white; 10 strips with 10 markers/card; stretchable 5 … 5.2 mm			
	plain	793-5501	5

Mini-WSB marking card; 10 strips with 10 markers/card; 5 mm wide markers			
	plain	248-501	5

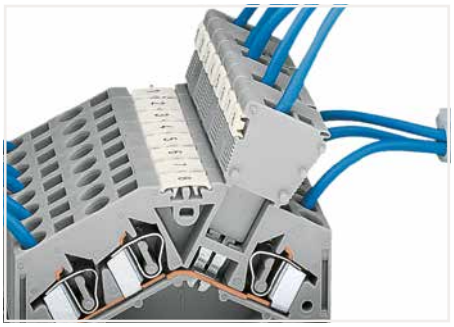


For testing individual circuits, offers a single-pole test plug accessory with CAGE CLAMP® up to 2.5 mm² (14 AWG) for direct contact with the current bar of a terminal block, or 1-pole test plug adapters for 4 mm Ø test plugs.

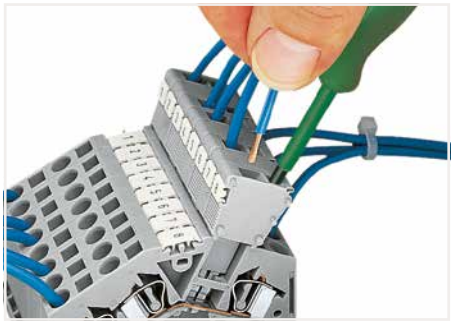
For serial testing on terminal block assemblies, has developed special multipole (max. 10-pole) modular test plug modules. WAGO's B-type test plug modules with CAGE CLAMP® connection are ideal for testing completely wired terminal blocks – even when using adjacent jumpers. For this testing type, the module assembly exactly matches the terminal block assembly. The test plug modules make direct contact to the jumper contact slots of the terminal blocks to be tested.



Snapping test plug and spacer modules together to assemble a multipole test plug module (max. 10 poles).



B-type test plugs are directly plugged into the jumper contact slot of the current bar.



CAGE CLAMP® connection
0.08 … 1.5 mm²; 5 mm wide module
0.08 … 2.5 mm²; 6 mm wide module

Power must be switched off when installing the test plug adapter. The safety guidelines for working on live installations must be observed.

5

CAGE CLAMP®

Test Plug Module for Testing 5 mm or 6 mm Wide Rail-Mount Terminal Blocks via Jumper Contact Slot in Current Bar

Technical Data	
Test voltage: 400 V	Test current: 6 A
Module width: 5 mm / 0.197 inch	
This test plug is not suitable for Ex e applications.	

Test plug module; snaps together Module width: 5 mm		
Color	Item No.	Pack. Unit
gray	280-418	100 (25)

Spacer module; snaps together; bridges terminal blocks Module width: 5 mm		
gray	280-419	100 (25)

Technical Data	
Test voltage: 400 V	Test current: 6 A
Module width: 6 mm / 0.236 inch	
This test plug is not suitable for Ex e applications.	

Test plug module; snaps together Module width: 6 mm		
Color	Item No.	Pack. Unit
gray	281-418	100 (25)

Spacer module; snaps together; bridges terminal blocks Module width: 6 mm		
gray	281-419	100 (25)

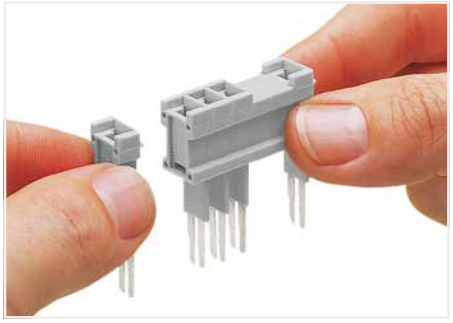
Accessories; for test plug modules

Test plug; with 500 mm cable; 2 mm Ø; max. 42 V

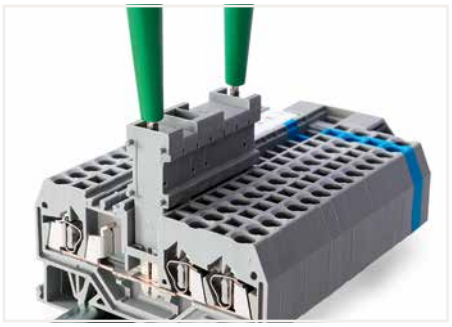
red	210-136	50

Test plug; with 500 mm cable; 2.3 mm Ø; max. 42 V

yellow	210-137	50



Snapping test plug and spacer modules together to assemble a multipole test plug module.



The test plug modules are directly plugged into the jumper contact slot of the current bar.

5

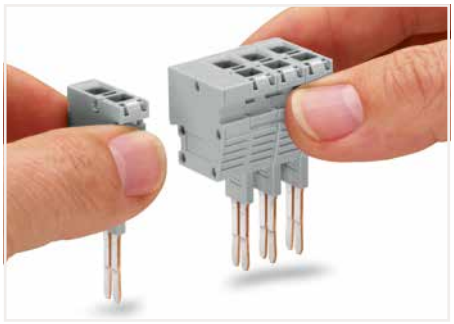
CAGE CLAMP®

B-Type Test Plug Module for Testing 8 mm or 10 mm Wide Rail-Mount Terminal Blocks via Jumper Contact Slot in Current Bar

709 Series

Technical Data	
0.2 … 6 mm²	24 … 10 AWG
Test voltage: 800 V	Test current: 32 A
Module width: 8 mm / 0.315 inch	
This test plug is not suitable for Ex e applications.	

Technical Data
Module width: 2 mm / 0.079 inch
This intermediate plate is not suitable for Ex e applications.



Snapping test plug and spacer modules together to assemble a multi-pole test plug module (max. 10 poles) for 8 mm terminal block width.

B-type test plug module; snaps together
Module width: 8 mm

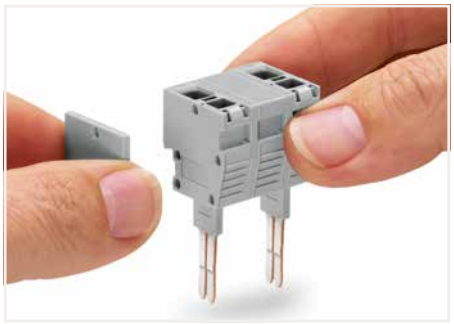
Color	Item No.	Pack. Unit
◯ gray	709-310	100 (25)

B-type spacer module; snaps together; bridges commoned terminal blocks,
Module width: 8 mm

◯ gray	709-311	100 (25)

B-type spacer plate; snaps together; snaps on B-type test plug modules (709-310) and B-type spacer modules (709-311)
Module width: 2 mm

Color	Item No.	Pack. Unit
◯ gray	709-312	100 (25)



Snapping test plug and spacer modules (each with a spacer plate) together to assemble a multi-pole test plug module (max. 10 poles) for 10 mm terminal block width.

Accessories; item-specific

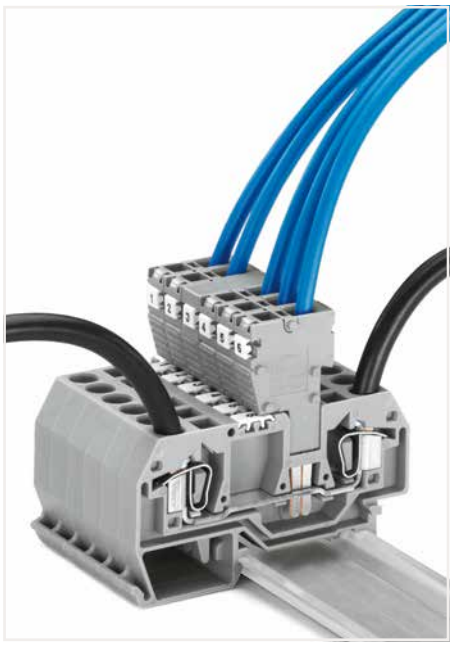
Strain relief plate; gray; for 8 mm wide terminal blocks

2-pole	709-322	100 (25)
4-pole	709-324	100 (25)
6-pole	709-326	100 (25)

Accessories; item-specific

Strain relief plate; gray; for 10 mm wide terminal blocks

2-pole	709-332	100 (25)
4-pole	709-334	100 (25)
6-pole	709-336	100 (25)



For testing individual circuits, offers a single-pole test plug accessory with CAGE CLAMP® up to 2.5 mm² (14 AWG) for direct contact with the current bar of a terminal block, or 1-pole test plug adapters for 4 mm Ø test plugs.

For serial testing on terminal block assemblies, has developed special multipole (max. 10-pole) modular test plug modules. WAGO's B-type test plug modules with CAGE CLAMP® connection are ideal for testing completely wired terminal blocks – even when using adjacent jumpers. For this testing type, the module assembly exactly matches the terminal block assembly. The test plug modules make direct contact to the jumper contact slots of the terminal blocks to be tested.

Power must be switched off when installing the test plug adapter. The safety guidelines for working on live installations must be observed.

The test plug modules are directly plugged into the jumper contact slot of the current bar (picture shows 284 Series).

Conductor Insulation Stop for Conductors 0.08 … 1.5 mm² / 28 … 16 AWG

Technical Data
Terminal block width: 4 mm / 0.157 inch

Insulation stop; 0.08 … 0.2 mm² "s" (0.14 mm² "f-st"); 5 pcs/strip		
Color	Item No.	Pack. Unit
○ white	**279-470**	200 (25)

Insulation stop; 0.25 mm²; 5 pcs/strip		
● dark gray	**279-471**	200 (25)

Technical Data
Terminal block width: 5 mm / 0.197 inch

Insulation stop; 0.08 … 0.2 mm² "s" (0.14 mm² "f-st"); 5 pcs/strip		
Color	Item No.	Pack. Unit
○ white	**280-470**	200 (25)

Insulation stop; 0.25 … 0.5 mm²; 5 pcs/strip		
○ light gray	**280-471**	200 (25)

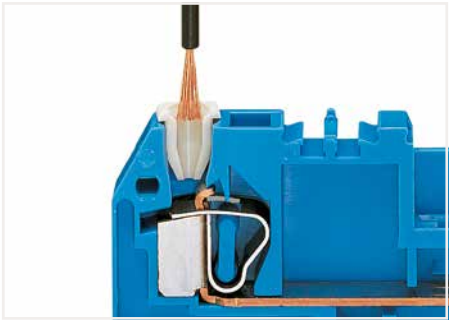
Insulation stop; 0.75 … 1 mm²; 5 pcs/strip		
● dark gray	**280-472**	200 (25)

Technical Data
Terminal block width: 6 mm / 0.236 inch

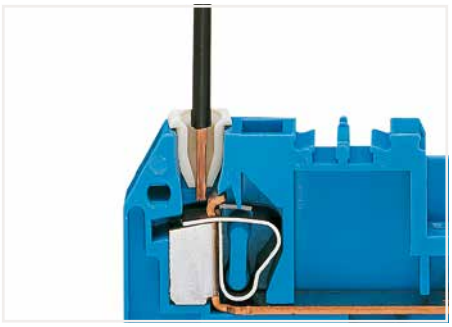
Insulation stop; 0.08 … 0.2 mm² "s" (0.14 mm² "f-st"); 5 pcs/strip		
Color	Item No.	Pack. Unit
○ white	**281-470**	200 (25)

Insulation stop; 0.25 … 0.5 mm²; 5 pcs/strip		
○ light gray	**281-471**	200 (25)

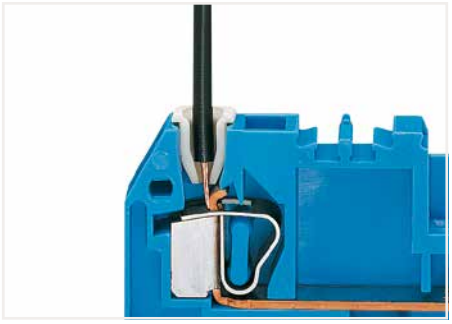
Insulation stop; 0.75 … 1.5 mm²; 5 pcs/strip		
● dark gray	**281-472**	200 (25)



Insert stripped, untwisted conductor into insulation stop.



The conductor is bundled.



The conductor insulation is prevented from being pushed into the clamping unit by the positive stop.

The problem: Wiring programmable logic controllers and microprocessor-operated control circuits often relies on very small, fine-stranded conductors. These conductors are highly flexible and deform when pushed against the conductor stop in terminal blocks. As a result, the conductor insulation – not the copper conductor – may be clamped, causing intermittent contact or no contact at all. Common to all terminal block types currently offered, this problem creates unnecessary downtime for troubleshooting.

The solution: An insulation stop for rail-mount terminal blocks. Insulation stops automatically bundle the cores of fine-stranded conductors when inserted into the clamping unit, preventing splaying. This also limits the conductor entry to a defined cross sectional area – ensuring the actual conductor, not the insulation, will enter the clamping unit

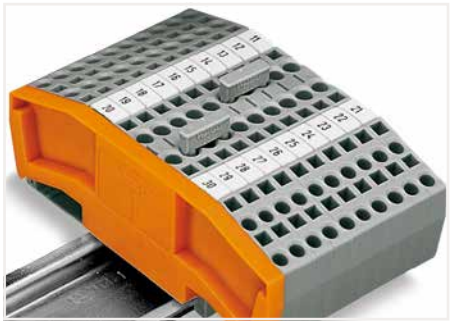
Insulation stops are available as dividable 5-pole strips for 279, 280/780/870/880 and 281/781 Series Rail-Mount Terminal Blocks.
Insulation stop usage will not affect the conductor strip lengths for the aforementioned rail-mount terminal blocks.

Comb-Style Jumper Bar and Alternate Comb-Style Jumper Bar Operating Tool

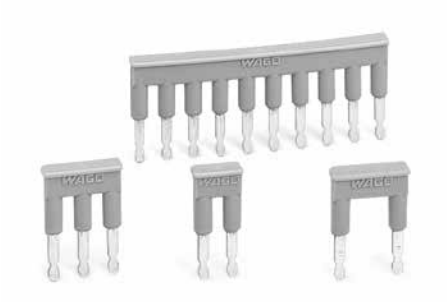
Comb-style jumper bar; insulated; $I_N = I_N$ of terminal block; for 279 Series		
	Item No.	Pack. Unit
2-way	279-482	200 (25)
3-way	279-483	200 (25)
10-way	279-490	50 (25)

Alternate comb-style jumper bar; insulated; $I_N = I_N$ of terminal block		
2-way	279-492	200 (25)

Operating tool; insulated		
2-way	279-432	1
3-way	279-433	1
10-way	279-440	1



Commoning using comb-style jumper bars.
Push comb-style jumper bars down until fully inserted.



Comb-style jumper bar; insulated; $I_N = I_N$ of terminal block; for 280/769/780/880 Series		
	Item No.	Pack. Unit
2-way	280-482	200 (25)
3-way	280-483	200 (25)
10-way	280-490	50 (25)

Alternate comb-style jumper bar; insulated; $I_N = I_N$ of terminal block		
2-way	280-492	200 (25)

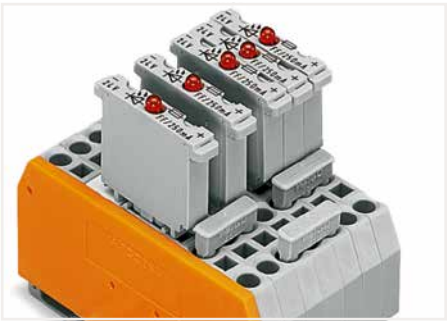
Operating tool; insulated		
2-way	280-432	1
3-way	280-433	1
10-way	280-440	1

4-conductor through terminal blocks, angled type – formation of groups with 3-way, comb-style jumper bars

Comb-style jumper bar; insulated; $I_N = I_N$ of terminal block; for 281/781 Series		
	Item No.	Pack. Unit
2-way	281-482	100 (25)
3-way	281-483	100 (25)
5-way	281-485	100 (25)
10-way	281-490	50 (25)

Alternate comb-style jumper bar; insulated; $I_N = I_N$ of terminal block		
2-way	281-492	100 (25)

Operating tool; insulated		
2-way	280-432	1
3-way	280-433	1
5-way	281-440	1



Carrier terminal blocks with component plugs, alternate comb-style jumper bars, 3-way, comb-style jumper bar

5

Staggered Jumper

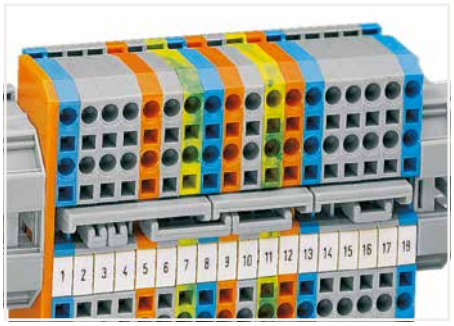
Technical Data
400 V/6 kV/3

❶ Suitable for Ex e II applications
Rated voltage (max.): 275 V
23 A, for 2-conductor terminal blocks
22 A, for 3-conductor terminal blocks
20 A, for 4-conductor terminal blocks
(see Section 14)

❷ Suitable for Ex e II applications
Rated voltage (max.): 275 V; 26 A
(see Section 14)

Staggered jumper; insulated; 5 mm wide; I_N 24 A		
	Item No.	Pack. Unit
1 to 2	780-452 ❶	100 (25)
1 to 3	780-453 ❶	100 (25)
1 to 4	780-454 ❶	100 (25)
1 to 5	780-455 ❶	50 (25)
1 to 4	780-456 ❶	50 (25)
1 to 7	780-457 ❶	50 (25)
1 to 4	780-458 ❶	50 (25)

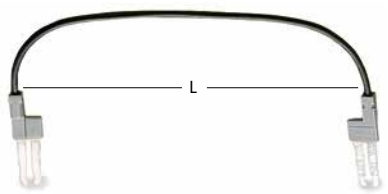
Staggered jumper; insulated; 6 mm wide; I_N 32 A		
1 to 2	781-452 ❷	100 (25)
1 to 3	781-453 ❷	100 (25)
1 to 4	781-454 ❷	100 (25)
1 to 5	781-455 ❷	50 (25)
1 to 6	781-456 ❷	50 (25)



Staggered jumpers for sophisticated circuit requirements – push jumpers down until fully inserted.

Push-In Type Wire Jumper

Technical Data
800 V/8 kV/3
I_N 9 A



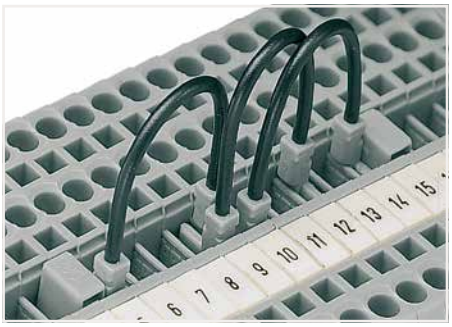
Terminal Blocks Series	Wire Jumpers Item No.	"n"
279 (1.5 mm²/16 AWG)	249-125 249-126 249-127	13 25 60
280, 775, 780 (2.5 mm²/14 AWG) 769, 880 (4 mm²/12 AWG)	249-125 249-126 249-127	10 20 48
281, 781, 776, 777 (4 mm²/12 AWG)	249-125 249-126 249-127	9 17 40

"n" = number of 279, 280/769/780/880 and 281/781 Series Rail-Mount Terminal Blocks that can be skipped with a wire jumper.

Push-in type wire jumper; insulated; 0.75 mm² conductor cross section		
	Item No.	Pack. Unit
L = 60 mm	**249-125**	10

Push-in type wire jumper; insulated; 0.75 mm² conductor cross section		
L = 110 mm	**249-126**	10

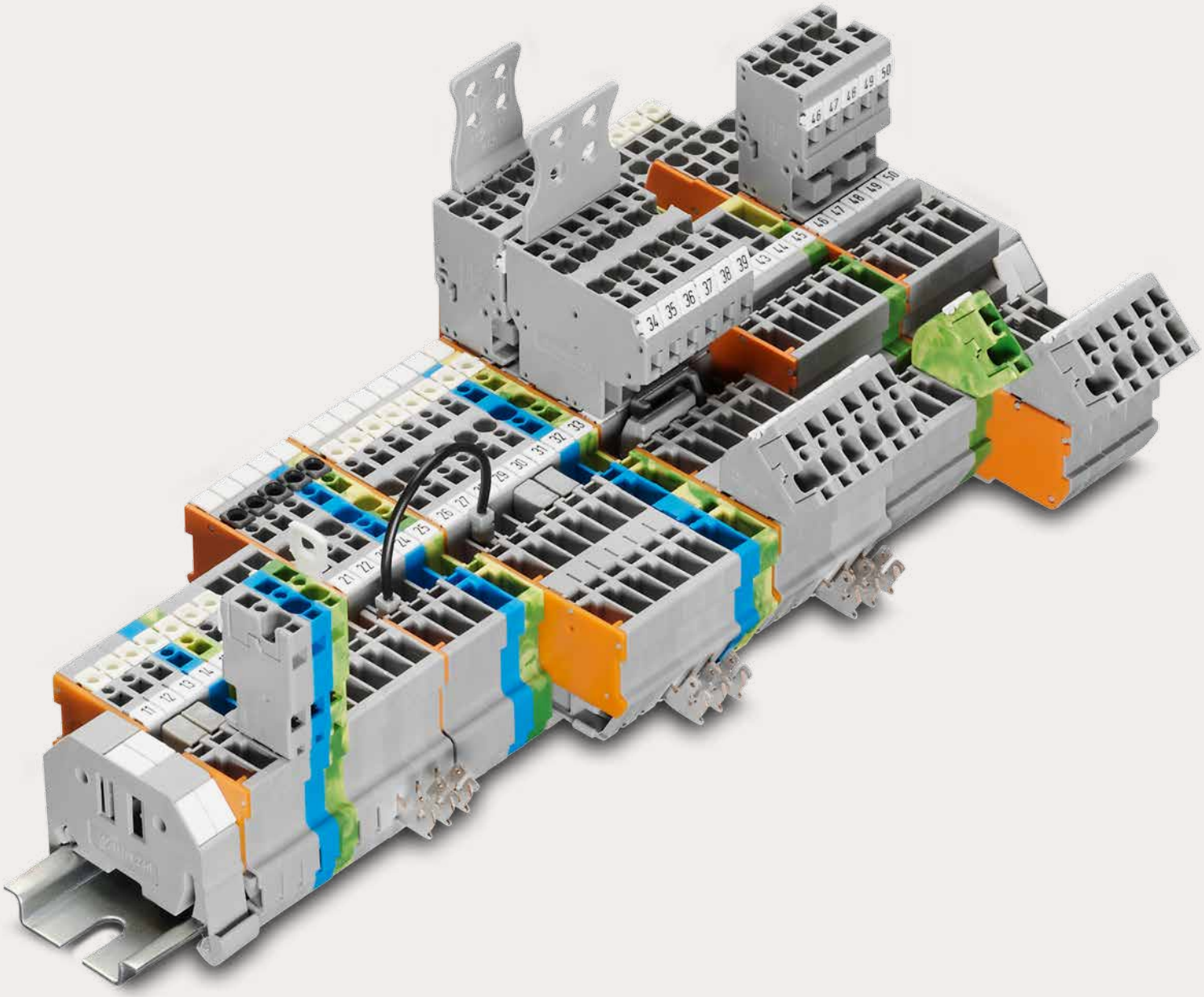
Push-in type wire jumper; insulated; 0.75 mm² conductor cross section		
L = 250 mm	**249-127**	10



The 280/775/780 and 281/776/777/781 Series Terminal Blocks accept two wire jumpers, allowing the use of commoning chains. Furthermore, the 280/769/775/780/880 and 281/776/777/781 Series allow both wire jumper and adjacent jumper to be simultaneously plugged into a same terminal block.

Push-in type wire jumper:
When installing machines or control systems, it is often necessary to make an additional connection between two terminal blocks that are not next to each other on the rail. In such cases, WAGO's touch-proof, push-in type wire jumpers are the ideal solution.

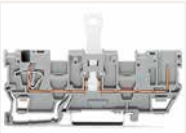
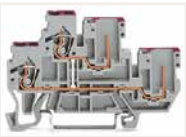
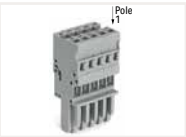
This jumper is compatible with the following rail-mount terminal blocks:
- 279 Series (1.5 mm²/16 AWG),
- 280/775/780 Series (2.5 mm²/14 AWG)
- 281/769/776/777/781 and 880 Series (4 mm²/12 AWG)
They are available in three conductor lengths (60, 110 and 250 mm), allowing up to 60 terminal blocks to be commoned depending on their width (see table on the right).



WAGO Rail-Mount Terminal Blocks with a Pluggable Connector X-COM®-SYSTEM

CAGE CLAMP®

WAGO Rail-Mount Terminal Blocks with a Pluggable Connector X-COM®-SYSTEM
Front-Entry Wiring

			Page
	Carrier Terminal Blocks 0.08 … 4 mm² (28 … 12 AWG)	769 Series	358
	Carrier Terminal Blocks; with Three Jumper Positions 0.08 … 4 mm² (28 … 12 AWG)	769 Series	368
	**Disconnect Carrier Terminal Blocks; with Two Jumper Positions** 0.08 … 4 mm² (28 … 12 AWG)	769 Series	370
	Diode and LED Carrier Terminal Blocks 0.08 … 4 mm² (28 … 12 AWG)	769 Series	372
	Carrier Terminal Blocks for a Pluggable Module 0.08 … 4 mm² (28 … 12 AWG)	769 Series	380
	**Double-Deck Carrier Terminal Blocks** 0.08 … 2.5 (4 “f-st”) mm² (28 … 12 AWG)	870 Series	388
	Male Connectors; with CAGE CLAMP® Connection 0.08 … 4 mm² (28 … 12 AWG)	769 Series	398
	Male Headers; with Solder Pins 0.08 … 4 mm² (28 … 12 AWG)	769 Series	402
	**Female Plugs; with/without Lateral Locking Levers** 0.08 … 4 mm² (28 … 12 AWG)	769 Series	408
	Female Plugs for Self-Assembly 0.08 … 4 mm² (28 … 12 AWG)	769 Series	412
	Pre-Assembled Female Plugs 0.08 … 4 mm² (28 … 12 AWG)	769 Series	414
	Strain Relief Housings	769 Series	416

6

COM-bining Connectors and Rail-Mount Terminal Blocks X-COM®-SYSTEM

The X-COM-SYSTEM® is the perfect solution for switchgear and control applications.

X-COM® is designed for a **rated current up to 16/32 A at U_N 500 V and 4 mm² (12 AWG) rated cross section (up to 600 V, 10 A, and 12 AWG UL).** This offers an alternative to heavy-duty rectangular and circular connectors used in power wiring applications where electrical compliance is more important than a high degree of protection.
X-COM® conveniently enables the use of pre-assembled connector systems and offers the following advantages:

- During manufacturing: Pre-wired subassemblies can be tested before installation.
- During assembly: Pre-assembled pluggable cable harnesses help solve time and space issues on site. Connector systems with protection against mismating can be handled by installers of all skill levels.
- During maintenance: Subassemblies can be replaced quickly and without errors.

The X-COM®-SYSTEM consists of rail-mount carrier terminal blocks, male connectors and female plugs with different mounting systems, as well as male headers with solder pins. Pin spacing is generally 5 mm (0.197 inch).

Protection Against Mismating and Accidental Contact

The WAGO-X-COM®-SYSTEM is **fully protected against accidental contact – even when plugs are disconnected**. This dramatically simplifies the planning of power distribution.
Furthermore, the whole system is **100% protected against mismating**. Its coding, without the loss of any poles, prevents mismating of male connectors and female plugs having the same number of poles.

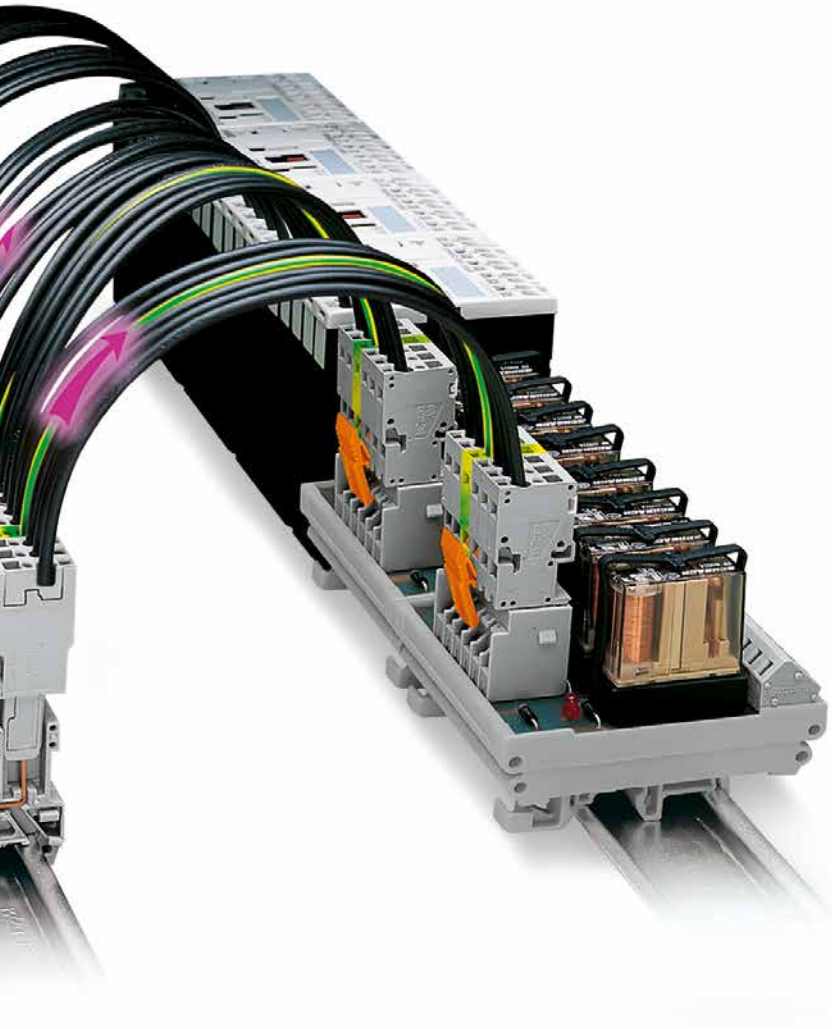
Carrier Terminal Blocks

Carrier terminal blocks are available as through terminal blocks, double-deck terminal blocks and ground conductor terminal blocks with automatic contact to the DIN-rail. Carrier terminal blocks with specialty functions are available in disconnect, diode and LED versions. Carrier terminal blocks equipped with an additional socket can accommodate a wide range of pluggable electronic modules (e.g., relays, optocouplers, signal conditioners).
Depending on the type of terminal block, the carrier terminal blocks are equipped with one to three jumper positions for commoning signals via insulated push-in type jumpers.

Applications

X-COM®-SYSTEM connects to:

- Frequency converters
- Thyristor actuators
- Soft start motor controllers
- Motors
- Phase filters
- Power subassemblies
- Power supply units
- Uninterruptible power supply (UPS)
- “Panel-to-door” wiring
- Pluggable high-current, feed-through connections
- Flying leads



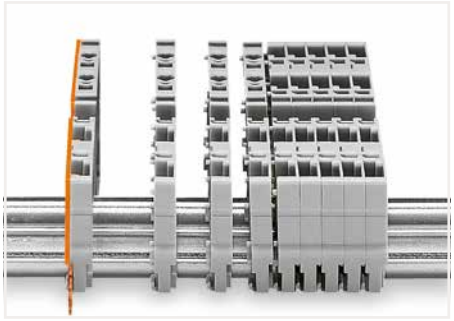
Female Plugs
The mating half of the carrier terminal blocks consists of modular female plugs (1- to 15-pole, 1-/2-conductor, straight/angled). Angled female plugs combined with double-deck terminal blocks offer high-density wiring and reduce overall terminal block height. A jumper slot simplifies potential distribution.
This makes commoning supply lines particularly easy as the power supply of downstream subassemblies is maintained even after female plugs have been removed.

1-Pole Female Plugs
Special 1-pole female plugs can carry the full rated current of the terminal blocks for many applications:
- as test plug adapters
- as connectors for motor lead tests
- for all types of patchboard applications
- for the creation of multipole prototypes
- for phase selection of 230 V loads in a three-phase network without interfering with the wiring
- for single-pole power supply in commercial or recreational vehicles. The grounding of all electrical components is connected through the chassis.

Male Connectors
Male connectors are available with snap-in mounting feet for panel mounting, with mounting flanges for feedthrough applications or without mounting elements for flying leads. Strain relief plates are available as accessories.
Subassemblies on printed circuit boards can be integrated into the system wiring using male headers with solder pins. As a result, parts can be exchanged quickly without wiring errors.

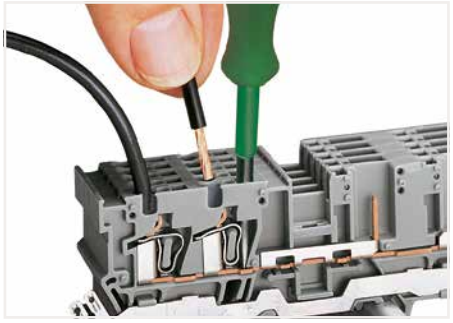
Degree of Protection
Mated: IP20
Unmated: IP20
Temperature range:
–35 … +100 °C

Carrier Terminal Blocks and Female Plugs X-COM®-SYSTEM
769 Series
Description and Installation



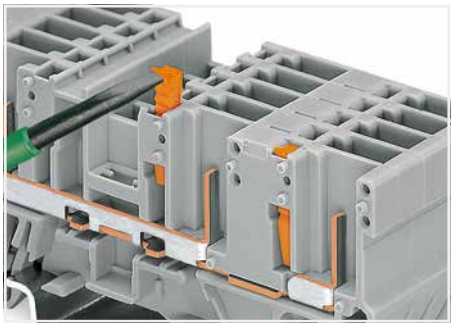
Snap individual carrier terminal blocks onto the DIN-rail and slide together.

Open the assembly by laterally sliding a block via operating tool and remove terminal block via release lever.

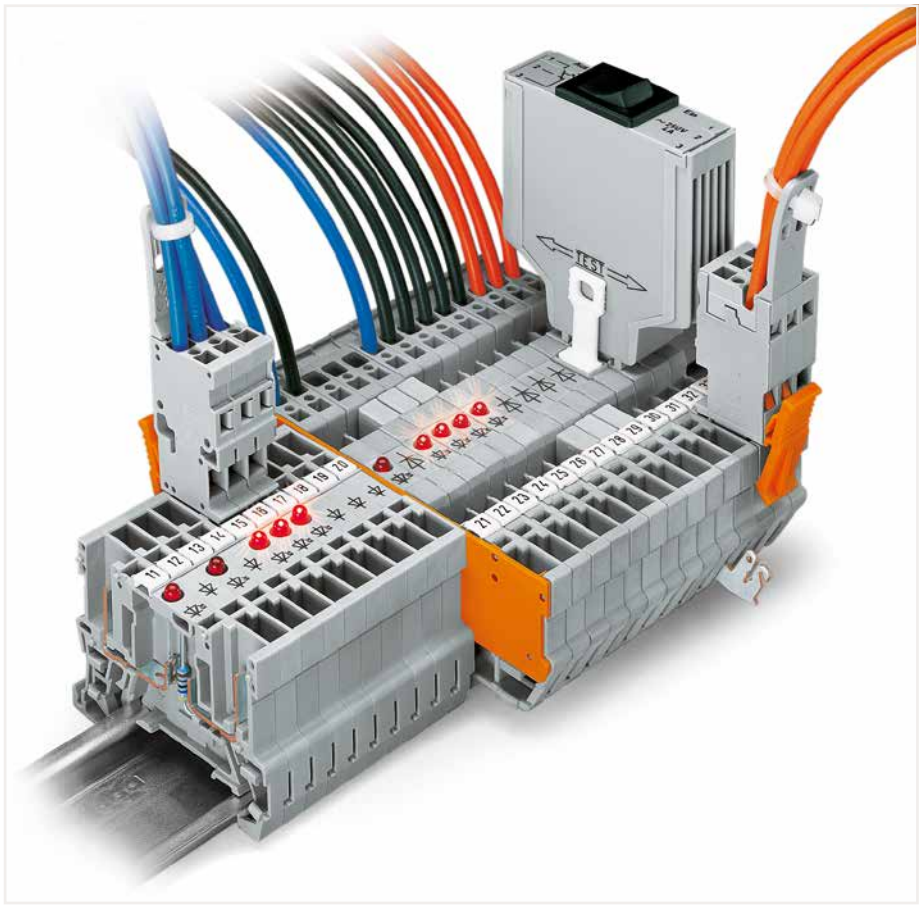


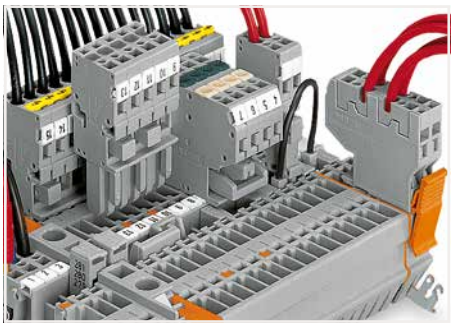
Carrier terminal block: Insert/remove conductor via operating tool (3.5 x 0.5 mm blade).

Coding a female plug by removing coding finger(s) via cutting tool. Do not remove the first and last coding fingers or use an additional locking lever.

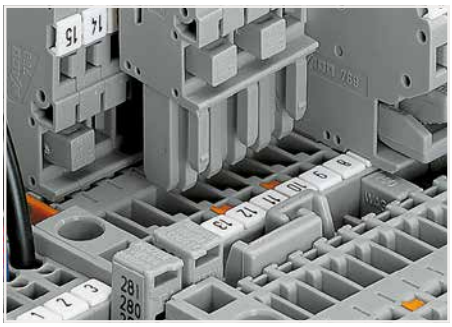


Snap coding pin in proper direction on carrier terminal block.
Shown: Coding pin removal from carrier terminal block.

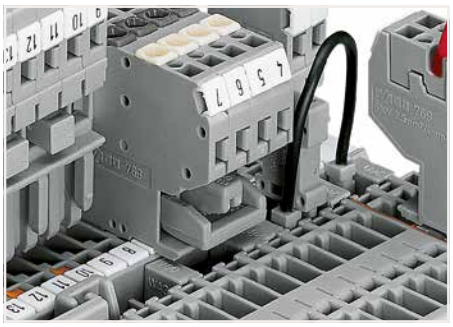




Commoning with adjacent or staggered jumpers – push jumpers down until fully inserted.



Commoning carrier terminal blocks via staggered jumpers.



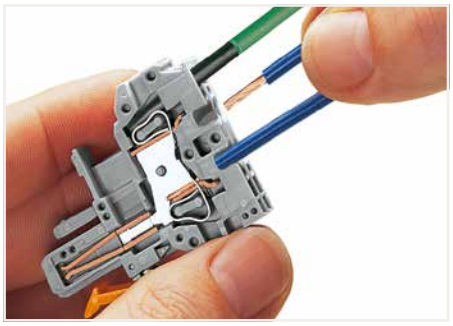
Commoning a 2-conductor female plug via staggered jumper and carrier terminal blocks via adjacent jumpers.

CAGE CLAMP® terminates the following copper conductors:
solid

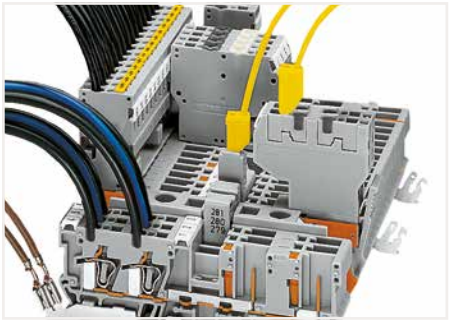
stranded

fine-stranded, also with tinned single strands

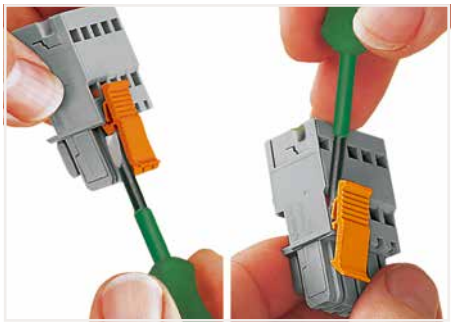
For aluminum conductors, see notes in Section 14. With ferruled conductors, it is necessary to use a terminal block one size smaller than the conductor's nominal cross section.



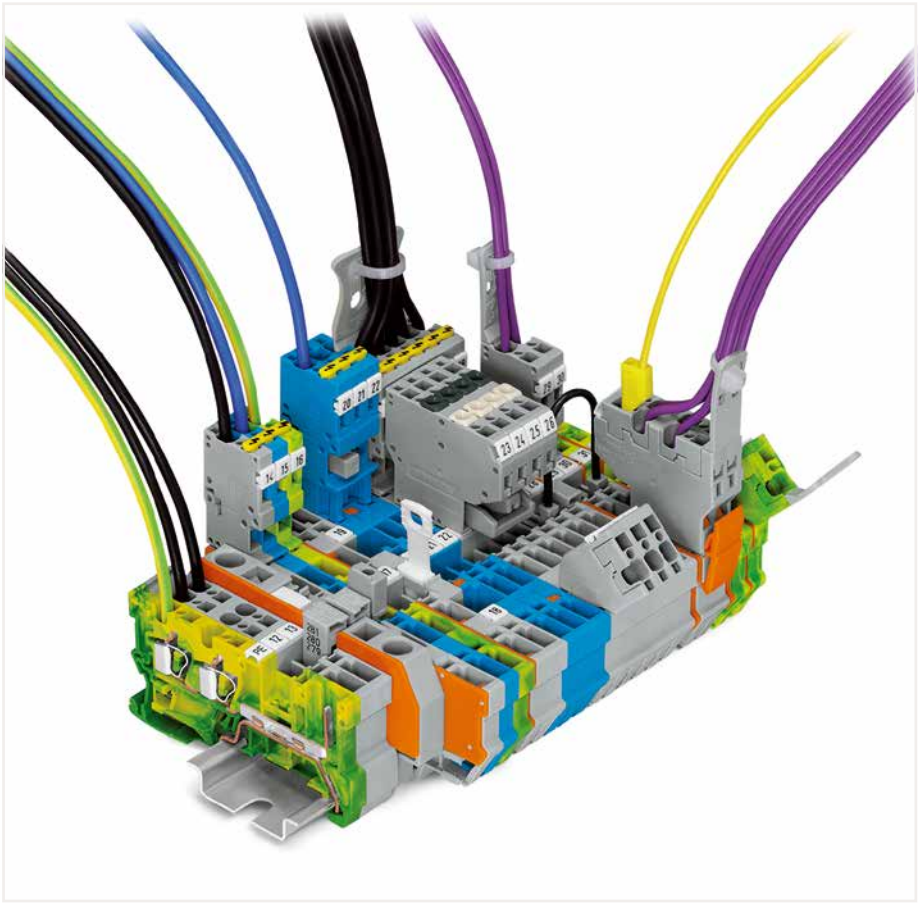
CAGE CLAMP® connection
Female plug: Inserting/removing a conductor via operating tool.
Operation 90° to conductor is also possible.
With ferruled conductors, it is necessary to use a terminal block one size smaller than the conductor's nominal cross section.



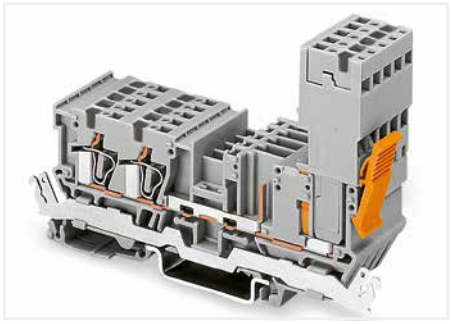
Testing via 2 or 2.3 mm Ø test plugs.



Locking/releasing a lever.

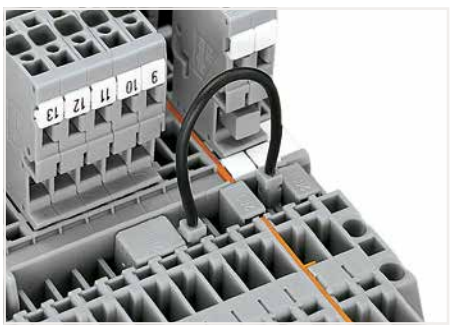


Note: Female plugs used according to the regulations must not be connected/disconnected when live or under load.

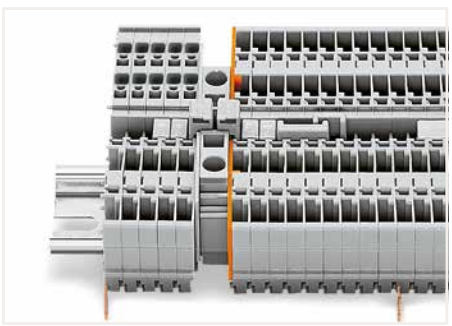


Female plug secured with locking lever on the terminal block side.

Removing a female plug via conductor bundle provided with strain relief plate.



Commoning carrier terminal blocks via push-in type wire jumpers or adjacent jumpers – even over an intermediate plate.



Commoning "supply terminal blocks" (up to 10 mm²/8 AWG) with carrier terminal blocks via step-down jumpers.

Commoning a 1-conductor female plug via miniature adjacent jumpers.

fine-stranded, tip-bonded

fine-stranded, with ferrule (gastight crimped)

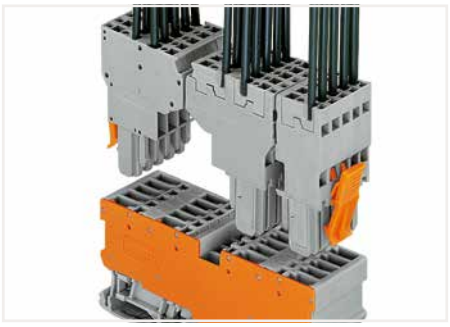
fine-stranded, with pin terminal (gastight crimped)

Carrier Terminal Blocks, Female Plugs and Male Connectors X-COM®-SYSTEM
769 Series
Product Range Overview

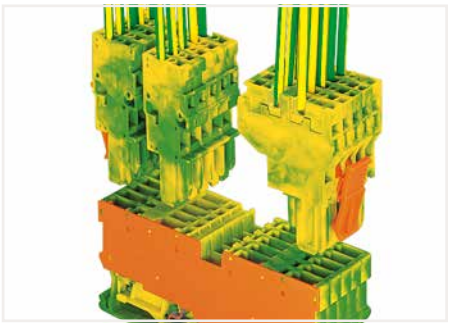
1-conductor/1-pin carrier terminal block
1-connector female plug; straight*
*1-conductor angled female plug is also possible!

1-conductor/1-pin ground carrier terminal block
2-conductor female plug; green-yellow

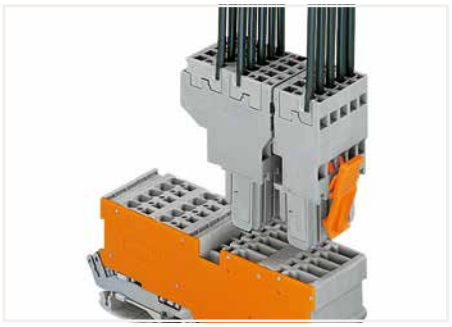
2-pin carrier terminal block; with shield contact
2-conductor female plug
1-connector female plug; straight*
*1-conductor angled female plug is also possible!



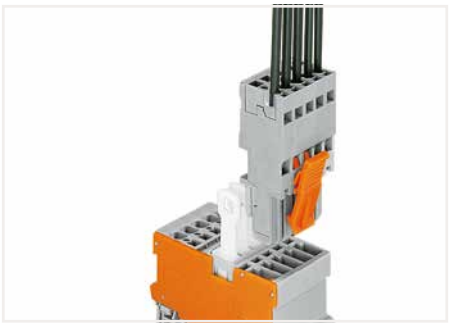
4-pin carrier terminal block
2-conductor female plug
1-connector female plug; straight



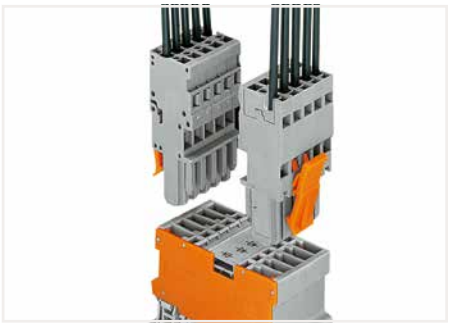
4-pin ground carrier terminal block
1-connector female plug; straight
2-conductor female plug



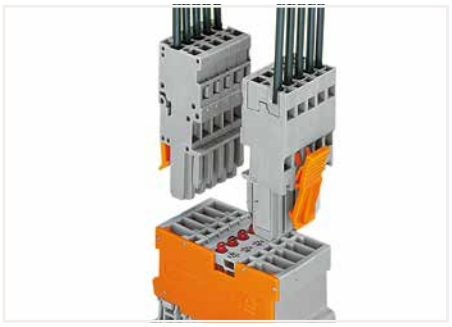
2-conductor/2-pin carrier terminal block; with shield contact
2-conductor female plug
1-connector female plug; straight



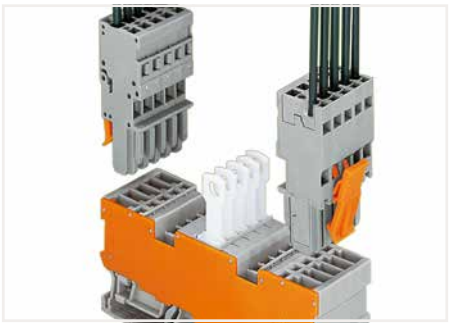
1-conductor/1-pin disconnect carrier terminal block
1-connector female plug; straight*
*1-conductor angled female plug is also possible!



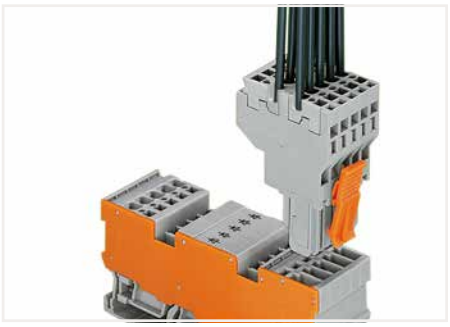
2-pin diode carrier block
1-connector female plug; straight*
*1-conductor angled female plug is also possible!



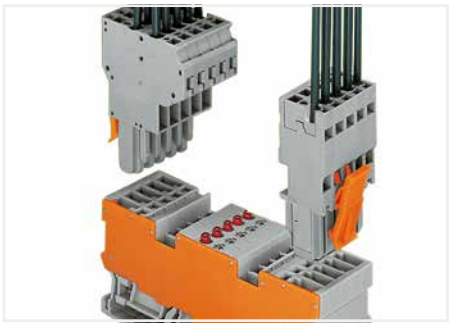
2-pin LED carrier block
1-connector female plug; straight*
*1-conductor angled female plug is also possible!



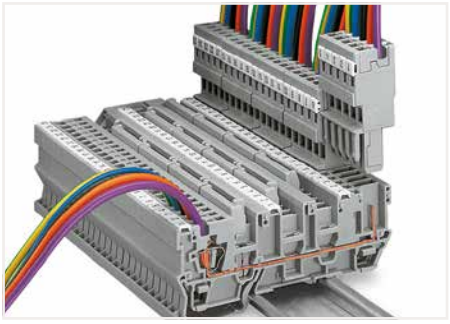
2-pin disconnect carrier terminal block; with two jumper positions
1-connector female plug; straight*
*1-conductor angled female plug is also possible!



1-conductor/1-pin diode carrier terminal block; with two jumper positions
2-conductor female plug

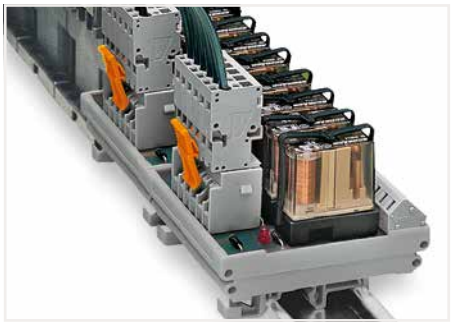


2-pin LED carrier terminal block; with two jumper positions
2-conductor female plug
1-connector female plug; straight

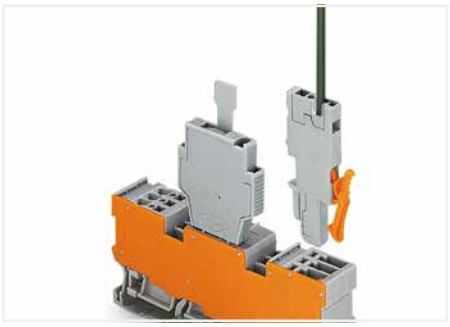


1-conductor/1-pin carrier terminal block; with three jumper positions
1-connector female plug; straight*
*1-conductor angled female plug is also possible!

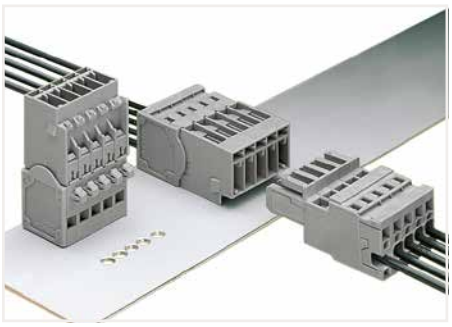
Male connector; with CAGE CLAMP® connection
1-connector female plug; straight



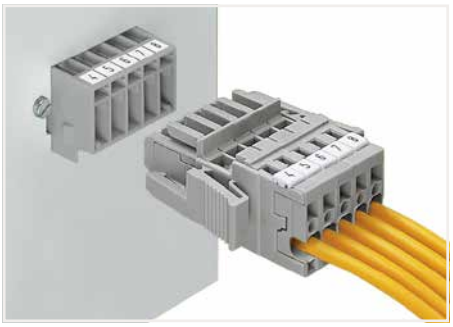
Male header; with straight solder pins and 1-conductor female plug (picture shows a relay module)



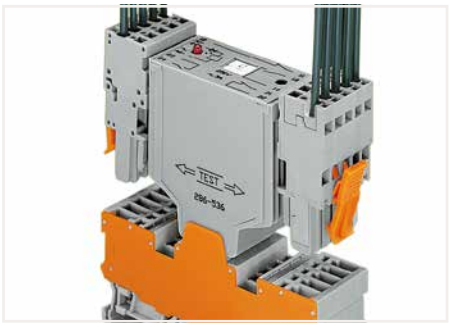
1-conductor/1-pin carrier terminal block; with two jumper positions
1-connector female plug; straight*
Fuse plug; 6 mm wide (every other terminal block)
*1-conductor angled female plug is also possible!



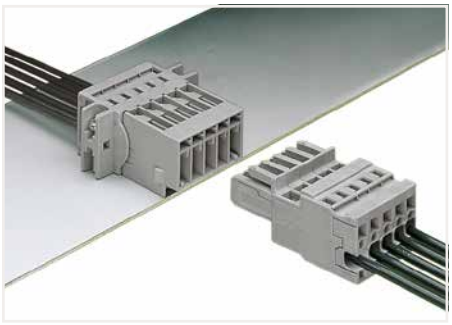
Male connector; with CAGE CLAMP® connection and snap-in mounting feet
1-connector female plug; straight



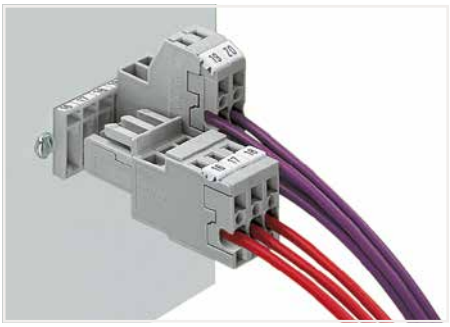
Male header and 1-conductor female plug; with lateral locking levers



2-pin terminal block for pluggable modules; with two jumper positions and separator plate
1-connector female plug; straight*
Relay plug; 25 mm wide
*1-conductor angled female plug is also possible!

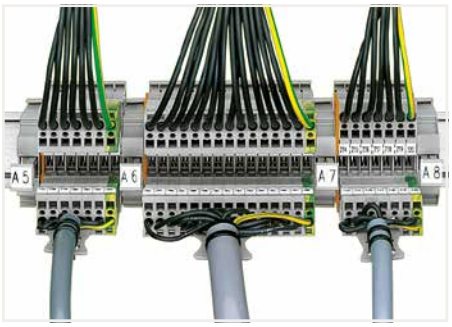


Male connector; with CAGE CLAMP® and mounting flanges
1-connector female plug; straight



Male header; with feedthrough flanges
1-conductor female plug
2-conductor female plug

1-conductor/1-pin double-deck carrier terminal block
1-conductor female plug; angled*
*1-conductor straight female plug is also possible!



Cable entry into the control cabinet:
The cables are led into the control cabinet with the connected female plugs and are directly plugged onto the carrier terminal blocks.

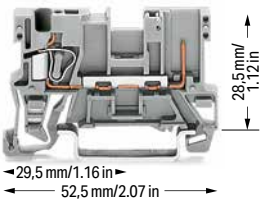
Cable entry in the base of the control cabinet
Separate strain relief, movable IP54 bottom plates sealed with sponge rubber (e.g., by Rittal)

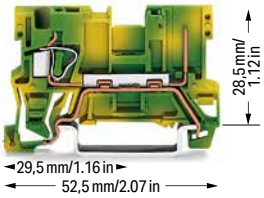
CAGE CLAMP®

1-Conductor/1-Pin Carrier Terminal Block X-COM®-SYSTEM
4 mm²; 769 Series

Technical Data	
0.08 … 4 mm²	28 … 12 AWG
500 V/6 kV/3 ❶	300 V, 20 A
I_N 32 A ❷	300 V, 20 A
Terminal block width: 5 mm / 0.197 inch	
8 … 9 mm / 0.31 … 0.35 inch	

Technical Data	
0.08 … 4 mm²	28 … 12 AWG
Terminal block width: 5 mm / 0.197 inch	
8 … 9 mm / 0.31 … 0.35 inch	





❶ 500 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
250 V/4 kV/3 = Nominal voltage with shield contact
(see Section 14)

❷ See current-carrying capacity curve on page 417 and upon request

Please observe the application notes:
Insulation stop, page 346
Jumpers, from page 348
Testing accessories, from page 343
Marking, from page 589

Approvals and corresponding ratings, visit www.wago.com

1-conductor/1-pin carrier terminal block

Color	Item No.	Pack. Unit
gray	769-176	100
blue	769-176/000-006	100

1-conductor/1-pin ground carrier terminal block

Color	Item No.	Pack. Unit
green-yellow	769-237	100

1-conductor/1-pin carrier terminal block; with shield contact

gray	769-231 ❶	50

Accessories; item-specific

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks

yellow | 280-415 | 100 (25)

Accessories; 769 Series

Appropriate marking systems: Mini-WSB/Mini-WSB Inline

End and intermediate plate; 1.1 mm thick

orange | 769-308 | 100 (25)
gray | 769-307 | 100 (25)

Insulation stop; 0.08 … 0.2 mm² "s" (0.14 mm² "f-st"); 5 pcs/strip

white | 769-470 | 200 (25)

Insulation stop; 0.25 … 0.5 mm²; 5 pcs/strip

light gray | 769-471 | 200 (25)

Insulation stop; 0.75 … 1 mm²; 5 pcs/strip

dark gray | 769-472 | 200 (25)

Coding pin; for coding female plugs

orange | 769-435 | 100 (25)

Adjacent jumper; insulated; I_N = I_N terminal block

gray | 280-402 | 200 (25)

Alternate jumper; insulated; I_N = I_N terminal block

gray | 280-409 | 100 (25)

Staggered jumper; insulated; 5 mm wide; I_N 24 A

1 to 2	780-452	100 (25)
1 to 3	780-453	100 (25)
1 to 4	780-454	100 (25)
1 to 5	780-455	50 (25)
1 to 6	780-456	50 (25)
1 to 7	780-457	50 (25)
1 to 8	780-458	50 (25)

Push-in type wire jumper; insulated; 0.75 mm² conductor cross section; I_N 9 A

L = 60 mm	249-125	100 (10)
L = 110 mm	249-126	100 (10)
L = 250 mm	249-127	100 (10)

Test plug module; snaps together; 5 mm wide

gray | 280-418 | 100 (25)

Spacer module; snaps together; 5 mm wide

gray | 280-419 | 100 (25)

Test plug; with 500 mm cable; 2 mm Ø; max. 42 V

red | 210-136 | 50

Test plug; with 500 mm cable; 2 mm Ø; max. 42 V

yellow | 210-137 | 50

Accessories; 769 Series

Appropriate marking systems: Mini-WSB/Mini-WSB Inline

Test plug adapter; 5 mm wide; for 210-137 Test Plug (2.3 mm Ø); for 1.5 … 4 mm² terminal blocks

gray | 280-404 | 100 (25)

Pin cover; with Mini-WSB marker slot

gray | 769-438 | 100 (25)
orange | 769-439 | 100 (25)

1-connector female plug; straight

gray | 769-101 | 200

1-conductor female plug; angled

gray | 769-101/022-000 | 200

2-conductor female plug

gray | 769-121 | 100

Mini-WSB marking card; white; 10 strips with 10 markers/card; 5 mm wide markers

plain | 248-501 | 5

Mini-WSB marking card; plain; 10 strips with 10 markers/card; 5 mm wide markers

yellow	248-501/000-002	5
red	248-501/000-005	5
blue	248-501/000-006	5
gray	248-501/000-007	5
orange	248-501/000-012	5
light green	248-501/000-017	5
green	248-501/000-023	5
violet	248-501/000-024	5

Screwless end stop; for DIN-35 rail; 6 mm wide

gray | 249-116 | 100 (25)

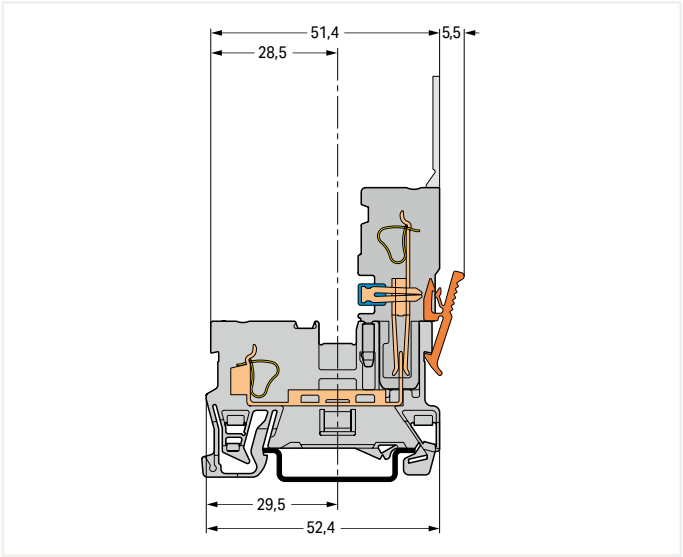
Screwless end stop; for DIN-35 rail; 10 mm wide

gray | 249-117 | 50 (25)

CAGE CLAMP®

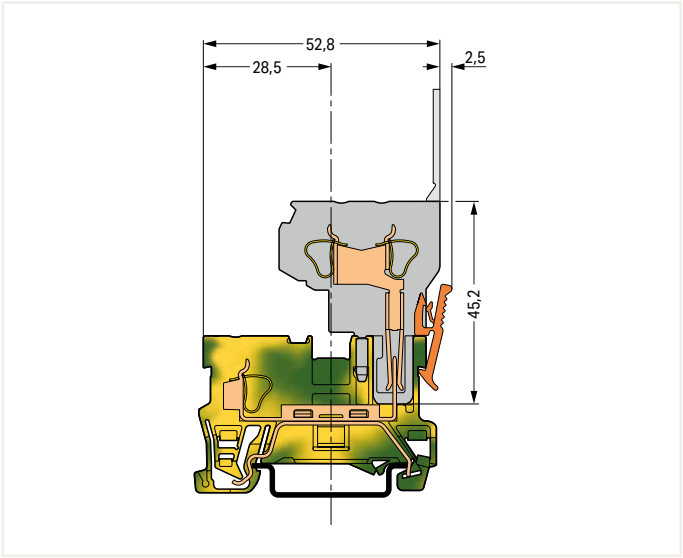
1-Conductor/1-Pin Carrier Terminal Blocks and 1-/2-Conductor Female Plugs X-COM®-SYSTEM
Assembly Types

1-conductor female plug
Carrier terminal blocks can be commoned via 280 and 780 Series Jumpers and tested using a test plug adapter (280-4..).

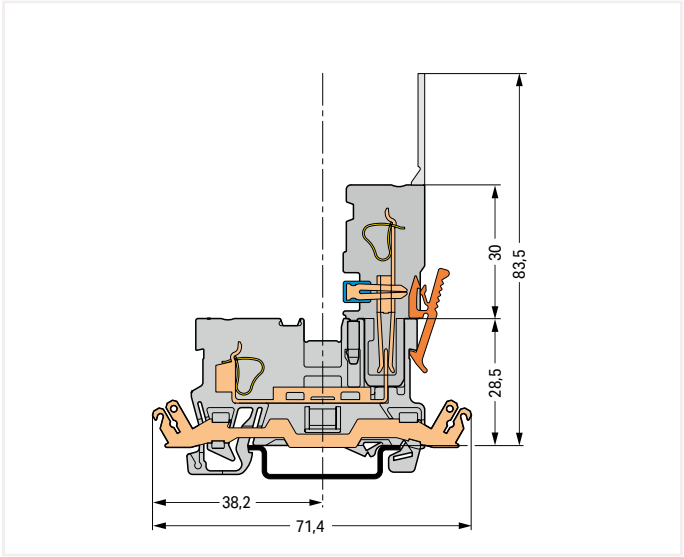


Carrier terminal block

2-conductor female plug
Carrier terminal blocks can only be commoned via 280 Series Adjacent and Alternate Jumpers.



Ground carrier terminal block



Carrier terminal block; with shield contact

6

2-Pin Carrier Terminal Block X-COM®-SYSTEM
769 Series

Technical Data	
500 V/6 kV/3 ❶	300 V, 20 A
I_N 32 A ❷	300 V, 20 A
Terminal block width: 5 mm / 0.197 inch	

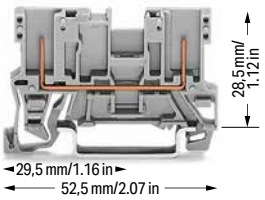
Technical Data
Terminal block width: 5 mm / 0.197 inch

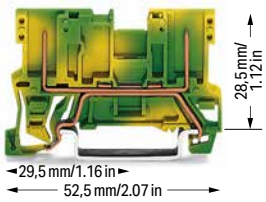
❶ 500 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
250 V/4 kV/3 = Nominal voltage with shield contact
(see Section 14)

❷ See current-carrying capacity curve and upon request

Please observe the application notes:
Jumpers, from page 348
Testing accessories, from page 343
Marking, from page 589

Approvals and corresponding ratings, visit www.wago.com





2-Pin Carrier Terminal Block		
Color	Item No.	Pack. Unit
gray	769-156	100

2-pin ground carrier terminal block		
Color	Item No.	Pack. Unit
green-yellow	769-227	100

2-pin carrier terminal block; with shield contact		
gray	769-221 ❶	50

Accessories; 769 Series

Appropriate marking systems: Mini-WSB/Mini-WSB Inline

End and intermediate plate; 1.1 mm thick

orange	769-306	100 (25)
gray	769-305	100 (25)

Coding pin; for coding female plugs

orange	769-435	100 (25)

Adjacent jumper; insulated; I_N = I_N terminal block

gray	280-402	200 (25)

Alternate jumper; insulated; I_N = I_N terminal block

gray	280-409	100 (25)

Staggered jumper; insulated; 5 mm wide; I_N 24 A

1 to 2	780-452	100 (25)
1 to 3	780-453	100 (25)
1 to 4	780-454	100 (25)
1 to 5	780-455	50 (25)
1 to 6	780-456	50 (25)
1 to 7	780-457	50 (25)
1 to 8	780-458	50 (25)

Push-in type wire jumper; insulated; 0.75 mm² conductor cross section; I_N 9 A

L = 60 mm	249-125	100 (10)
L = 110 mm	249-126	100 (10)
L = 250 mm	249-127	100 (10)

Test plug module; snaps together; 5 mm wide

gray	280-418	100 (25)

Spacer module; snaps together; 5 mm wide

gray	280-419	100 (25)

Test plug; with 500 mm cable; 2 mm Ø; max. 42 V

yellow	210-137	50

Test plug adapter; 5 mm wide; for 210-137 Test Plug (2.3 mm Ø); for 1.5 … 4 mm² terminal blocks

gray	280-404	100 (25)

Pin cover; with Mini-WSB marker slot

gray	769-438	100 (25)
orange	769-439	100 (25)

1-connector female plug; straight

gray	769-101	200

1-conductor female plug; angled

gray	769-101/022-000	200

2-conductor female plug

gray	769-121	100

Mini-WSB marking card; white; 10 strips with 10 markers/card; 5 mm wide markers

plain	248-501	5

Mini-WSB marking card; plain; 10 strips with 10 markers/card; 5 mm wide markers

yellow	248-501/000-002	5
red	248-501/000-005	5
blue	248-501/000-006	5
gray	248-501/000-007	5
orange	248-501/000-012	5
light green	248-501/000-017	5
green	248-501/000-023	5
violet	248-501/000-024	5

Accessories; 769 Series

Appropriate marking systems: Mini-WSB/Mini-WSB Inline

Screwless end stop; for DIN-35 rail; 6 mm wide

gray	249-116	100 (25)

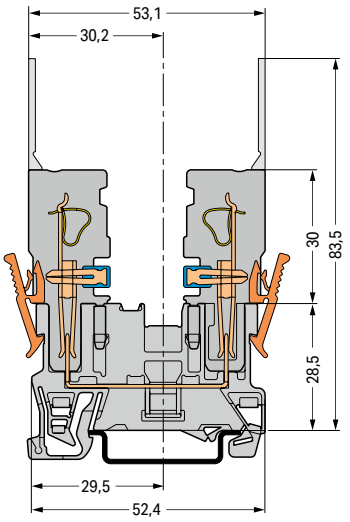
Screwless end stop; for DIN-35 rail; 10 mm wide

gray	249-117	50 (25)

6

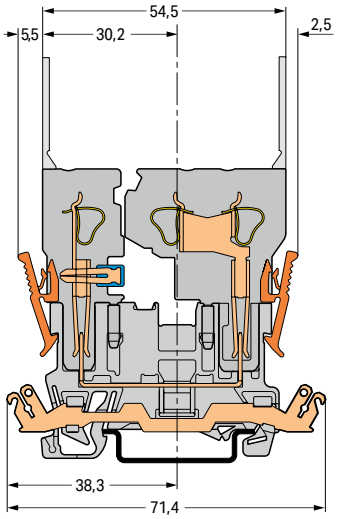
2-Pin Carrier Terminal Blocks and 1-/2-Conductor Female Plugs X-COM®-SYSTEM
Assembly Types

1-Conductor Female Plugs
Carrier terminal blocks can be commoned via 280 and 780 Series Jumpers and tested using a test plug adapter (280-4..).



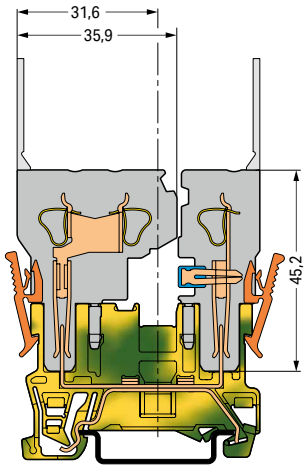
Carrier terminal block

1- and 2-Conductor Female Plug
Carrier terminal blocks can only be commoned via 280 Series Adjacent and Alternate Jumpers.



Carrier terminal block; with shield contact

2- and 1-Conductor Female Plug
Carrier terminal blocks can be commoned via 280 and 780 Series Jumpers.



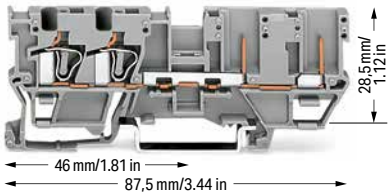
Ground carrier terminal block

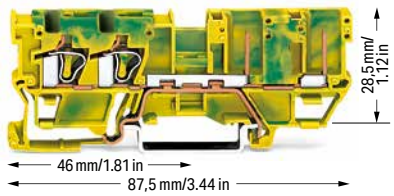
CAGE CLAMP®

2-Conductor/2-Pin Carrier Terminal Block X-COM®-SYSTEM
4 mm²; 769 Series

Technical Data	
0.08 … 4 mm²	28 … 12 AWG
500 V/6 kV/3 ❶	300 V, 20 A
I_N 32 A ❷	300 V, 20 A
Terminal block width: 5 mm / 0.197 inch	
8 … 9 mm / 0.31 … 0.35 inch	

Technical Data	
0.08 … 4 mm²	28 … 12 AWG
Terminal block width: 5 mm / 0.197 inch	
8 … 9 mm / 0.31 … 0.35 inch	





❶ 500 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
250 V/4 kV/3 = Nominal voltage with shield contact
(see Section 14)

❷ See current-carrying capacity curve on page 418 and upon request

Note: 1-conductor angled female plugs cannot be used.

Please observe the application notes:
Insulation stop, page 346
Jumpers, from page 348
Testing accessories, from page 342
Marking, from page 589

Approvals and corresponding ratings, visit www.wago.com

2-conductor/2-pin carrier terminal block

Color	Item No.	Pack. Unit
gray	769-171	50
blue	769-171/000-006	50

2-conductor/2-pin ground carrier terminal block

Color	Item No.	Pack. Unit
green-yellow	769-217	50

2-conductor/2-pin carrier terminal block; with shield contact

gray	769-211 ❶	50

Accessories; item-specific

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks

yellow | 280-415 | 100 (25)

Accessories; 769 Series

Appropriate marking systems: Mini-WSB/Mini-WSB Inline

End and intermediate plate; 1.1 mm thick

orange | 769-304 | 100 (25)
gray | 769-303 | 100 (25)

Insulation stop; 0.08 … 0.2 mm² "s" (0.14 mm² "f-st"); 5 pcs/strip

white | 769-470 | 200 (25)

Insulation stop; 0.25 … 0.5 mm²; 5 pcs/strip

light gray | 769-471 | 200 (25)

Insulation stop; 0.75 … 1 mm²; 5 pcs/strip

dark gray | 769-472 | 200 (25)

Coding pin; for coding female plugs

orange | 769-435 | 100 (25)

Adjacent jumper; insulated; I_N = I_N terminal block

gray | 280-402 | 200 (25)

Alternate jumper; insulated; I_N = I_N terminal block

gray | 280-409 | 100 (25)

Staggered jumper; insulated; 5 mm wide; I_N 24 A

1 to 2	780-452	100 (25)
1 to 3	780-453	100 (25)
1 to 4	780-454	100 (25)
1 to 5	780-455	50 (25)
1 to 6	780-456	50 (25)
1 to 7	780-457	50 (25)
1 to 8	780-458	50 (25)

Push-in type wire jumper; insulated; 0.75 mm² conductor cross section; I_N 9 A

L = 60 mm	249-125	100 (10)
L = 110 mm	249-126	100 (10)
L = 250 mm	249-127	100 (10)

Test plug module; snaps together; 5 mm wide

gray | 280-418 | 100 (25)

Spacer module; snaps together; 5 mm wide

gray | 280-419 | 100 (25)

Test plug; with 500 mm cable; 2 mm Ø; max. 42 V

red | 210-136 | 50

Test plug; with 500 mm cable; 2 mm Ø; max. 42 V

yellow | 210-137 | 50

Accessories; 769 Series

Appropriate marking systems: Mini-WSB/Mini-WSB Inline

Test plug adapter; 5 mm wide; for 210-137 Test Plug (2.3 mm Ø); for 1.5 … 4 mm² terminal blocks

gray | 280-404 | 100 (25)

Pin cover; with Mini-WSB marker slot

gray | 769-438 | 100 (25)
orange | 769-439 | 100 (25)

1-connector female plug; straight

gray | 769-101 | 200

2-conductor female plug

gray | 769-121 | 100

Mini-WSB marking card; white; 10 strips with 10 markers/card; 5 mm wide markers

plain | 248-501 | 5

Mini-WSB marking card; plain; 10 strips with 10 markers/card; 5 mm wide markers

yellow	248-501/000-002	5
red	248-501/000-005	5
blue	248-501/000-006	5
gray	248-501/000-007	5
orange	248-501/000-012	5
light green	248-501/000-017	5
green	248-501/000-023	5
violet	248-501/000-024	5

Screwless end stop; for DIN-35 rail; 6 mm wide

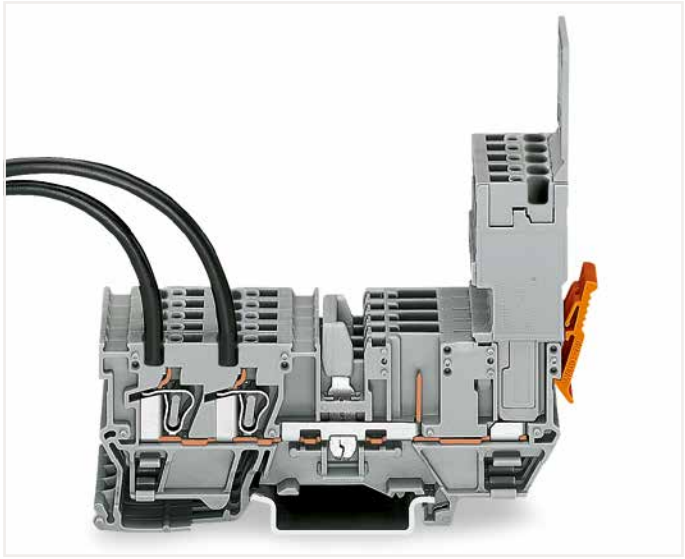
gray | 249-116 | 100 (25)

Screwless end stop; for DIN-35 rail; 10 mm wide

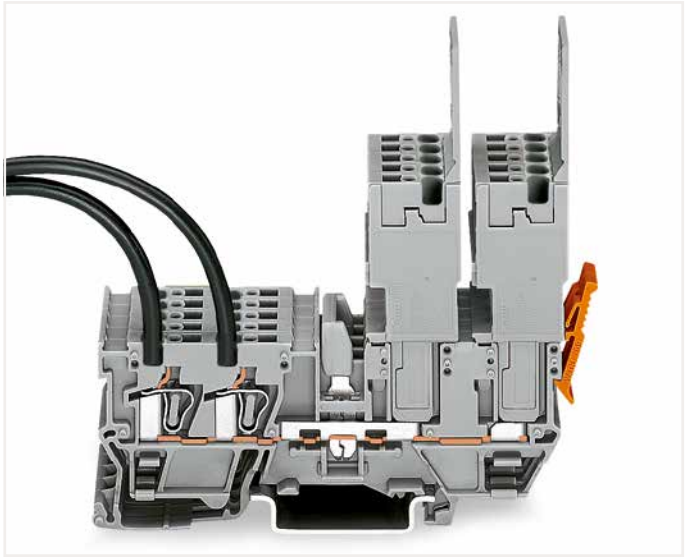
gray | 249-117 | 50 (25)

CAGE CLAMP®

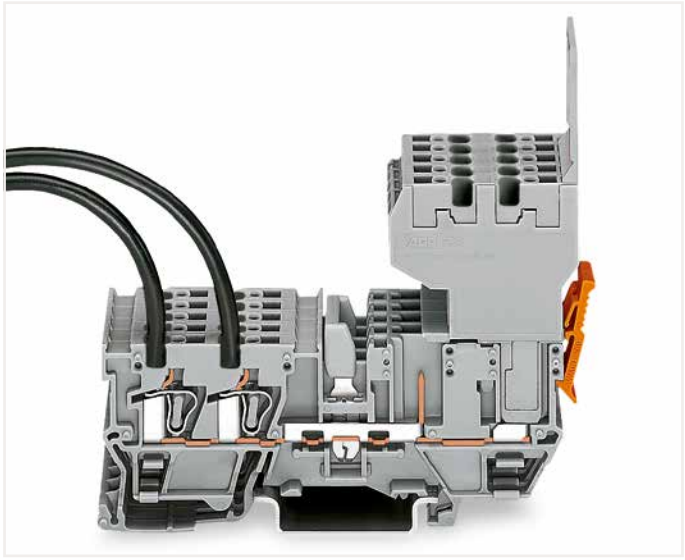
2-Conductor/2-Pin Carrier Terminal Blocks and 1-/2-Conductor Female Plugs X-COM®-SYSTEM
Assembly Types



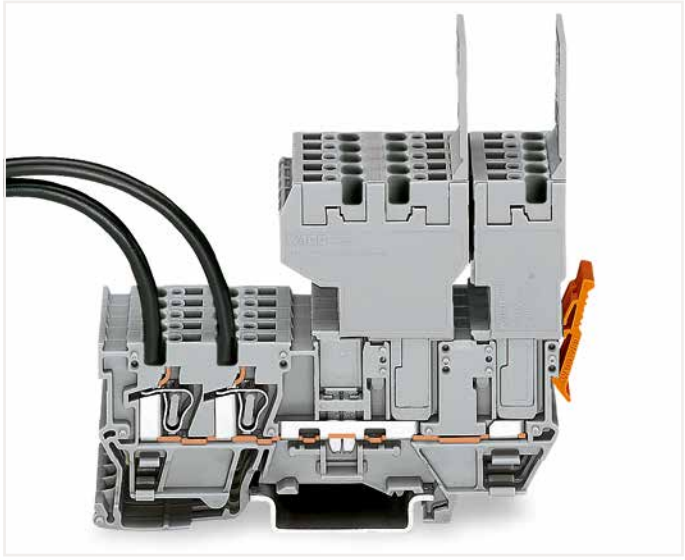
1-conductor female plug
Carrier terminal blocks can be commoned via 280 and 780 Series Jumpers and tested using a test plug adapter (280-4..).



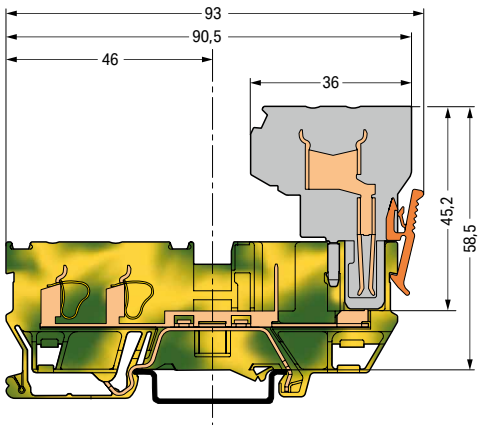
2 x 1-conductor female plugs
Carrier terminal blocks can be commoned via 280 and 780 Series Jumpers and tested using a test plug adapter (280-4..).

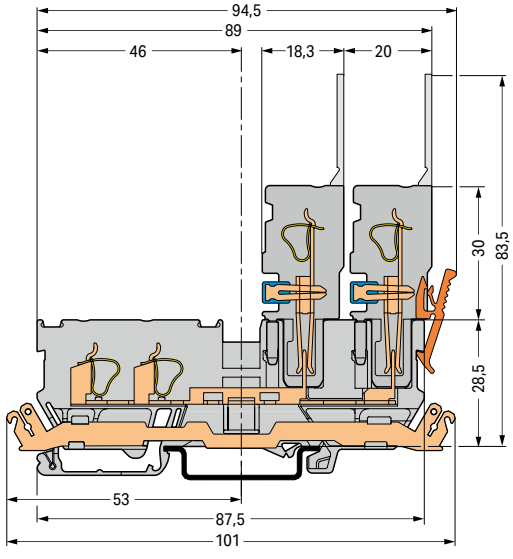


2-conductor female plug
Carrier terminal blocks can be commoned via 280 and 780 Series Jumpers and tested using a test plug adapter (280-4..).



1- and 2-Conductor Female Plug
Carrier terminal blocks can only be commoned via 280 Series Adjacent and Alternate Jumpers.





Ground carrier terminal block
Carrier terminal block; with shield contact

4-Pin Carrier Terminal Block X-COM®-SYSTEM
769 Series

Technical Data	
500 V/6 kV/3 ❶	300 V, 20 A
I_N 32 A ❷	300 V, 20 A
Terminal block width: 5 mm / 0.197 inch	

Technical Data
Terminal block width: 5 mm / 0.197 inch

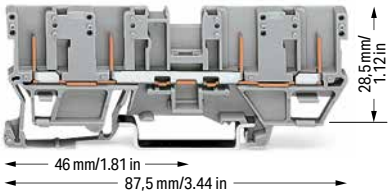
❶ 500 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
250 V/4 kV/3 = Nominal voltage with shield contact (see Section 14)

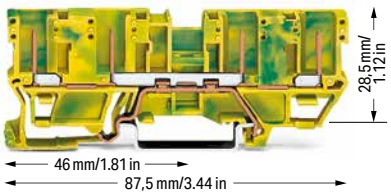
❷ See current-carrying capacity curve on page 418 and upon request

Note: 1-conductor angled female plugs cannot be used.

Please observe the application notes:
Jumpers, from page 348
Testing accessories, from page 343
Marking, from page 589

Approvals and corresponding ratings, visit www.wago.com





4-pin carrier terminal block		
Color	Item No.	Pack. Unit
gray	769-151	50

4-pin ground carrier terminal block		
Color	Item No.	Pack. Unit
green-yellow	769-207	50

4-pin carrier terminal block; with shield contact		
gray	769-201 ❶	50

6

Accessories; 769 Series

Appropriate marking systems: Mini-WSB/Mini-WSB Inline

End and intermediate plate; 1.1 mm thick

orange	769-302	100 (25)
gray	769-301	100 (25)

Coding pin; for coding female plugs

orange	769-435	100 (25)

Adjacent jumper; insulated; I_N = I_N terminal block

gray	280-402	200 (25)

Alternate jumper; insulated; I_N = I_N terminal block

gray	280-409	100 (25)

Staggered jumper; insulated; 5 mm wide; I_N 24 A

1 to 2	780-452	100 (25)
1 to 3	780-453	100 (25)
1 to 4	780-454	100 (25)
1 to 5	780-455	50 (25)
1 to 6	780-456	50 (25)
1 to 7	780-457	50 (25)
1 to 8	780-458	50 (25)

Push-in type wire jumper; insulated; 0.75 mm² conductor cross section; I_N 9 A

L = 60 mm	249-125	100 (10)
L = 110 mm	249-126	100 (10)
L = 250 mm	249-127	100 (10)

Test plug module; snaps together; 5 mm wide

gray	280-418	100 (25)

Spacer module; snaps together; 5 mm wide

gray	280-419	100 (25)

Test plug; with 500 mm cable; 2 mm Ø; max. 42 V

yellow	210-137	50

Test plug adapter; 5 mm wide; for 210-137 Test Plug (2.3 mm Ø); for 1.5 … 4 mm² terminal blocks

gray	280-404	100 (25)

Pin cover; with Mini-WSB marker slot

gray	769-438	100 (25)
orange	769-439	100 (25)

1-connector female plug; straight

gray	769-101	200

2-conductor female plug

gray	769-121	100

Mini-WSB marking card; white; 10 strips with 10 markers/ card; 5 mm wide markers

plain	248-501	5

Mini-WSB marking card; plain; 10 strips with 10 markers/ card; 5 mm wide markers

yellow	248-501/000-002	5
red	248-501/000-005	5
blue	248-501/000-006	5
gray	248-501/000-007	5
orange	248-501/000-012	5
light green	248-501/000-017	5
green	248-501/000-023	5
violet	248-501/000-024	5

Screwless end stop; for DIN-35 rail; 6 mm wide

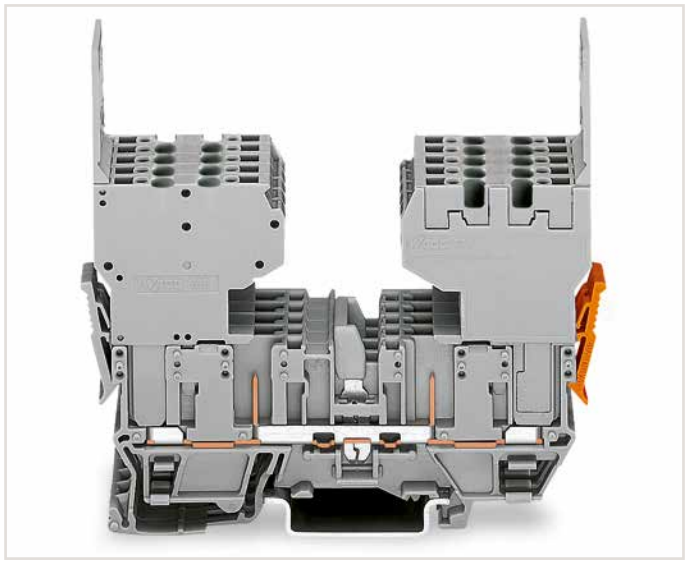
gray	249-116	100 (25)

Screwless end stop; for DIN-35 rail; 10 mm wide

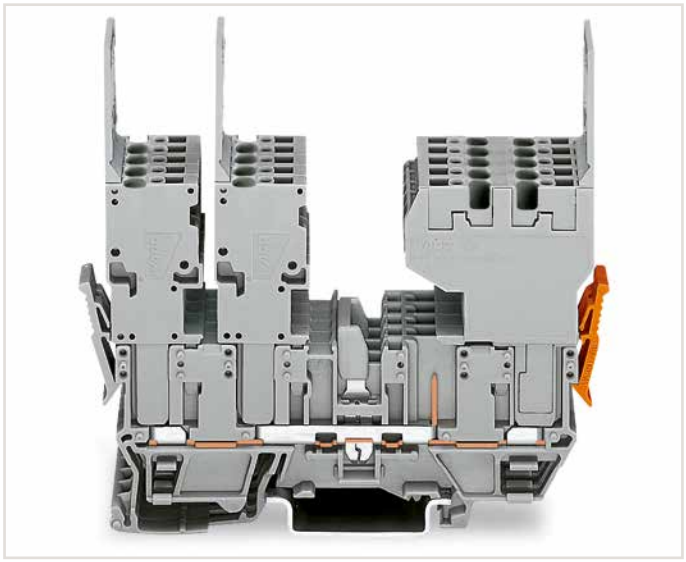
gray	249-117	50 (25)

4-Pin Carrier Terminal Blocks and 1-/2-Conductor Female Plugs X-COM®-SYSTEM
Assembly Types

4 x 1-conductor female plugs
Carrier terminal blocks can be commoned via 280 and 780 Series Jumpers and tested using a test plug adapter (280-4..).

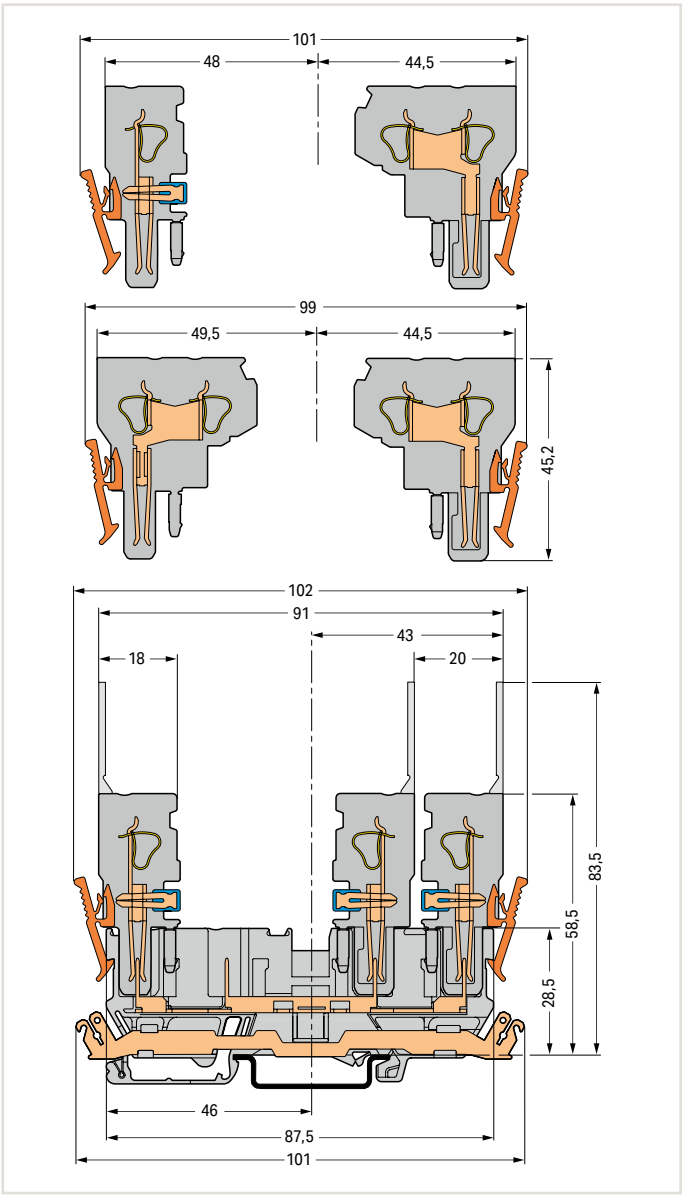


2 x 2-conductor female plugs
Carrier terminal blocks can be commoned via 280 and 780 Series Jumpers and tested using a test plug adapter (280-4..).



2 x 1-conductor female plug (left), 1 x 2-conductor female plug (right), may be reversed – carrier terminal blocks can be commoned via 280 and 780 Series Jumpers and tested using a test plug adapter (280-4..).

1-conductor and 2-conductor female plugs (left), 2-conductor female plug (right), may be reversed – carrier terminal blocks can only be commoned via 280 Series Adjacent and Alternate Jumpers.



Carrier terminal block; with shield contact

6

CAGE CLAMP®

2-Conductor/1-Pin Carrier Terminal Block X-COM®-SYSTEM
4 mm²; 769 Series

Technical Data	
0.08 … 4 mm²	28 … 12 AWG
500 V/6 kV/3 ❶	300 V, 20 A
I_N 32 A ❷	300 V, 20 A
Terminal block width: 5 mm / 0.197 inch	
8 … 9 mm / 0.31 … 0.35 inch	

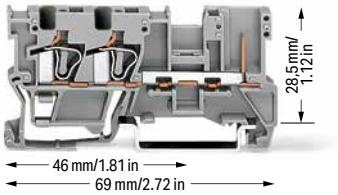
Technical Data	
0.08 … 4 mm²	28 … 12 AWG
Terminal block width: 5 mm / 0.197 inch	
8 … 9 mm / 0.31 … 0.35 inch	

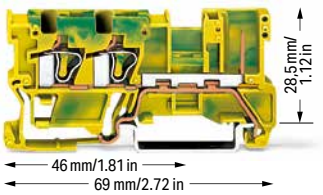
❶ 500 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

❷ Current-carrying capacity curves upon request

Please observe the application notes:
Insulation stop, page 346
Jumpers, from page 348
Testing accessories, from page 342
Marking, from page 589

Approvals and corresponding ratings, visit www.wago.com





2-Conductor/1-Pin Carrier Terminal Block		
Color	Item No.	Pack. Unit
gray	769-251	50
blue	769-251/000-006	50

1-conductor/1-pin ground carrier terminal block		
Color	Item No.	Pack. Unit
green-yellow	769-257	50

6

Accessories; item-specific

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks

yellow	280-415	100 (25)

Accessories; 769 Series

Appropriate marking systems: Mini-WSB/Mini-WSB Inline

End and intermediate plate; 1.1 mm thick

orange	769-321	100 (25)
gray	769-320	100 (25)

Insulation stop; 0.08 … 0.2 mm² "s" (0.14 mm² "f-st"); 5 pcs/strip

white	769-470	200 (25)

Insulation stop; 0.25 … 0.5 mm²; 5 pcs/strip

light gray	769-471	200 (25)

Insulation stop; 0.75 … 1 mm²; 5 pcs/strip

dark gray	769-472	200 (25)

Coding pin; for coding female plugs

orange	769-435	100 (25)

Adjacent jumper; insulated; I_N = I_N terminal block

gray	280-402	200 (25)

Alternate jumper; insulated; I_N = I_N terminal block

gray	280-409	100 (25)

Push-in type wire jumper; insulated; 0.75 mm² conductor cross section; I_N 9 A

L = 60 mm	249-125	100 (10)
L = 110 mm	249-126	100 (10)
L = 250 mm	249-127	100 (10)

Staggered jumper; insulated; 5 mm wide; I_N 24 A

1 to 2	780-452	100 (25)
1 to 3	780-453	100 (25)
1 to 4	780-454	100 (25)
1 to 5	780-455	50 (25)
1 to 6	780-456	50 (25)
1 to 7	780-457	50 (25)
1 to 8	780-458	50 (25)

Test plug module; snaps together; 5 mm wide

gray	280-418	100 (25)

Spacer module; snaps together; 5 mm wide

gray	280-419	100 (25)

B-type test plug module; snaps together; 5 mm wide

gray	249-106	100 (25)

Test plug; with 500 mm cable; 2 mm Ø; max. 42 V

red	210-136	50

Test plug; with 500 mm cable; 2 mm Ø; max. 42 V

yellow	210-137	50

Test plug adapter; 5 mm wide; for 210-137 Test Plug (2.3 mm Ø); for 1.5 … 4 mm² terminal blocks

gray	280-404	100 (25)

Accessories; 769 Series

Appropriate marking systems: Mini-WSB/Mini-WSB Inline

Pin cover; with Mini-WSB marker slot

gray	769-438	100 (25)
orange	769-439	100 (25)

1-connector female plug; straight

gray	769-101	200

1-conductor female plug; angled

gray	769-101/022-000	200

2-conductor female plug

gray	769-121	100

Mini-WSB marking card; white; 10 strips with 10 markers/card; 5 mm wide markers

plain	248-501	5

Mini-WSB marking card; plain; 10 strips with 10 markers/card; 5 mm wide markers

yellow	248-501/000-002	5
red	248-501/000-005	5
blue	248-501/000-006	5
gray	248-501/000-007	5
orange	248-501/000-012	5
light green	248-501/000-017	5
green	248-501/000-023	5
violet	248-501/000-024	5

Screwless end stop; for DIN-35 rail; 6 mm wide

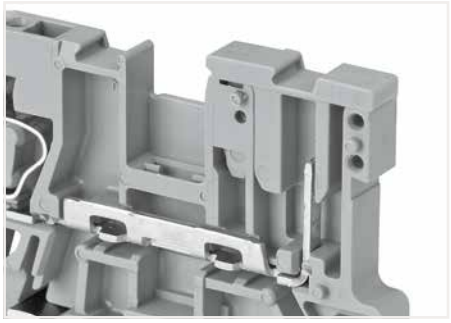
gray	249-116	100 (25)

Screwless end stop; for DIN-35 rail; 10 mm wide

gray	249-117	50 (25)

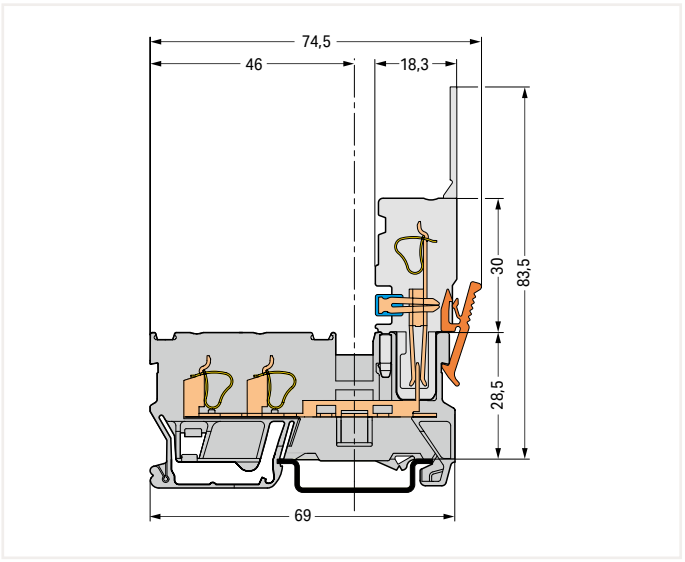
CAGE CLAMP®

2-Conductor/1-Pin Carrier Terminal Blocks and 1-/2-Conductor Female Plugs X-COM®-SYSTEM
Assembly Types

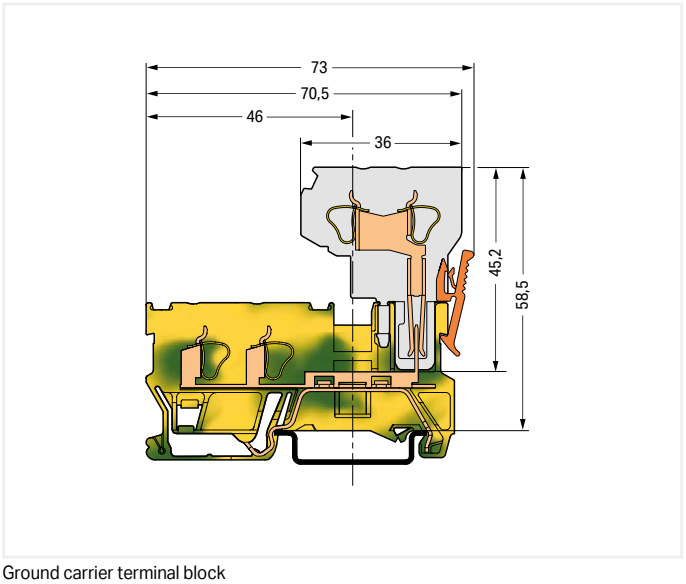


Pin cover (769-438); with Mini-WSB marker slot

1-conductor female plug
Carrier terminal blocks can be commoned via 280 and 780 Series Jumpers and tested using a test plug adapter (280-4..).



Carrier terminal block



Ground carrier terminal block

6

CAGE CLAMP®

1-Conductor/1-Pin Carrier Terminal Block X-COM®-SYSTEM; with Three Jumper Positions
4 mm²; 769 Series

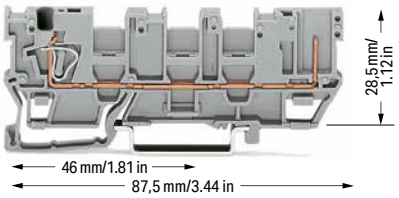
Technical Data	
0.08 … 4 mm²	28 … 12 AWG
500 V/6 kV/3 ❶	300 V, 20 A
I_N 32 A ❷	300 V, 20 A
Terminal block width: 5 mm / 0.197 inch	
8 … 9 mm / 0.31 … 0.35 inch	

❶ 500 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

❷ Current-carrying capacity curves upon request

Please observe the application notes:
Insulation stop, page 346
Marking, from page 589

Approvals and corresponding ratings, visit www.wago.com



1-conductor/1-pin carrier terminal block; with three jumper positions

Color	Item No.	Pack. Unit
gray	769-214	50

Accessories; 769 Series

Appropriate marking systems:
Mini-WSB/Mini-WSB Inline

End and intermediate plate; 1.1 mm thick

orange	769-316	100 (25)
gray	769-315	100 (25)

Insulation stop; 0.08 … 0.2 mm² "s" (0.14 mm² "f-st"); 5 pcs/strip

white	769-470	200 (25)

Insulation stop; 0.25 … 0.5 mm²; 5 pcs/strip

light gray	769-471	200 (25)

Accessories; 769 Series

Appropriate marking systems:
Mini-WSB/Mini-WSB Inline

Insulation stop; 0.75 … 1 mm²; 5 pcs/strip

dark gray	769-472	200 (25)

Coding pin; for coding female plugs

orange	769-435	100 (25)

Adjacent jumper; insulated; I_N = I_N terminal block

gray	280-402	200 (25)

Alternate jumper; insulated; I_N = I_N terminal block

gray	280-409	100 (25)

Pin cover; with Mini-WSB marker slot

gray	769-438	100 (25)
orange	769-439	100 (25)

Accessories; 769 Series

Appropriate marking systems:
Mini-WSB/Mini-WSB Inline

1-connector female plug; straight

gray	769-101	200

1-conductor female plug; angled

gray	769-101/022-000	200

2-conductor female plug

gray	769-121	100

Mini-WSB marking card; white; 10 strips with 10 markers/card; 5 mm wide markers

plain	248-501	5

Mini-WSB marking card; plain; 10 strips with 10 markers/card; 5 mm wide markers

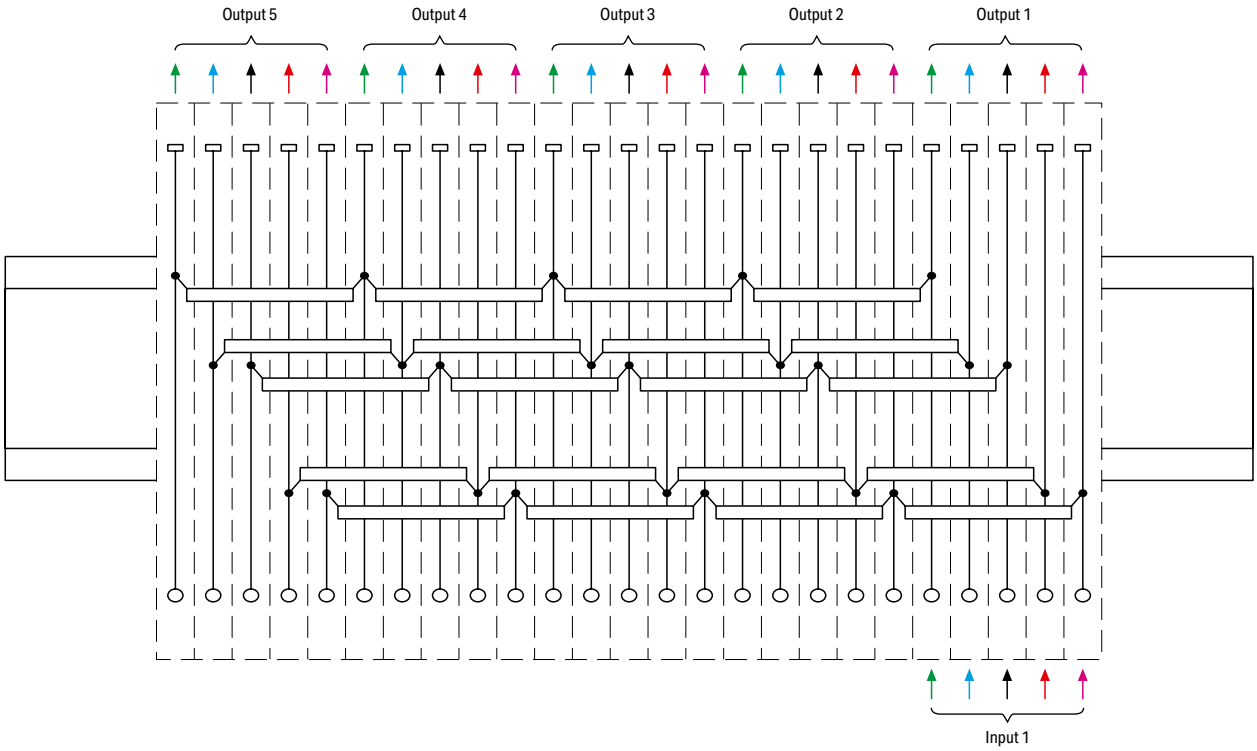
yellow	248-501/000-002	5
red	248-501/000-005	5
blue	248-501/000-006	5
gray	248-501/000-007	5
orange	248-501/000-012	5
light green	248-501/000-017	5
green	248-501/000-023	5
violet	248-501/000-024	5

Screwless end stop; for DIN-35 rail; 6 mm wide

gray	249-116	100 (25)

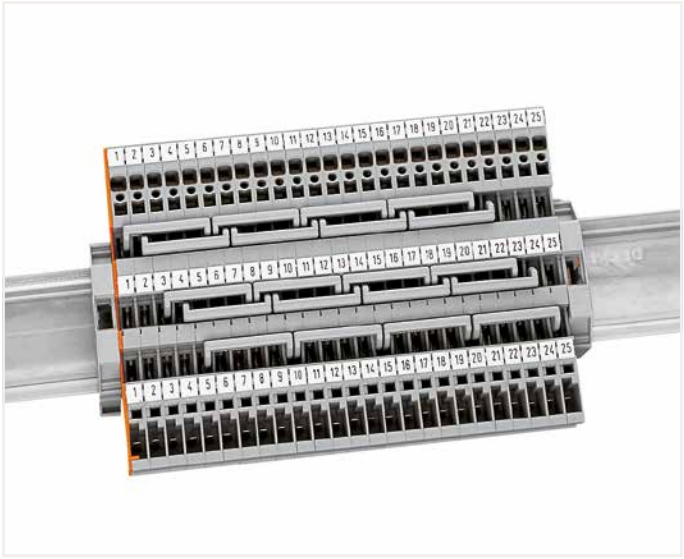
Screwless end stop; for DIN-35 rail; 10 mm wide

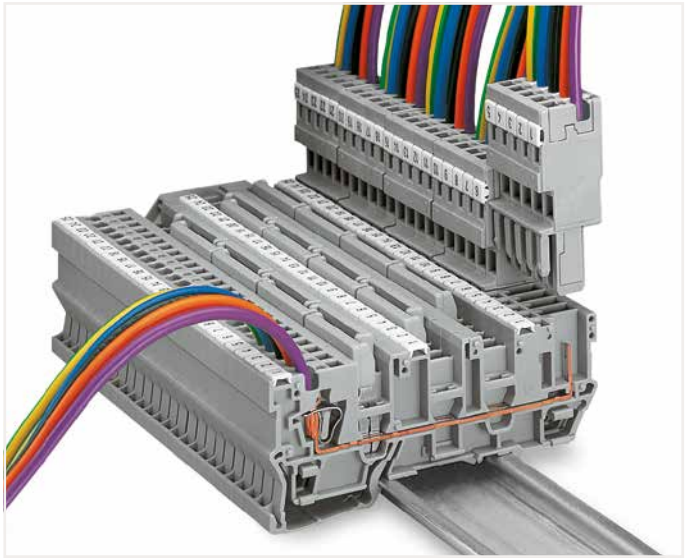
gray	249-117	50 (25)



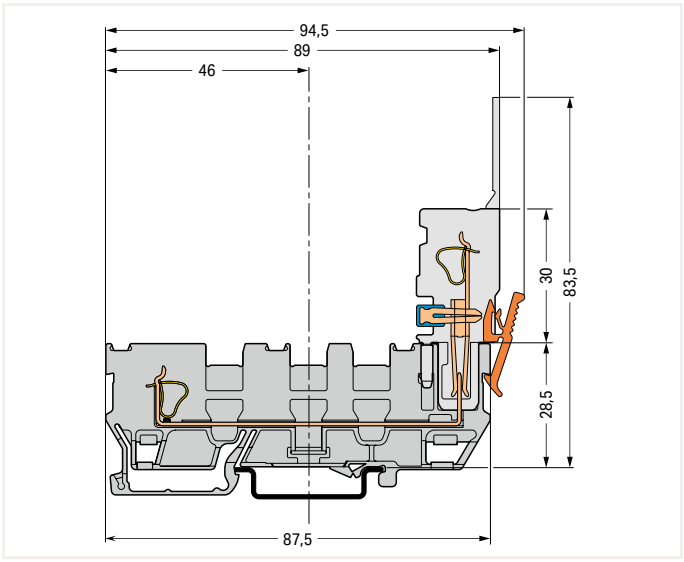
CAGE CLAMP®

1-Conductor/1-Pin Carrier Terminal Blocks and 1-/2-Conductor Female Plugs X-COM®-SYSTEM
Assembly Types

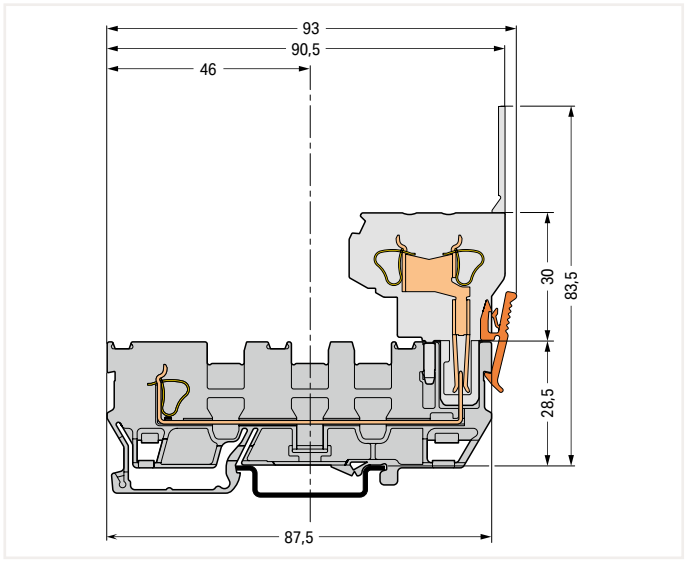




1-conductor/1-pin carrier terminal blocks; with three jumper positions
The three jumper positions allow up to six commoning options for staggered jumpers.



Carrier terminal block

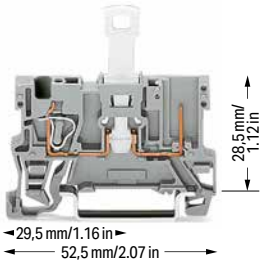


Carrier terminal block

Application examples:
Multiplication of three-phase circuits L1-L2-L3-N-PE
with pluggable outputs (e.g., for motors, frequency converters, power units)
Voltage supplies to multiple locations
(e.g., ±15 V, 0 V, +5 V, +12 V, +24 V)
Various wire-to-wire interfacing possibilities

1-Conductor/1-Pin and 2-Pin Disconnect Carrier Terminal Block X-COM®-SYSTEM
4 mm²; 769 Series

Technical Data	
0.08 … 4 mm²	28 … 12 AWG
400 V/6 kV/3 ❶	300 V, 20 A
I_N 16 A ❷	300 V, 20 A
Terminal block width: 5 mm / 0.197 inch	
8 … 9 mm / 0.31 … 0.35 inch	



1-conductor/1-pin disconnect carrier terminal block

Color	Item No.	Pack. Unit
gray	769-232	50

1-conductor/1-pin disconnect carrier terminal block; with shield contact

gray	769-233 ❶	50

Accessories; item-specific

End and intermediate plate; 1.1 mm thick

orange	769-308	100 (25)
gray	769-307	100 (25)

Insulation stop; 0.08 … 0.2 mm² "s" (0.14 mm² "f-st"); 5 pcs/strip

white	769-470	200 (25)

Insulation stop; 0.25 … 0.5 mm²; 5 pcs/strip

light gray	769-471	200 (25)

Insulation stop; 0.75 … 1 mm²; 5 pcs/strip

dark gray	769-472	200 (25)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks

yellow	280-415	100 (25)

Test plug; with 500 mm cable; 2 mm Ø; max. 42 V

red	210-136	50

Accessories; 769 Series

Appropriate marking systems: Mini-WSB/Mini-WSB Inline

Coding pin; for coding female plugs

orange	769-435	100 (25)

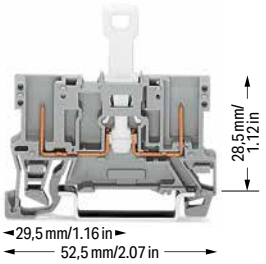
Test plug; with 500 mm cable; 2 mm Ø; max. 42 V

yellow	210-137	50

Disconnect lock; for disconnect tab used on disconnect terminal blocks (280/281 and 769 Series)

red	709-170	200 (25)

Technical Data	
400 V/6 kV/3 ❶	300 V, 20 A
I_N 16 A ❷	300 V, 20 A
Terminal block width: 5 mm / 0.197 inch	



2-pin disconnect carrier terminal block

Color	Item No.	Pack. Unit
gray	769-222	50

2-pin disconnect carrier terminal block; with shield contact

gray	769-223 ❶	50

Accessories; item-specific

End and intermediate plate; 1.1 mm thick

orange	769-306	100 (25)
gray	769-305	100 (25)

Accessories; 769 Series

Appropriate marking systems: Mini-WSB/Mini-WSB Inline

1-connector female plug; straight

gray	769-101	200

1-conductor female plug; angled

gray	769-101/022-000	200

Mini-WSB marking card; white; 10 strips with 10 markers/card; 5 mm wide markers

plain	248-501	5

❶ 400 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
250 V/4 kV/3 = Nominal voltage with shield contact
(see Section 14)

❷ 16 A, 85°C upper temperature limit, current-carrying capacity curves upon request

Note: 2-conductor female plugs cannot be used.

Please observe the application notes:
Insulation stop, page 346
Marking, from page 589

Approvals and corresponding ratings, visit www.wago.com

Accessories; 769 Series

Appropriate marking systems: Mini-WSB/Mini-WSB Inline

Mini-WSB marking card; plain; 10 strips with 10 markers/card; 5 mm wide markers

yellow	248-501/000-002	5
red	248-501/000-005	5
blue	248-501/000-006	5
gray	248-501/000-007	5
orange	248-501/000-012	5
light green	248-501/000-017	5
green	248-501/000-023	5
violet	248-501/000-024	5

Screwless end stop; for DIN-35 rail; 6 mm wide

gray	249-116	100 (25)

Screwless end stop; for DIN-35 rail; 10 mm wide

gray	249-117	50 (25)

CAGE CLAMP®

1-Conductor/1-Pin and 2-Pin Disconnect Carrier Terminal Block X-COM®-SYSTEM; with Two Jumper Positions

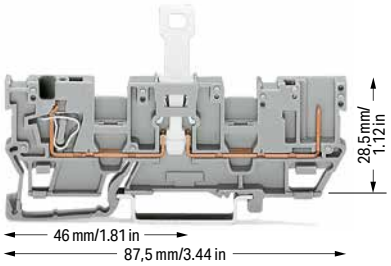
4 mm²; 769 Series

Technical Data

0.08 … 4 mm²	28 … 12 AWG
400 V/6 kV/3 ❶	300 V, 20 A
I_N 16 A ❷	300 V, 20 A

Terminal block width: 5 mm / 0.197 inch

8 … 9 mm / 0.31 … 0.35 inch



1-conductor/1-pin disconnect carrier terminal block; with two jumper positions

Color	Item No.	Pack. Unit
gray	769-212	50

1-conductor/1-pin disconnect carrier terminal block; with shield contact; with two jumper positions

Color	Item No.	Pack. Unit
gray	769-213 ❶	50

Accessories; item-specific

End and intermediate plate; 1.1 mm thick

orange	769-312	100 (25)
gray	769-311	100 (25)

Separator; oversized; 1.1 mm thick

orange	769-314	100 (25)

Insulation stop; 0.08 … 0.2 mm² "s" (0.14 mm² "f-st"); 5 pcs/strip

white	769-470	200 (25)

Insulation stop; 0.25 … 0.5 mm²; 5 pcs/strip

light gray	769-471	200 (25)

Insulation stop; 0.75 … 1 mm²; 5 pcs/strip

dark gray	769-472	200 (25)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks

yellow	280-415	100 (25)

Test plug; with 500 mm cable; 2 mm Ø; max. 42 V

red	210-136	50

Accessories; 769 Series

Appropriate marking systems: Mini-WSB/Mini-WSB Inline

Coding pin; for coding female plugs

orange	769-435	100 (25)

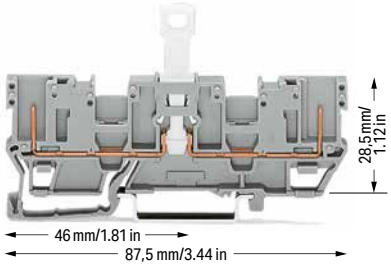
Test plug; with 500 mm cable; 2 mm Ø; max. 42 V

yellow	210-137	50

Technical Data

400 V/6 kV/3 ❶	300 V, 20 A
I_N 16 A ❷	300 V, 20 A

Terminal block width: 5 mm / 0.197 inch



2-pin disconnect carrier terminal block; with two jumper positions

Color	Item No.	Pack. Unit
gray	769-202	50

2-pin disconnect carrier terminal block; with shield contact; with two jumper positions

Color	Item No.	Pack. Unit
gray	769-203 ❶	50

Accessories; item-specific

End and intermediate plate; 1.1 mm thick

orange	769-310	100 (25)
gray	769-309	100 (25)

Separator; oversized; 1.1 mm thick

orange	769-313	100 (25)

Accessories; 769 Series

Appropriate marking systems: Mini-WSB/Mini-WSB Inline

Disconnect lock; for disconnect tab used on disconnect terminal blocks (280/281 and 769 Series)

red	709-170	200 (25)

❶ 400 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
250 V/4 kV/3 = Nominal voltage with shield contact (see Section 14)

❷ 16 A, 85°C upper temperature limit, current-carrying capacity curves upon request

Please observe the application notes:
Insulation stop, page 346
Jumpers, from page 348
Testing accessories, from page 344
Marking, from page 589

Approvals and corresponding ratings, visit www.wago.com

Accessories; 769 Series

Appropriate marking systems: Mini-WSB/Mini-WSB Inline

Adjacent jumper; insulated; I_N = I_N terminal block

gray	280-402	200 (25)

Alternate jumper; insulated; I_N = I_N terminal block

gray	280-409	100 (25)

Staggered jumper; insulated; 5 mm wide; I_N 24 A

1 to 2	780-452	100 (25)
1 to 3	780-453	100 (25)
1 to 4	780-454	100 (25)
1 to 5	780-455	50 (25)
1 to 6	780-456	50 (25)
1 to 7	780-457	50 (25)
1 to 8	780-458	50 (25)

Push-in type wire jumper; insulated; 0.75 mm² conductor cross section; I_N 9 A

L = 60 mm	249-125	100 (10)
L = 110 mm	249-126	100 (10)
L = 250 mm	249-127	100 (10)

Test plug module; snaps together; 5 mm wide

gray	280-418	100 (25)

1-connector female plug; straight

gray	769-101	200

1-conductor female plug; angled

gray	769-101/022-000	200

2-conductor female plug

gray	769-121	100

Mini-WSB marking card; white; 10 strips with 10 markers/card; 5 mm wide markers

plain	248-501	5

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CAGE CLAMP®

1-Conductor/1-Pin and 2-Pin Diode Carrier Terminal Block X-COM®-SYSTEM
4 mm²; 769 Series

Technical Data

0.08 … 4 mm²	28 … 12 AWG
U_N 250 V; U_{RM} 1000 V	
1N4007 – 0.5 A continuous current	
Terminal block width: 5 mm / 0.197 inch	
8 … 9 mm / 0.31 … 0.35 inch	

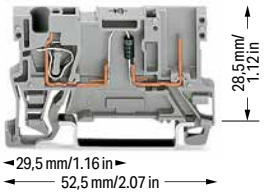
Technical Data

U_N 250 V; U_{RM} 1000 V
1N4007 – 0.5 A continuous current
Terminal block width: 5 mm / 0.197 inch

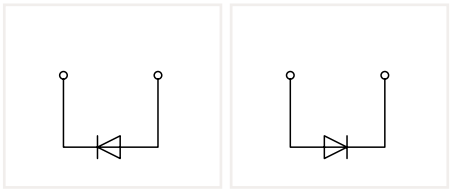
Note: 2-conductor female plugs cannot be used.

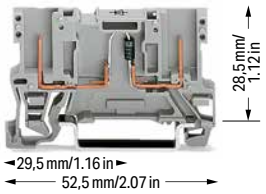
Please observe the application notes:
Insulation stop, page 346
Marking, from page 589

Approvals and corresponding ratings, visit www.wago.com

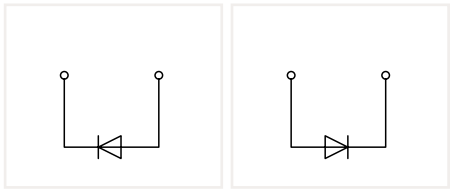


769-238/281-411 769-238/281-410





769-228/281-411 769-228/281-410



1-conductor/1-pin diode carrier terminal block

	Item No.	Pack. Unit
Anode, right side	769-238/281-411	100
Anode, left side	769-238/281-410	100

2-pin diode carrier block

	Item No.	Pack. Unit
Anode, right side	769-228/281-411	100
Anode, left side	769-228/281-410	100

Accessories; item-specific

End and intermediate plate; 1.1 mm thick

orange	769-308	100 (25)
gray	769-307	100 (25)

Insulation stop; 0.08 … 0.2 mm² "s" (0.14 mm² "f-st"); 5 pcs/strip

white	769-470	200 (25)

Insulation stop; 0.25 … 0.5 mm²; 5 pcs/strip

light gray	769-471	200 (25)

Insulation stop; 0.75 … 1 mm²; 5 pcs/strip

dark gray	769-472	200 (25)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks

yellow	280-415	100 (25)

Test plug; with 500 mm cable; 2 mm Ø; max. 42 V

red	210-136	50

Accessories; item-specific

End and intermediate plate; 1.1 mm thick

orange	769-306	100 (25)
gray	769-305	100 (25)

Accessories; 769 Series

Appropriate marking systems: Mini-WSB/Mini-WSB Inline

Coding pin; for coding female plugs

orange	769-435	100 (25)

Test plug; with 500 mm cable; 2 mm Ø; max. 42 V

yellow	210-137	50

1-connector female plug; straight

gray	769-101	200

1-conductor female plug; angled

gray	769-101/022-000	200

Accessories; 769 Series

Appropriate marking systems: Mini-WSB/Mini-WSB Inline

Mini-WSB marking card; white; 10 strips with 10 markers/card; 5 mm wide markers

plain	248-501	5

Mini-WSB marking card; plain; 10 strips with 10 markers/card; 5 mm wide markers

yellow	248-501/000-002	5
red	248-501/000-005	5
blue	248-501/000-006	5
gray	248-501/000-007	5
orange	248-501/000-012	5
light green	248-501/000-017	5
green	248-501/000-023	5
violet	248-501/000-024	5

Screwless end stop; for DIN-35 rail; 6 mm wide

gray	249-116	100 (25)

Screwless end stop; for DIN-35 rail; 10 mm wide

gray	249-117	50 (25)

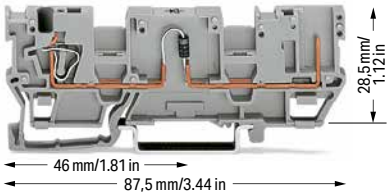
CAGE CLAMP®

1-Conductor/1-Pin and 2-Din Diode Carrier Terminal Block X-COM®-SYSTEM; with Two Jumper Positions

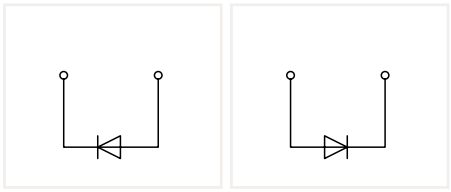
4 mm²; 769 Series

Technical Data

0.08 … 4 mm²	28 … 12 AWG
U_N 250 V; U_{RM} 1000 V	
1N4007 – 0.5 A continuous current	
Terminal block width: 5 mm / 0.197 inch	
8 … 9 mm / 0.31 … 0.35 inch	



769-218/281-411 769-218/281-410



1-conductor/1-pin diode carrier terminal block; with two jumper positions

	Item No.	Pack. Unit
◯ Anode, right side	769-218/281-411	50
◯ Anode, left side	769-218/281-410	50

Accessories; item-specific

End and intermediate plate; 1.1 mm thick

orange	769-312	100 (25)
gray	769-311	100 (25)

Separator; oversized; 1.1 mm thick

orange	769-314	100 (25)

Insulation stop; 0.08 … 0.2 mm² "s" (0.14 mm² "f-st"); 5 pcs/strip

white	769-470	200 (25)

Insulation stop; 0.25 … 0.5 mm²; 5 pcs/strip

light gray	769-471	200 (25)

Insulation stop; 0.75 … 1 mm²; 5 pcs/strip

dark gray	769-472	200 (25)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks

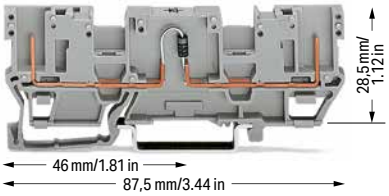
yellow	280-415	100 (25)

Test plug; with 500 mm cable; 2 mm Ø; max. 42 V

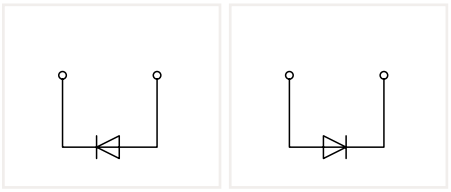
red	210-136	50

Technical Data

U_N 250 V; U_{RM} 1000 V
1N4007 – 0.5 A continuous current
Terminal block width: 5 mm / 0.197 inch



769-208/281-411 769-208/281-410



2-pin diode carrier terminal block; with two jumper positions

	Item No.	Pack. Unit
◯ Anode, right side	769-208/281-411	50
◯ Anode, left side	769-208/281-410	50

Accessories; item-specific

End and intermediate plate; 1.1 mm thick

orange	769-310	100 (25)
gray	769-309	100 (25)

Separator; oversized; 1.1 mm thick

orange	769-313	100 (25)

Please observe the application notes:
Insulation stop, page 346
Jumpers, from page 348
Testing accessories, from page 344
Marking, from page 589

Approvals and corresponding ratings, visit www.wago.com

Accessories; 769 Series

Appropriate marking systems: Mini-WSB/Mini-WSB Inline

Coding pin; for coding female plugs

orange	769-435	100 (25)

Adjacent jumper; insulated; I_N = I_N terminal block

gray	280-402	200 (25)

Alternate jumper; insulated; I_N = I_N terminal block

gray	280-409	100 (25)

Staggered jumper; insulated; 5 mm wide; I_N 24 A

1 to 2	780-452	100 (25)
1 to 3	780-453	100 (25)
1 to 4	780-454	100 (25)
1 to 5	780-455	50 (25)
1 to 6	780-456	50 (25)
1 to 7	780-457	50 (25)
1 to 8	780-458	50 (25)

Push-in type wire jumper; insulated; 0.75 mm² conductor cross section; I_N 9 A

L = 60 mm	249-125	100 (10)
L = 110 mm	249-126	100 (10)
L = 250 mm	249-127	100 (10)

Test plug module; snaps together; 5 mm wide

gray	280-418	100 (25)

Spacer module; snaps together; 5 mm wide

gray	280-419	100 (25)

Test plug; with 500 mm cable; 2 mm Ø; max. 42 V

yellow	210-137	50

1-connector female plug; straight

gray	769-101	200

1-conductor female plug; angled

gray	769-101/022-000	200

2-conductor female plug

gray	769-121	100

Mini-WSB marking card; white; 10 strips with 10 markers/card; 5 mm wide markers

plain	248-501	5

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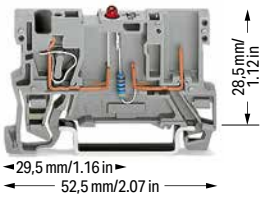
CAGE CLAMP®

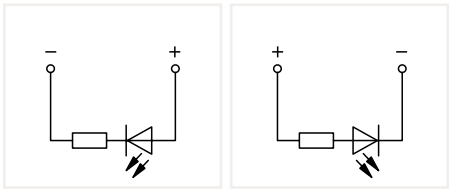
1-Conductor/1-Pin and 2-Pin LED Carrier Terminal Block X-COM®-SYSTEM
4 mm²; 769 Series

Technical Data

0.08 … 4 mm²	28 … 12 AWG
24 VDC	
I_F 0.025 A max.	
Terminal block width: 5 mm / 0.197 inch	
8 … 9 mm / 0.31 … 0.35 inch	



769-239/281-413 769-239/281-434



1-cond./1-pin LED carrier block

	Item No.	Pack. Unit
Anode, right side	769-239/281-413	100
Anode, left side	769-239/281-434	100

Accessories; item-specific

End and intermediate plate; 1.1 mm thick

orange	769-308	100 (25)
gray	769-307	100 (25)

Insulation stop; 0.08 … 0.2 mm² "s" (0.14 mm² "f-st"); 5 pcs/strip

white	769-470	200 (25)

Insulation stop; 0.25 … 0.5 mm²; 5 pcs/strip

light gray	769-471	200 (25)

Insulation stop; 0.75 … 1 mm²; 5 pcs/strip

dark gray	769-472	200 (25)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks

yellow	280-415	100 (25)

Test plug; with 500 mm cable; 2 mm Ø; max. 42 V

red	210-136	50

Accessories; 769 Series

Appropriate marking systems: Mini-WSB/Mini-WSB Inline

Coding pin; for coding female plugs

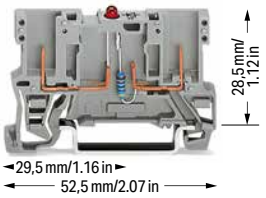
orange	769-435	100 (25)

Test plug; with 500 mm cable; 2 mm Ø; max. 42 V

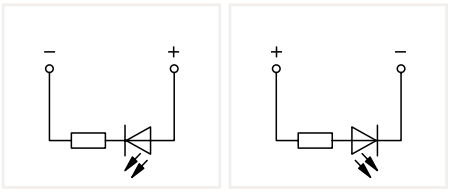
yellow	210-137	50

Technical Data

24 VDC
I_F 0.025 A max.
Terminal block width: 5 mm / 0.197 inch



769-229/281-413 769-229/281-434



2-pin LED carrier block

	Item No.	Pack. Unit
Anode, right side	769-229/281-413	100
Anode, left side	769-229/281-434	100

Accessories; item-specific

End and intermediate plate; 1.1 mm thick

orange	769-306	100 (25)
gray	769-305	100 (25)

1-connector female plug; straight

gray	769-101	200

1-conductor female plug; angled

gray	769-101/022-000	200

Note: 2-conductor female plugs cannot be used.

Please observe the application notes:
Insulation stop, page 346
Marking, from page 589

Approvals and corresponding ratings, visit www.wago.com

Accessories; 769 Series

Appropriate marking systems: Mini-WSB/Mini-WSB Inline

Mini-WSB marking card; white; 10 strips with 10 markers/card; 5 mm wide markers

plain	248-501	5

Mini-WSB marking card; plain; 10 strips with 10 markers/card; 5 mm wide markers

yellow	248-501/000-002	5
red	248-501/000-005	5
blue	248-501/000-006	5
gray	248-501/000-007	5
orange	248-501/000-012	5
light green	248-501/000-017	5
green	248-501/000-023	5
violet	248-501/000-024	5

Screwless end stop; for DIN-35 rail; 6 mm wide

gray	249-116	100 (25)

Screwless end stop; for DIN-35 rail; 10 mm wide

gray	249-117	50 (25)

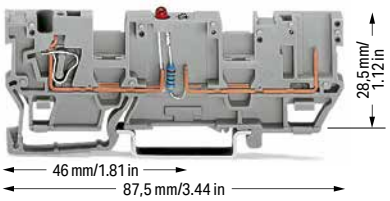
CAGE CLAMP®

1-Conductor/1-Pin and 2-Pin LED Carrier Terminal Block X-COM®-SYSTEM; with Two Jumper Positions

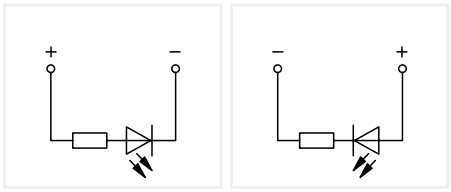
4 mm²; 769 Series

Technical Data

0.08 … 4 mm²	28 … 12 AWG
24 VDC	
I_F 0.025 A max.	
Terminal block width: 5 mm / 0.197 inch	
8 … 9 mm / 0.31 … 0.35 inch	



769-219/281-434 769-219/281-413



1-conductor/1-pin LED carrier terminal block; with two jumper positions

	Item No.	Pack. Unit
Anode, left side	769-219/281-434	50
Anode, right side	769-219/281-413	50

Accessories; item-specific

End and intermediate plate; 1.1 mm thick

orange	769-312	100 (25)
gray	769-311	100 (25)

Separator; oversized; 1.1 mm thick

orange	769-314	100 (25)

Insulation stop; 0.08 … 0.2 mm² "s" (0.14 mm² "f-st"); 5 pcs/strip

white	769-470	200 (25)

Insulation stop; 0.25 … 0.5 mm²; 5 pcs/strip

light gray	769-471	200 (25)

Insulation stop; 0.75 … 1 mm²; 5 pcs/strip

dark gray	769-472	200 (25)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks

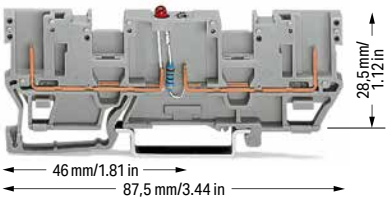
yellow	280-415	100 (25)

Test plug; with 500 mm cable; 2 mm Ø; max. 42 V

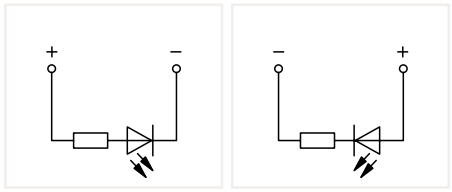
red	210-136	50

Technical Data

24 VDC
I_F 0.025 A max.
Terminal block width: 5 mm / 0.197 inch



769-209/281-434 769-209/281-413



2-pin LED carrier terminal block; with two jumper positions

	Item No.	Pack. Unit
Anode, left side	769-209/281-434	50
Anode, right side	769-209/281-413	50

Accessories; item-specific

End and intermediate plate; 1.1 mm thick

orange	769-310	100 (25)
gray	769-309	100 (25)

Separator; oversized; 1.1 mm thick

orange	769-313	100 (25)

Please observe the application notes:
Insulation stop, page 346
Jumpers, from page 348
Testing accessories, from page 344
Marking, from page 589

Approvals and corresponding ratings, visit www.wago.com

Accessories; 769 Series

Appropriate marking systems: Mini-WSB/Mini-WSB Inline

Coding pin; for coding female plugs

orange	769-435	100 (25)

Adjacent jumper; insulated; I_N = I_N terminal block

gray	280-402	200 (25)

Alternate jumper; insulated; I_N = I_N terminal block

gray	280-409	100 (25)

Staggered jumper; insulated; 5 mm wide; I_N 24 A

1 to 2	780-452	100 (25)
1 to 3	780-453	100 (25)
1 to 4	780-454	100 (25)
1 to 5	780-455	50 (25)
1 to 6	780-456	50 (25)
1 to 7	780-457	50 (25)
1 to 8	780-458	50 (25)

Push-in type wire jumper; insulated; 0.75 mm² conductor cross section; I_N 9 A

L = 60 mm	249-125	100 (10)
L = 110 mm	249-126	100 (10)
L = 250 mm	249-127	100 (10)

Test plug module; snaps together; 5 mm wide

gray	280-418	100 (25)

Spacer module; snaps together; 5 mm wide

gray	280-419	100 (25)

Test plug; with 500 mm cable; 2 mm Ø; max. 42 V

yellow	210-137	50

1-connector female plug; straight

gray	769-101	200

1-conductor female plug; angled

gray	769-101/022-000	200

2-conductor female plug

gray	769-121	100

Mini-WSB marking card; white; 10 strips with 10 markers/card; 5 mm wide markers

plain	248-501	5

6

CAGE CLAMP®

1-Conductor/1-Pin and 2-Pin Carrier Terminal Blocks and 1-Conductor Female Plugs X-COM®-SYSTEM

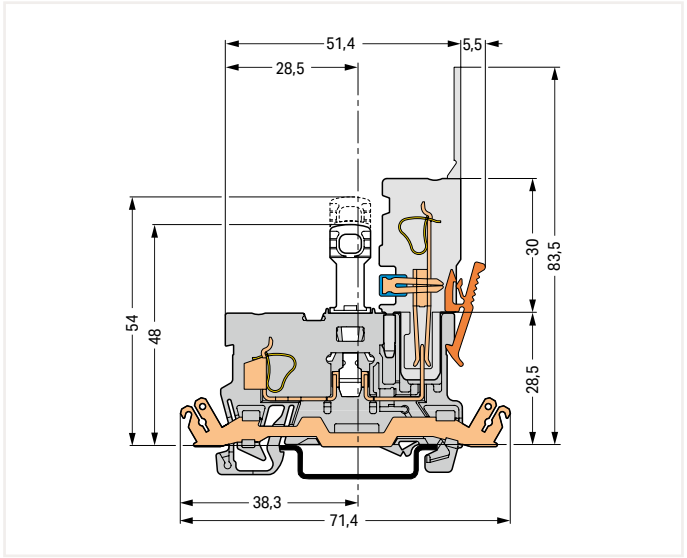
Assembly Types

1-conductor female plug
Disconnect carrier terminal blocks cannot be commoned.

1-conductor female plug
Disconnect carrier terminal blocks cannot be commoned.

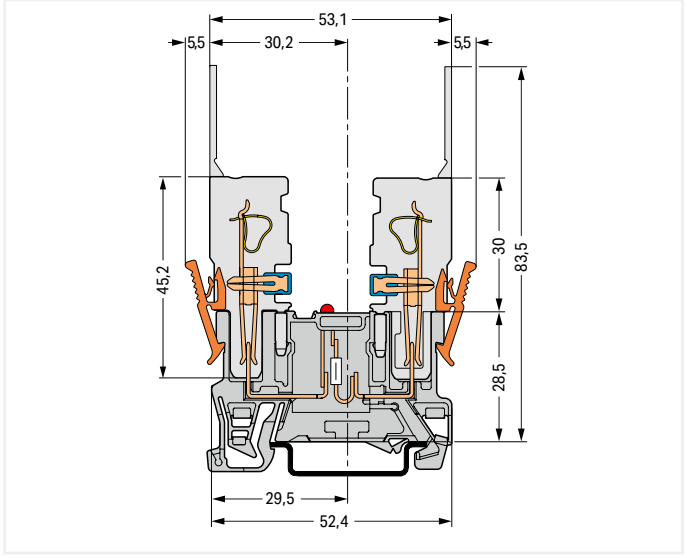
6

1-conductor female plug
Diode carrier terminal blocks cannot be commoned.



Disconnect carrier terminal block; with shield contact

1-conductor female plug
LED carrier terminal blocks cannot be commoned.

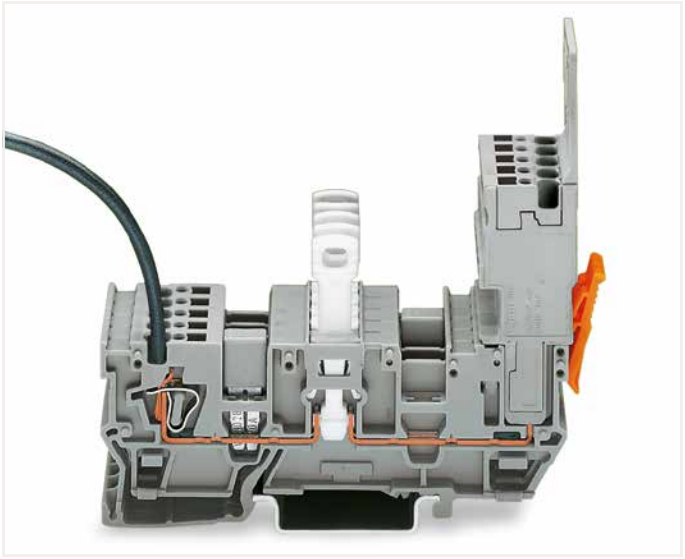


LED carrier terminal block

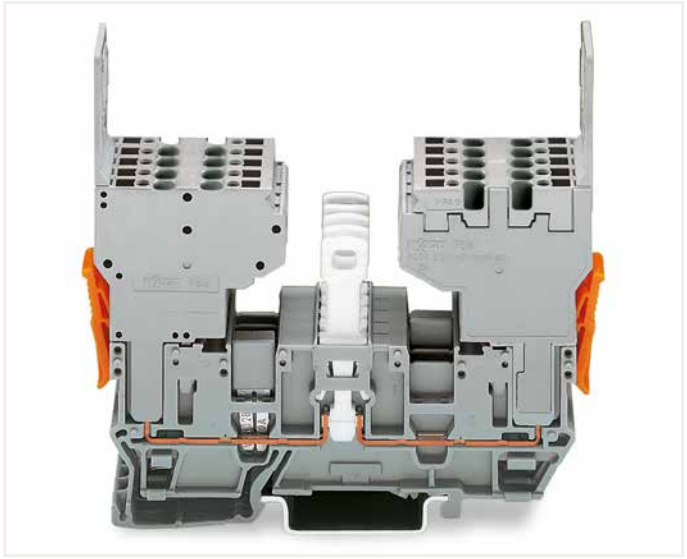
CAGE CLAMP®

1-Conductor/1-Pin and 2-Pin Carrier Terminal Blocks X-COM®-SYSTEM; with Two Jumper Positions and 1-/2-Conductor Female Plugs

Assembly Types

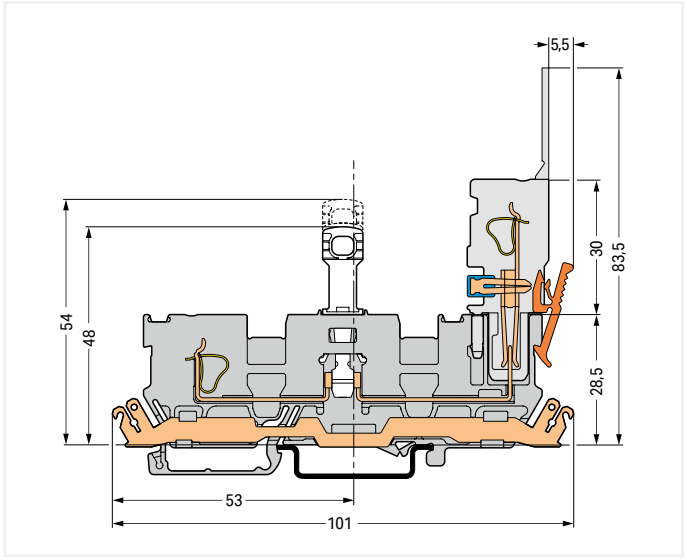


1-conductor female plug
Disconnect carrier terminal blocks can be commoned via 280 and 780 Series Jumpers and tested using a test plug adapter (280-4..).

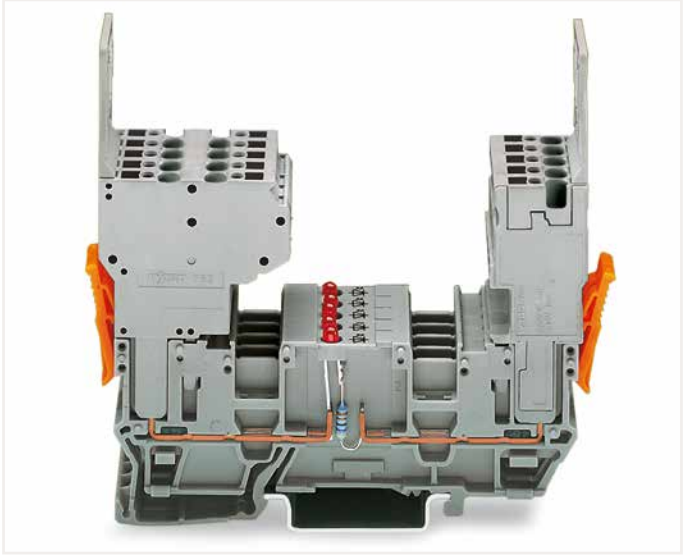


2-conductor female plug
Disconnect carrier terminal blocks can be commoned via 280 and 780 Series Jumpers.

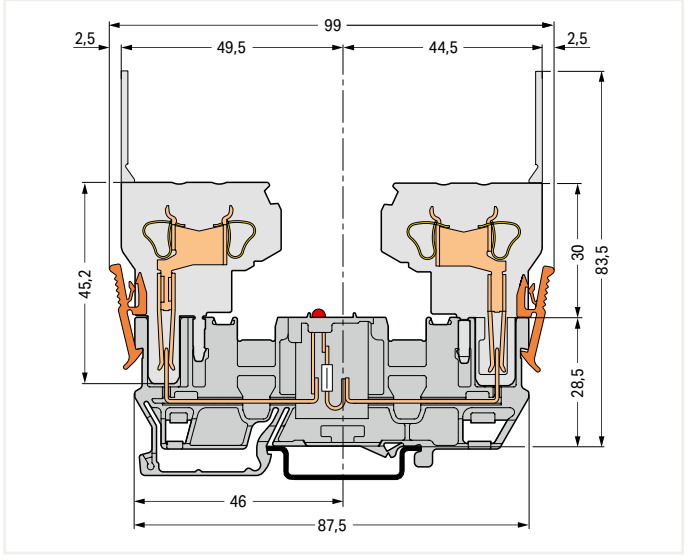
2-conductor female plug
Diode carrier terminal blocks can be commoned via 280 and 780 Series Jumpers and tested using a test plug adapter (280-4..).



Disconnect carrier terminal block; with shield contact



2-conductor and 1-conductor female plugs (may be reversed)
LED carrier terminal blocks can be commoned via 280 and 780 Series Jumpers and tested using a test plug adapter (280-4..).



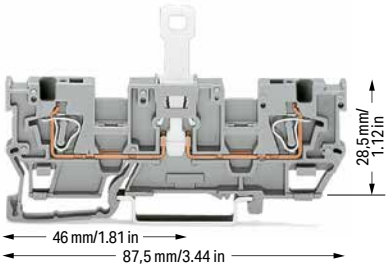
LED carrier terminal block

CAGE CLAMP®

1-Conductor/1-Conductor Pin Disconnect Carrier Terminal Block X-COM®-SYSTEM; with Two Jumper Positions

4 mm²; 769 Series

Technical Data	
0.08 … 4 mm²	28 … 12 AWG
400 V/6 kV/3 ❶	
I_N 16 A	
Terminal block width: 5 mm / 0.197 inch	
8 … 9 mm / 0.31 … 0.35 inch	



1-conductor/1-conductor pin disconnect carrier terminal block; with two jumper positions		
Color	Item No.	Pack. Unit
gray	769-242	50

1-conductor/1-conductor disconnect carrier terminal block; with shield contact		
gray	769-243 ❶	50

Accessories; 769 Series

Appropriate marking systems:
Mini-WSB/Mini-WSB Inline

End and intermediate plate; 1.1 mm thick

orange	769-318	100 (25)
gray	769-317	100 (25)

Separator plate; oversized; 1.1 mm thick

orange	769-319	100 (25)

Insulation stop; 0.08 … 0.2 mm² "s" (0.14 mm² "f-st"); 5 pcs/strip

white	769-470	200 (25)

Insulation stop; 0.25 … 0.5 mm²; 5 pcs/strip

light gray	769-471	200 (25)

Insulation stop; 0.75 … 1 mm²; 5 pcs/strip

dark gray	769-472	200 (25)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks

yellow	280-415	100 (25)

Adjacent jumper; insulated; I_N = I_N terminal block

gray	280-402	200 (25)

Alternate jumper; insulated; I_N = I_N terminal block

gray	280-409	100 (25)

❶ 400 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
250 V/4 kV/3 = Nominal voltage with shield contact
(see Section 14)

Please observe the application notes:
Insulation stop, page 346
Jumpers, from page 348
Testing accessories, from page 344
Marking, from page 589

Approvals and corresponding ratings,
visit www.wago.com

Accessories; 769 Series

Appropriate marking systems:
Mini-WSB/Mini-WSB Inline

Staggered jumper; insulated; 5 mm wide; I_N 24 A

1 to 2	780-452	100 (25)
1 to 3	780-453	100 (25)
1 to 4	780-454	100 (25)
1 to 5	780-455	50 (25)
1 to 6	780-456	50 (25)
1 to 7	780-457	50 (25)
1 to 8	780-458	50 (25)

Push-in type wire jumper; insulated; 0.75 mm² conductor cross section; I_N 9 A

L = 60 mm	249-125	100 (10)
L = 110 mm	249-126	100 (10)
L = 250 mm	249-127	100 (10)

Test plug module; snaps together; 5 mm wide

gray	280-418	100 (25)

Spacer module; snaps together; 5 mm wide

gray	280-419	100 (25)

Test plug; with 500 mm cable; 2 mm Ø; max. 42 V

red	210-136	50

Test plug; with 500 mm cable; 2 mm Ø; max. 42 V

yellow	210-137	50

Test plug adapter; 5 mm wide; for 210-137 Test Plug (2.3 mm Ø); for 1.5 … 4 mm² terminal blocks

gray	280-404	100 (25)

Disconnect lock; for disconnect tab used on disconnect terminal blocks (280/281 and 769 Series)

red	709-170	200 (25)

Mini-WSB marking card; white; 10 strips with 10 markers/card; 5 mm wide markers

plain	248-501	5

Accessories; 769 Series

Appropriate marking systems:
Mini-WSB/Mini-WSB Inline

Mini-WSB marking card; plain; 10 strips with 10 markers/card; 5 mm wide markers

yellow	248-501/000-002	5
red	248-501/000-005	5
blue	248-501/000-006	5
gray	248-501/000-007	5
orange	248-501/000-012	5
light green	248-501/000-017	5
green	248-501/000-023	5
violet	248-501/000-024	5

Screwless end stop; for DIN-35 rail; 6 mm wide

gray	249-116	100 (25)

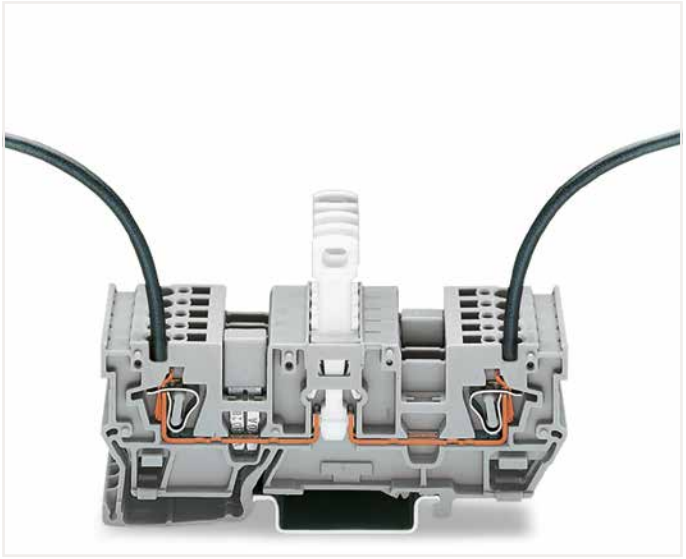
Screwless end stop; for DIN-35 rail; 10 mm wide

gray	249-117	50 (25)

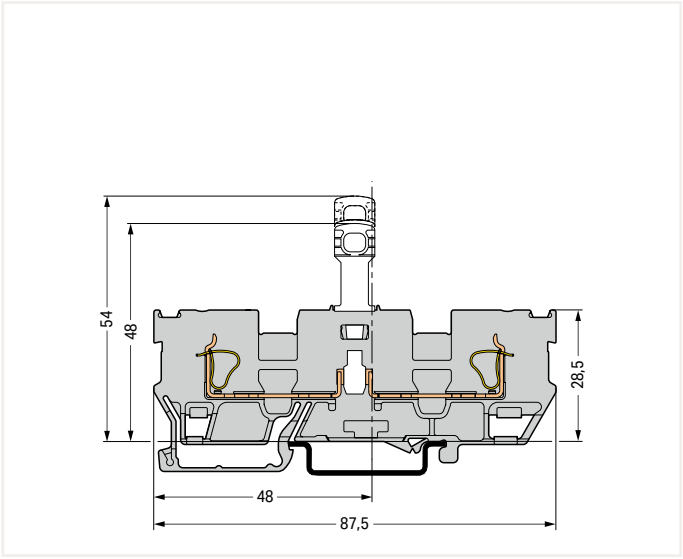
CAGE CLAMP®

1-Conductor/1-Conductor Pin Disconnect Carrier Terminal Blocks X-COM®-SYSTEM; with Two Jumper Positions

Assembly Types



Carrier terminal blocks can be commoned via 280 and 780 Series Jumpers and tested using a test plug adapter (280-4..).



Disconnect carrier terminal block

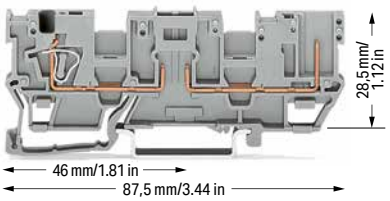
6

CAGE CLAMP®

1-Conductor/1-Pin Carrier Terminal Block and Carrier Terminal Block X-COM®-SYSTEM; for Pluggable Module (Fuses, Relays, Optocouplers, etc.)

4 mm²; 769 Series

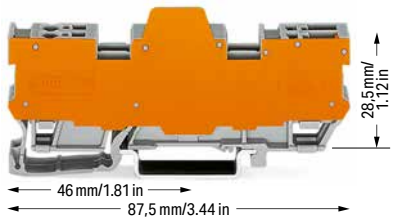
Technical Data	
0.08 … 4 mm²	28 … 12 AWG
400 V/6 kV/3 ❶	300 V, 20 A
I_N 16 A ❷	300 V, 20 A
Terminal block width: 5 mm / 0.197 inch	
8 … 9 mm / 0.31 … 0.35 inch	



1-conductor/1-pin carrier terminal block; with two jumper positions; gray

	Item No.	Pack. Unit
2-pole	769-181	50

Technical Data	
0.08 … 4 mm²	28 … 12 AWG
400 V/6 kV/3 ❶	300 V, 20 A
I_N 16 A ❷	300 V, 20 A
8 … 9 mm / 0.31 … 0.35 inch	



1-conductor/1-pin terminal block for pluggable modules; with two jumper positions; with orange separator plate; gray

	Item No.	Pack. Unit
4-pole; 11.1 mm wide	769-182/769-314	10
6-pole; 16.1 mm wide	769-183/769-314	5
8-pole; 21.1 mm wide	769-184/769-314	5
10-pole; 26.1 mm wide	769-185/769-314	5

❶ 400 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

❷ 16 A, 85°C upper temperature limit, current-carrying capacity curves upon request

Note: 2-conductor female plugs cannot be used.

Please observe the application notes:
Insulation stop, page 346
Jumpers, from page 348
Testing accessories, from page 344
Marking, from page 589

Approvals and corresponding ratings, visit www.wago.com

Accessories; 769 Series

Appropriate marking systems: Mini-WSB/Mini-WSB Inline

End and intermediate plate; 1.1 mm thick

orange	769-312	100 (25)
gray	769-311	100 (25)

Separator; oversized; 1.1 mm thick

orange	769-314	100 (25)

Insulation stop; 0.08 … 0.2 mm² "s" (0.14 mm² "f-st"); 5 pcs/strip

white	769-470	200 (25)

Insulation stop; 0.25 … 0.5 mm²; 5 pcs/strip

light gray	769-471	200 (25)

Insulation stop; 0.75 … 1 mm²; 5 pcs/strip

dark gray	769-472	200 (25)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks

yellow	280-415	100 (25)

Coding pin; for coding female plugs

orange	769-435	100 (25)

Adjacent jumper; insulated; I_N = I_N terminal block

gray	280-402	200 (25)

Alternate jumper; insulated; I_N = I_N terminal block

gray	280-409	100 (25)

Staggered jumper; insulated; 5 mm wide; I_N 24 A

1 to 2	780-452	100 (25)
1 to 3	780-453	100 (25)
1 to 4	780-454	100 (25)
1 to 5	780-455	50 (25)
1 to 6	780-456	50 (25)
1 to 7	780-457	50 (25)
1 to 8	780-458	50 (25)

Push-in type wire jumper; insulated; 0.75 mm² conductor cross section; I_N 9 A

L = 60 mm	249-125	100 (10)
L = 110 mm	249-126	100 (10)
L = 250 mm	249-127	100 (10)

Test plug module; snaps together; 5 mm wide

gray	280-418	100 (25)

Spacer module; snaps together; 5 mm wide

gray	280-419	100 (25)

Test plug; with 500 mm cable; 2 mm Ø; max. 42 V

red	210-136	50

Test plug; with 500 mm cable; 2 mm Ø; max. 42 V

yellow	210-137	50

Accessories; 769 Series

Appropriate marking systems: Mini-WSB/Mini-WSB Inline

Test plug adapter; 5 mm wide; for 210-137 Test Plug (2.3 mm Ø); for 1.5 … 4 mm² terminal blocks

gray	280-404	100 (25)

1-connector female plug; straight

gray	769-101	200

Mini-WSB marking card; white; 10 strips with 10 markers/card; 5 mm wide markers

plain	248-501	5

Mini-WSB marking card; plain; 10 strips with 10 markers/card; 5 mm wide markers

yellow	248-501/000-002	5
red	248-501/000-005	5
blue	248-501/000-006	5
gray	248-501/000-007	5
orange	248-501/000-012	5
light green	248-501/000-017	5
green	248-501/000-023	5
violet	248-501/000-024	5

Screwless end stop; for DIN-35 rail; 6 mm wide

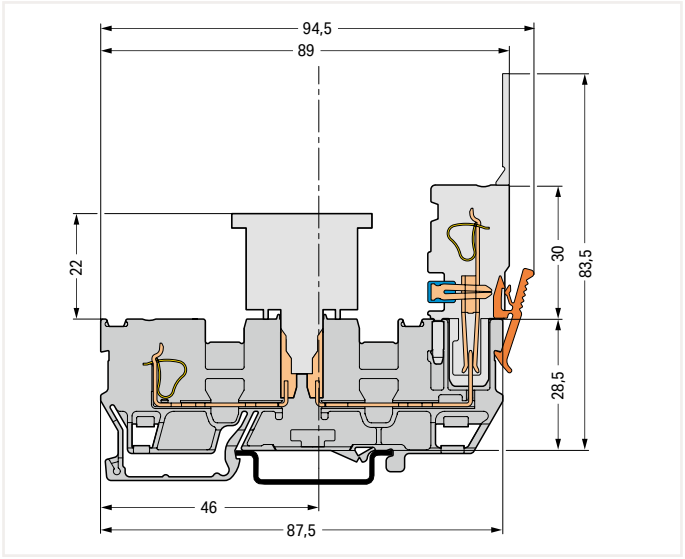
gray	249-116	100 (25)

Screwless end stop; for DIN-35 rail; 10 mm wide

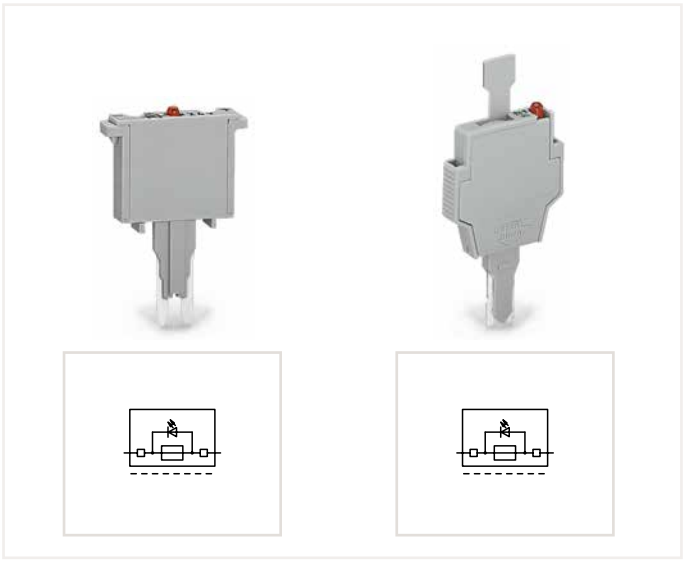
gray	249-117	50 (25)

CAGE CLAMP®

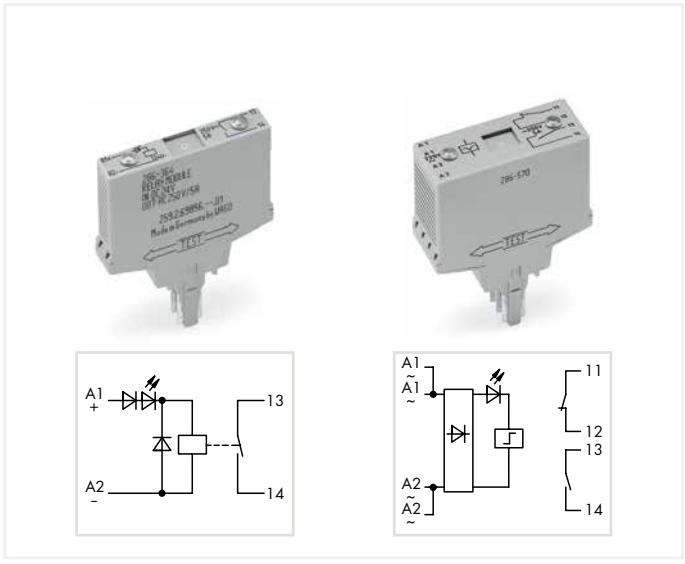
1-Conductor Female Plugs and Selection of Pluggable Modules X-COM®-SYSTEM
Assembly Types



Carrier terminal block



Selection of pluggable modules



Selection of pluggable modules

6

2-Pin Carrier Terminal Block and Carrier Terminal Block X-COM®-SYSTEM; for Pluggable Module (Fuses, Relays, Optocouplers, etc.)

769 Series

Technical Data	
400 V/6 kV/3 ❶	300 V, 20 A
I_N 16 A ❷	300 V, 20 A
Terminal block width: 5 mm / 0.197 inch	

Technical Data	
400 V/6 kV/3 ❶	300 V, 20 A
I_N 16 A ❷	300 V, 20 A

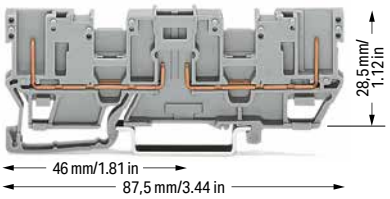
❶ 400 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

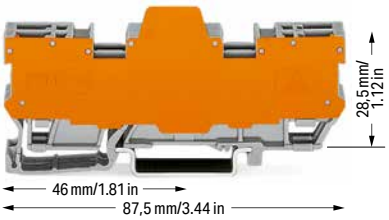
❷ 16 A, 85°C upper temperature limit, current-carrying capacity curves upon request

Note: 2-conductor female plugs cannot be used.

Please observe the application notes:
Jumpers, from page 348
Marking, from page 589

Approvals and corresponding ratings, visit www.wago.com





2-pin carrier terminal block; with two jumper positions; gray

	Item No.	Pack. Unit
2-pole	769-161	50

2-pin terminal block for pluggable modules; with two jumper positions; with orange separator plate; gray

	Item No.	Pack. Unit
4-pole; 11.1 mm wide	769-162/769-313	10
6-pole; 16.1 mm wide	769-163/769-313	5
8-pole; 21.1 mm wide	769-164/769-313	5
10-pole; 26.1 mm wide	769-165/769-313	5

Accessories; 769 Series

Appropriate marking systems: Mini-WSB/Mini-WSB Inline

End and intermediate plate; 1.1 mm thick

orange	769-310	100 (25)
gray	769-309	100 (25)

Separator; oversized; 1.1 mm thick

orange	769-313	100 (25)

Coding pin; for coding female plugs

orange	769-435	100 (25)

Adjacent jumper; insulated; I_N = I_N terminal block

gray	280-402	200 (25)

Alternate jumper; insulated; I_N = I_N terminal block

gray	280-409	100 (25)

Staggered jumper; insulated; 5 mm wide; I_N 24 A

1 to 2	780-452	100 (25)
1 to 3	780-453	100 (25)
1 to 4	780-454	100 (25)
1 to 5	780-455	50 (25)
1 to 6	780-456	50 (25)
1 to 7	780-457	50 (25)
1 to 8	780-458	50 (25)

Push-in type wire jumper; insulated; 0.75 mm² conductor cross section; I_N 9 A

L = 60 mm	249-125	100 (10)
L = 110 mm	249-126	100 (10)
L = 250 mm	249-127	100 (10)

Test plug; with 500 mm cable; 2 mm Ø; max. 42 V

yellow	210-137	50

1-connector female plug; straight

gray	769-101	200

1-conductor female plug; angled

gray	769-101/022-000	200

Mini-WSB marking card; white; 10 strips with 10 markers/card; 5 mm wide markers

plain	248-501	5

Mini-WSB marking card; plain; 10 strips with 10 markers/card; 5 mm wide markers

yellow	248-501/000-002	5
red	248-501/000-005	5
blue	248-501/000-006	5
gray	248-501/000-007	5
orange	248-501/000-012	5
light green	248-501/000-017	5
green	248-501/000-023	5
violet	248-501/000-024	5

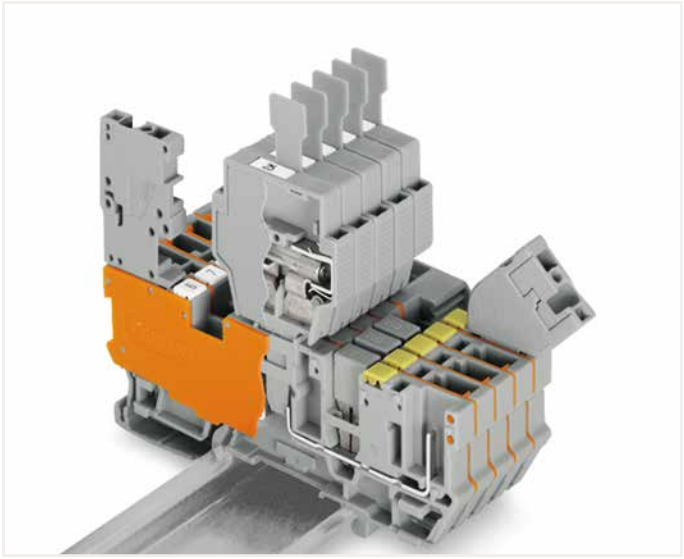
Screwless end stop; for DIN-35 rail; 6 mm wide

gray	249-116	100 (25)

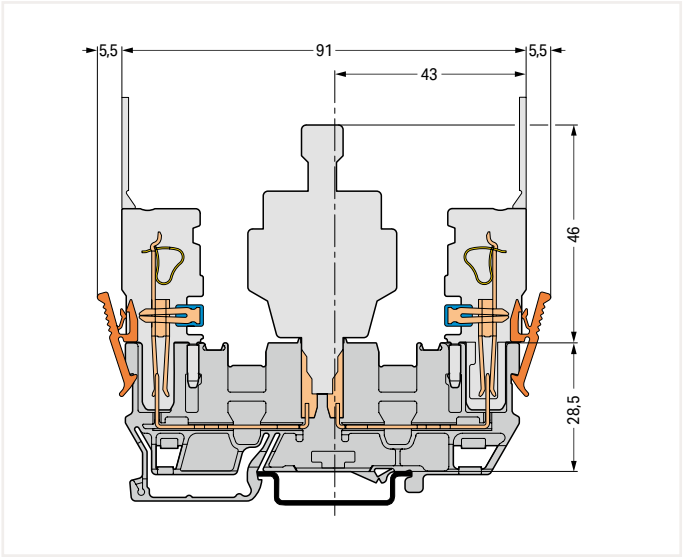
Screwless end stop; for DIN-35 rail; 10 mm wide

gray	249-117	50 (25)

1-Conductor Female Plugs and Selection of Pluggable Modules X-COM®-SYSTEM
Assembly Types

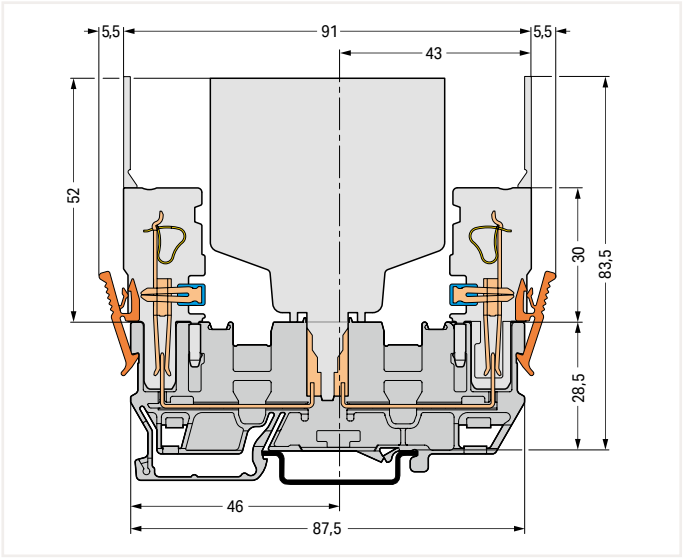


With 6 mm wide fuse plugs, only 1-pole female plugs can be used. Commoning is only possible using adjacent jumpers (280 Series) and push-in type wire jumpers.

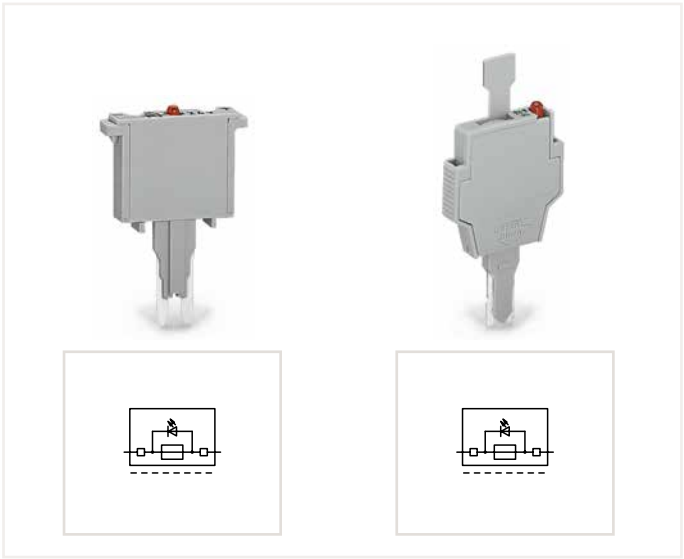


Carrier terminal block
For other dimensions, see carrier terminal block (769-151).

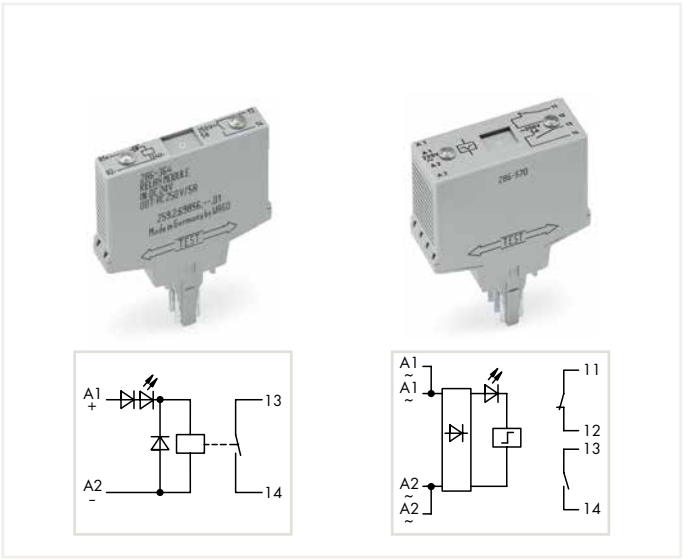
2-pin terminal block for pluggable modules; with orange separator plate



Carrier terminal block



Selection of pluggable modules



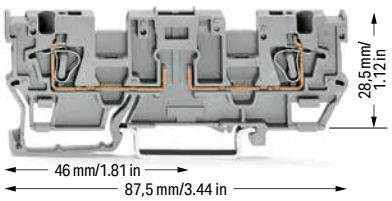
Selection of pluggable modules

CAGE CLAMP®

1-Conductor/1-Conductor Carrier Terminal Block and Carrier Terminal Block X-COM®-SYSTEM; for Pluggable Module (Fuses, Relays, Optocouplers, etc.)

4 mm²; 769 Series

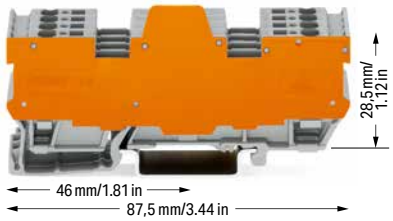
Technical Data	
0.08 … 4 mm²	28 … 12 AWG
400 V/6 kV/3 ❶	300 V, 20 A
I_N 16 A ❷	300 V, 20 A
Terminal block width: 5 mm / 0.197 inch	
8 … 9 mm / 0.31 … 0.35 inch	



1-conductor/1-conductor carrier terminal block; with two jumper positions; gray

	Item No.	Pack. Unit
○ 2-pole	769-191	50

Technical Data	
0.08 … 4 mm²	28 … 12 AWG
400 V/6 kV/3 ❶	300 V, 20 A
I_N 16 A ❷	300 V, 20 A
8 … 9 mm / 0.31 … 0.35 inch	



1-conductor/1-conductor terminal block for pluggable modules; with two jumper positions; with orange separator plate; gray

	Item No.	Pack. Unit
○ 4-pole; 11.1 mm wide	769-192/769-319	10
○ 6-pole; 16.1 mm wide	769-193/769-319	5
○ 8-pole; 21.1 mm wide	769-194/769-319	5
○ 10-pole; 26.1 mm wide	769-195/769-319	5

❶ 400 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

❷ 16 A, 85°C upper temperature limit, current-carrying capacity curves upon request

Note: 2-conductor female plugs cannot be used.

Please observe the application notes:
Insulation stop, page 346
Jumpers, from page 348
Testing accessories, from page 344
Marking, from page 589

Approvals and corresponding ratings, visit www.wago.com

Accessories; 769 Series

Appropriate marking systems: Mini-WSB/Mini-WSB Inline

End and intermediate plate; 1.1 mm thick

orange	769-316	100 (25)
gray	769-317	100 (25)

Separator; oversized; 1.1 mm thick

orange	769-319	100 (25)

Insulation stop; 0.08 … 0.2 mm² "s" (0.14 mm² "f-st"); 5 pcs/strip

white	769-470	200 (25)

Insulation stop; 0.25 … 0.5 mm²; 5 pcs/strip

light gray	769-471	200 (25)

Insulation stop; 0.75 … 1 mm²; 5 pcs/strip

dark gray	769-472	200 (25)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks

yellow	280-415	100 (25)

Adjacent jumper; insulated; I_N = I_N terminal block

gray	280-402	200 (25)

Alternate jumper; insulated; I_N = I_N terminal block

gray	280-409	100 (25)

Staggered jumper; insulated; 5 mm wide; I_N 24 A

1 to 2	780-452	100 (25)
1 to 3	780-453	100 (25)
1 to 4	780-454	100 (25)
1 to 5	780-455	50 (25)
1 to 6	780-456	50 (25)
1 to 7	780-457	50 (25)
1 to 8	780-458	50 (25)

Push-in type wire jumper; insulated; 0.75 mm² conductor cross section; I_N 9 A

L = 60 mm	249-125	100 (10)
L = 110 mm	249-126	100 (10)
L = 250 mm	249-127	100 (10)

Test plug; with 500 mm cable; 2 mm Ø; max. 42 V

red	210-136	50

Test plug; with 500 mm cable; 2 mm Ø; max. 42 V

yellow	210-137	50

Mini-WSB marking card; white; 10 strips with 10 markers/card; 5 mm wide markers

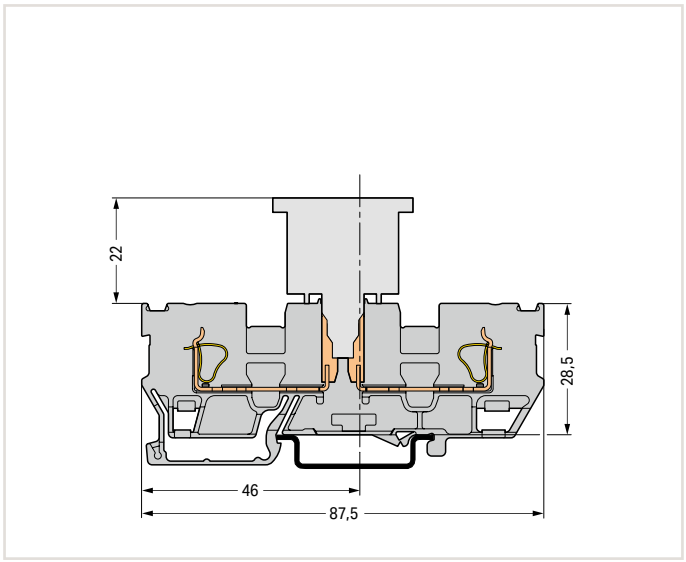
plain	248-501	6

Mini-WSB marking card; plain; 10 strips with 10 markers/card; 5 mm wide markers

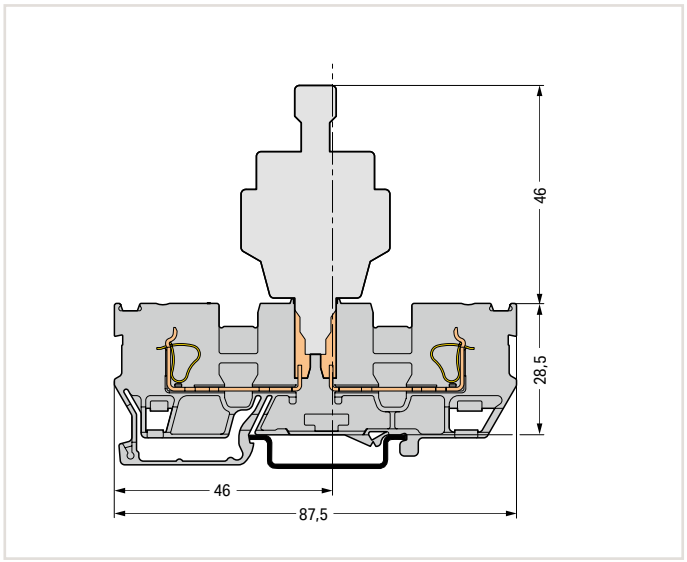
yellow	248-501/000-002	5
red	248-501/000-005	5
blue	248-501/000-006	5
gray	248-501/000-007	5
orange	248-501/000-012	5
light green	248-501/000-017	5
green	248-501/000-023	5
violet	248-501/000-024	5

CAGE CLAMP®

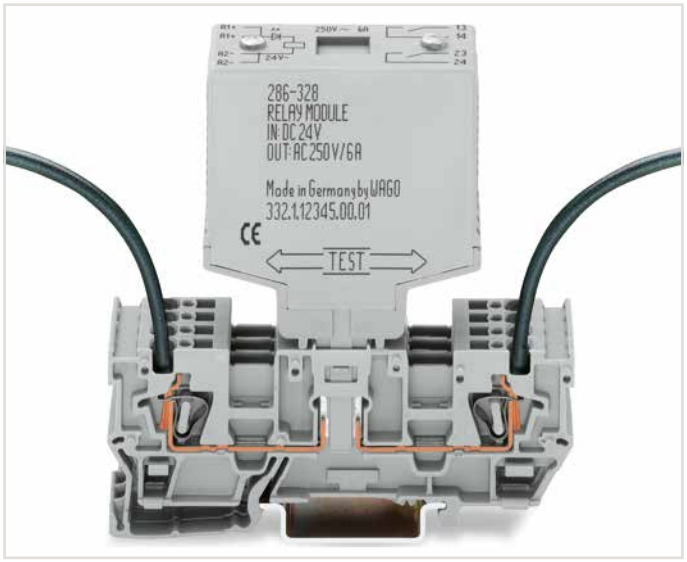
Selection of Pluggable Modules
Assembly Types



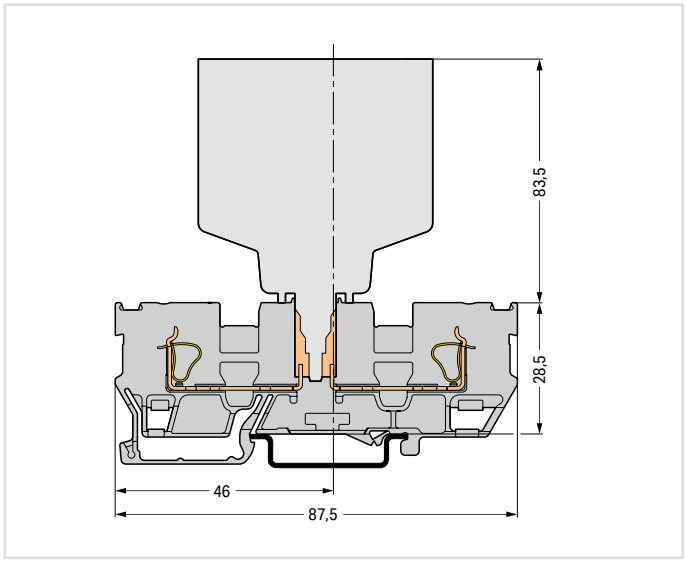
Carrier terminal block



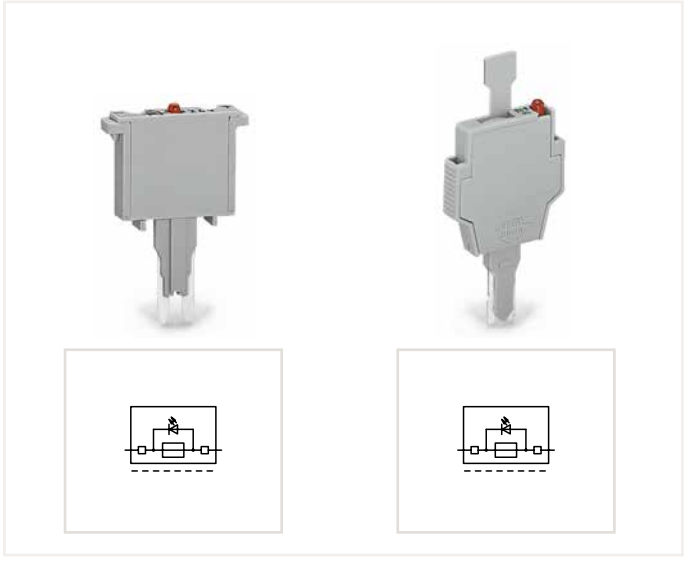
Carrier terminal block



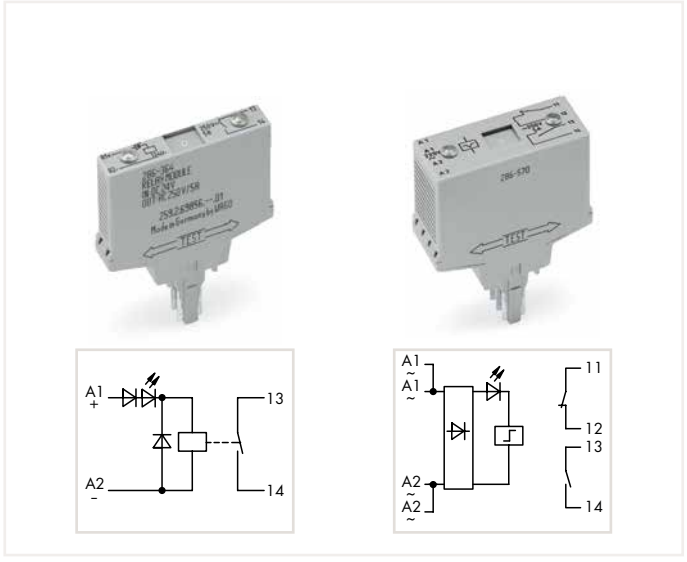
1-conductor/1-conductor carrier terminal block; with two jumper positions



Carrier terminal block



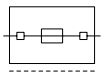
Selection of pluggable modules



Selection of pluggable modules

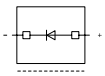
Fuse Plugs, Pluggable Diode and LED Modules

Fuse plug; with soldered miniature fuse; 5 mm wide; gray
Electrical ratings are given by the fuse.



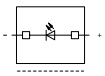
	Item No.	Pack. Unit
250 mA FF	280-850	100
500 mA FF	280-852	100
1 A FF	280-854	100
2 A FF	280-856	100

Diode module; with 1N4007 diode; 5 mm wide



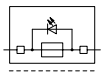
	Item No.	Pack. Unit
gray	280-801/281-411	100

LED module; with red LED; 5 mm wide; I_N 5.6 mA; I_F 25 mA; gray



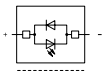
	Item No.	Pack. Unit
24 VDC	280-801/281-413	100
48 VDC	280-801/281-414	100

Fuse plug; with soldered miniature fuse; with additional indicator lamp; red LED; 15 … 30 VDC; 5 mm wide; gray
Electrical ratings are given by the fuse and blown fuse indication. Leakage current in case of a blown fuse: LED 5 … 20 mA



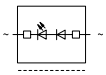
250 mA FF	280-850/281-413	100
500 mA FF	280-852/281-413	100
1 A FF	280-854/281-413	100
2 A FF	280-856/281-413	100

Diode module; with 1N4007 recovery diode; red LED; 5 mm wide; gray



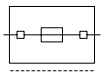
24 VDC	280-801/281-420	100
48 VDC	280-801/281-421	100

LED module; with red LED; 5 mm wide; I_N 5.6 mA; I_F 25 mA; gray



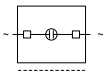
24 VAC/DC	280-801/281-415	100
48 VAC/VDC	280-801/281-416	100

Fuse plug with pull-tab; for 5 x 20 mm and 5 x 25 mm glass cartridge fuses; 6 mm wide
Electrical ratings are given by the fuse.



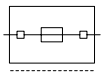
	281-511	50

Neon indicator module; 5 mm wide; I_N 0.5 mA; gray



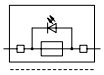
120 VAC/VDC	280-801/281-418	100
230 VAC/VDC	280-801/281-417	100

Fuse plug with pull-tab; for 5 x 20 mm and 5 x 25 mm glass cartridge fuses; with hole for one LED (for self-assembly); 6 mm wide; gray
Electrical ratings are given by the fuse and blown fuse indication.



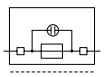
	281-512	50

Fuse plug with pull-tab; for 5 x 20 mm and 5 x 25 mm glass cartridge fuses; with LED; 24 VAC/DC; 6 mm wide
Electrical ratings are given by the fuse and blown fuse indication. Leakage current in case of a blown fuse: LED 5 … 20 mA



	281-512/281-501	50

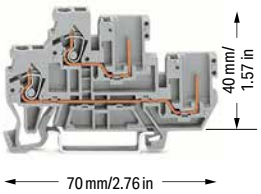
Fuse plug with pull-tab; for 5 x 20 mm and 5 x 25 mm glass cartridge fuses; with neon lamp; 120 VAC/DC; 6 mm wide
Electrical ratings are given by the fuse and blown fuse indication. Leakage current in case of a blown fuse: Neon lamp < 0.4 mA



	281-512/281-418	50
	281-512/281-417	50

1-Conductor/1-Pin Double-Deck Carrier Terminal Block X-COM®-SYSTEM
2.5 (4 “f-st”) mm²; 870 Series

Technical Data	
0.08 … 2.5 (4 “f-st”) mm² ❶	28 … 12 AWG
500 V/6 kV/3 ❷	300 V, 20 A
I_N 16 A	
Terminal block width: 5 mm / 0.197 inch	
6 … 7 mm / 0.24 … 0.28 inch	



1-conductor/1-pin double-deck carrier terminal block; Through/through terminal block; Gray housing

	Item No.	Pack. Unit
L/L	870-101	50
N/L	870-102	50
L/N	870-103	50

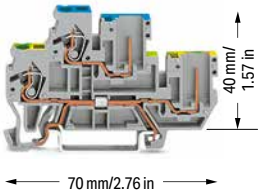
1-conductor/1-pin double-deck carrier terminal block; Through/through terminal block; Blue housing

	Item No.	Pack. Unit
N/N	870-104	50

Other terminal blocks with the same profile:

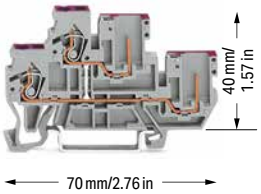
Through	870-501	Page 432

Technical Data	
0.08 … 2.5 (4 “f-st”) mm² ❶	28 … 12 AWG
500 V/6 kV/3 ❷	
I_N 16 A	
Terminal block width: 5 mm / 0.197 inch	
6 … 7 mm / 0.24 … 0.28 inch	



1-conductor/1-pin double-deck carrier terminal block; Ground conductor/through terminal block; Gray housing

	Item No.	Pack. Unit
PE/N	870-117	50
PE/L	870-127	50

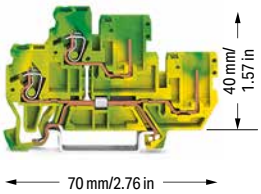


2-conductor/2-pin double-deck carrier terminal block; 2-conductor/2-pin through terminal block; internally commoned; Violet conductor entry; Gray housing

	Item No.	Pack. Unit
L	870-108	50

2-conductor/2-pin double-deck carrier terminal block; 2-conductor/2-pin through terminal block; internally commoned; Violet conductor entry; Blue housing

	Item No.	Pack. Unit
N	870-109	50



2-conductor/2-pin double-deck carrier block; 2-conductor/2-pin ground conductor block; internally commoned; Green-yellow housing

	Item No.	Pack. Unit
PE	870-107	50

❶ Max. insulation diameter: 4.4 mm

❷ 500 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

Note: 2-conductor female plugs cannot be used.

Please observe the application notes:
Insulation stop, page 346
Marking, from page 589

Approvals and corresponding ratings, visit www.wago.com

Accessories; 870 Series

Appropriate marking systems:
Mini-WSB/Mini-WSB Inline/WMB/WMB Inline

End and intermediate plate; 1 mm thick

orange	870-119	100 (25)
gray	870-118	100 (25)

Insulation stop; 0.08 … 0.2 mm² “s” (0.14 mm² “f-st”); 5 pcs/strip

white	280-470	200 (25)

Insulation stop; 0.25 … 0.5 mm²; 5 pcs/strip

light gray	280-471	200 (25)

Insulation stop; 0.75 … 1 mm²; 5 pcs/strip

dark gray	280-472	200 (25)

Coding pin; for coding female plugs

orange	769-435	100 (25)

Push-in type jumper bar; insulated; I_N 18 A; light gray

2-way	870-402	200 (25)
3-way	870-403	200 (25)
4-way	870-404	100 (25)
5-way	870-405	100 (25)
6-way	870-406	100 (25)
7-way	870-407	100 (25)
8-way	870-408	100 (25)
9-way	870-409	100 (25)
10-way	870-410	50 (25)

Push-in type jumper bar; insulated; I_N 18 A; light gray

1 to 3	870-433	200 (25)
1 to 4	870-434	200 (25)
1 to 5	870-435	100 (25)
1 to 6	870-436	100 (25)
1 to 7	870-437	100 (25)
1 to 8	870-438	100 (25)
1 to 9	870-439	100 (25)
1 to 10	870-440	50 (25)

Pin cover; with Mini-WSB marker slot

gray	769-438	100 (25)
orange	769-439	100 (25)

1-connector female plug; straight

gray	769-101	200

1-conductor female plug; angled

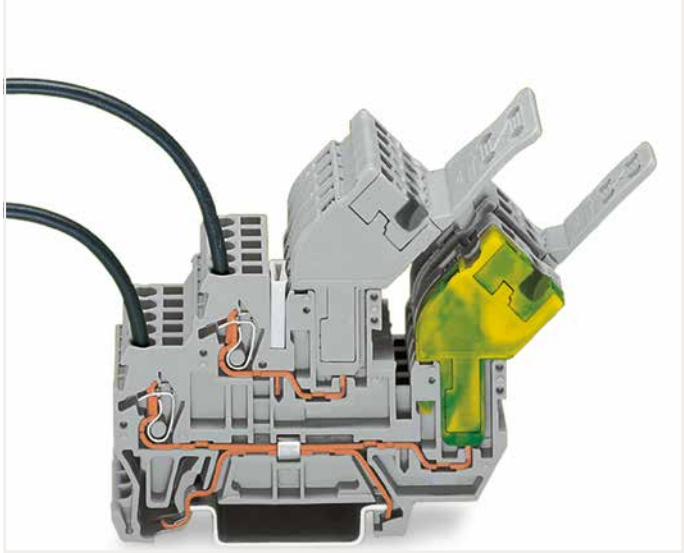
gray	769-101/022-000	200

CAGE CLAMP®

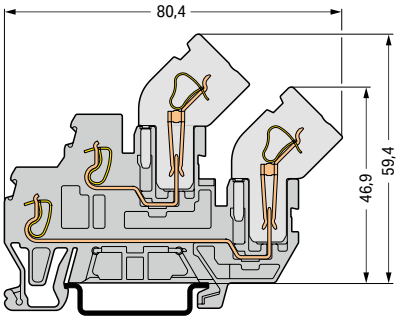
1-Conductor/1-Pin Double-Deck Carrier Terminal Blocks and 1-/2-Conductor Female Plugs X-COM®-SYSTEM

Assembly Types

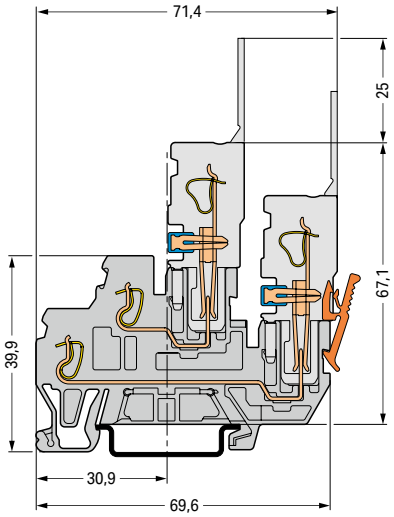
Commoning a double-deck through terminal block (870-501) with a 1-conductor/1-pin double-deck terminal block (870-101) via push-in type jumper bar.



1-conductor female plug; angled
Double-deck carrier terminal blocks can be commoned via 870 Series Push-In Type Jumper Bars.



Carrier terminal block



Carrier terminal block

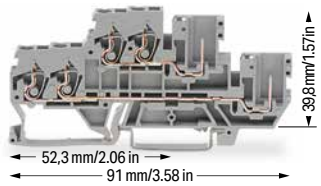
6

CAGE CLAMP®

2-Conductor/1-Pin Double-Deck Carrier Terminal Block X-COM®-SYSTEM
2.5 (4 “f-st”) mm²; 870 Series

Technical Data

0.08 … 2.5 (4 “f-st”) mm² ❶ | 28 … 12 AWG
500 V/6 kV/3 ❷
I_N 16 A
Terminal block width: 5 mm / 0.197 inch
6 … 7 mm / 0.24 … 0.28 inch



2-conductor/1-pin double-deck carrier terminal block; Through/through terminal block; Gray housing

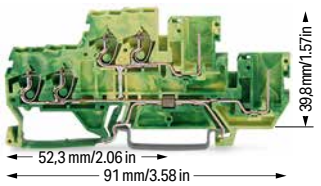
	Item No.	Pack. Unit
L/L	870-1131	40

4-conductor/2-pin double-deck carrier terminal block; 2-conductor/2-pin through terminal block; internally commoned; Violet conductor entry; Gray housing

	Item No.	Pack. Unit
L	870-1138	40

Technical Data

0.08 … 2.5 (4 “f-st”) mm² ❶ | 28 … 12 AWG
Terminal block width: 5 mm / 0.197 inch
6 … 7 mm / 0.24 … 0.28 inch



4-conductor/2-pin double-deck carrier block; 4-conductor/2-pin ground conductor block; internally commoned; Green-yellow housing

	Item No.	Pack. Unit
PE/N	870-1137	40

❶ Max. insulation diameter: 4.4 mm

❷ 500 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

Note: 2-conductor female plugs cannot be used.

Please observe the application notes:
Insulation stop, page 346
Marking, from page 589

Approvals and corresponding ratings, visit www.wago.com

Accessories; 870 Series

Appropriate marking systems:
Mini-WSB/Mini-WSB Inline/WMB/WMB Inline

End and intermediate plate; 1 mm thick

orange	870-1149	100 (25)
gray	870-1148	100 (25)

Insulation stop; 0.08 … 0.2 mm² “s” (0.14 mm² “f-st”); 5 pcs/strip

white	280-470	200 (25)

Insulation stop; 0.25 … 0.5 mm²; 5 pcs/strip

light gray	280-471	200 (25)

Insulation stop; 0.75 … 1 mm²; 5 pcs/strip

dark gray	280-472	200 (25)

Coding pin; for coding female plugs

orange	769-435	100 (25)

Push-in type jumper bar; insulated; I_N 18 A; light gray

2-way	870-402	200 (25)
3-way	870-403	200 (25)
4-way	870-404	100 (25)
5-way	870-405	100 (25)
6-way	870-406	100 (25)
7-way	870-407	100 (25)
8-way	870-408	100 (25)
9-way	870-409	100 (25)
10-way	870-410	50 (25)

Push-in type jumper bar; insulated; I_N 18 A; light gray

1 to 3	870-433	200 (25)
1 to 4	870-434	200 (25)
1 to 5	870-435	100 (25)
1 to 6	870-436	100 (25)
1 to 7	870-437	100 (25)
1 to 8	870-438	100 (25)
1 to 9	870-439	100 (25)
1 to 10	870-440	50 (25)

Pin cover; with Mini-WSB marker slot

gray	769-438	100 (25)
orange	769-439	100 (25)

1-connector female plug; straight

gray	769-101	200

1-conductor female plug; angled

gray	769-101/022-000	200

6

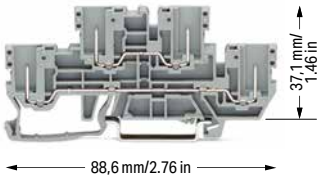
2-Pin/2-Pin Double-Deck Carrier Terminal Block X-COM®-SYSTEM
870 Series

Technical Data

500 V/6 kV/3 ❶

I_N 16 A

Terminal block width: 5 mm / 0.197 inch

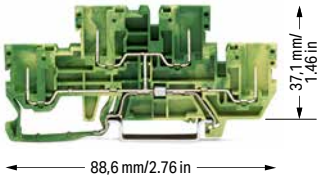


2-pin/2-pin double-deck carrier terminal block; Through/through terminal block; Gray housing

	Item No.	Pack. Unit
◯ L/L	870-151	50

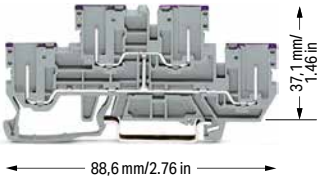
Technical Data

Terminal block width: 5 mm / 0.197 inch



4-pin double-deck carrier block; 4-pin ground conductor block; internally commoned; Green-yellow housing

	Item No.	Pack. Unit
◐ PE	870-157	50



4-pin double-deck carrier terminal block; 4-pin through terminal block; internally commoned; Violet conductor entry; Gray housing

	Item No.	Pack. Unit
◯ L	870-158	50

❶ 500 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

Note: 2-conductor female plugs cannot be used.

Approvals and corresponding ratings, visit www.wago.com

Accessories; 870 Series

Appropriate marking systems:
Mini-WSB/Mini-WSB Inline/WMB/WMB Inline

End and intermediate plate; 1 mm thick

orange	870-169	100 (25)
gray	870-168	100 (25)

Coding pin; for coding female plugs

orange	769-435	100 (25)

Push-in type jumper bar; insulated; I_N 18 A; light gray

2-way	870-402	200 (25)
3-way	870-403	200 (25)
4-way	870-404	100 (25)
5-way	870-405	100 (25)
6-way	870-406	100 (25)
7-way	870-407	100 (25)
8-way	870-408	100 (25)
9-way	870-409	100 (25)
10-way	870-410	50 (25)

Push-in type jumper bar; insulated; I_N 18 A; light gray

1 to 3	870-433	200 (25)
1 to 4	870-434	200 (25)
1 to 5	870-435	100 (25)
1 to 6	870-436	100 (25)
1 to 7	870-437	100 (25)
1 to 8	870-438	100 (25)
1 to 9	870-439	100 (25)
1 to 10	870-440	50 (25)

Pin cover; with Mini-WSB marker slot

gray	769-438	100 (25)
orange	769-439	100 (25)

1-connector female plug; straight

gray	769-101	200

1-conductor female plug; angled

gray	769-101/022-000	200

Mini-WSB marking card; white; 10 strips with 10 markers/card; 5 mm wide markers

plain	248-501	5

Mini-WSB marking card; plain; 10 strips with 10 markers/card; 5 mm wide markers

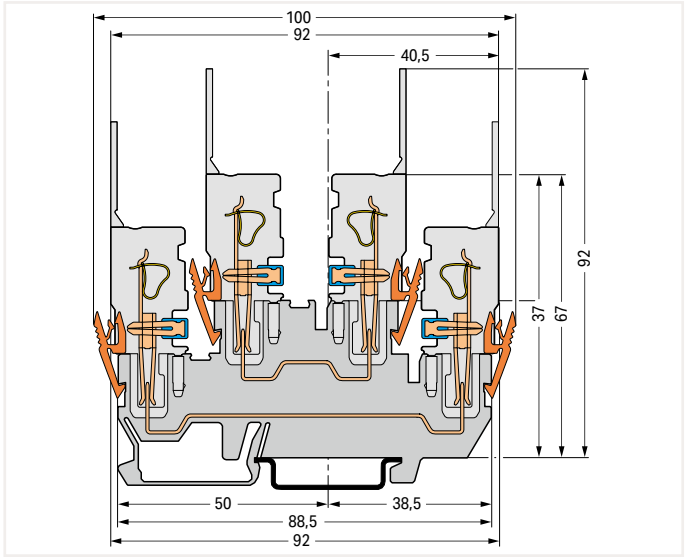
yellow	248-501/000-002	5
red	248-501/000-005	5
blue	248-501/000-006	5
gray	248-501/000-007	5
orange	248-501/000-012	5
light green	248-501/000-017	5
green	248-501/000-023	5
violet	248-501/000-024	5

6

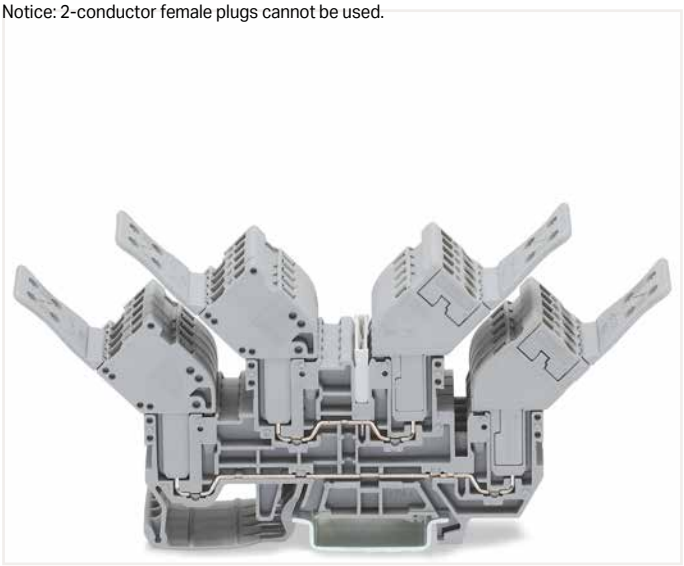
2-Pin/2-Pin Double-Deck Carrier Terminal Blocks and 1-Conductor Female Plugs X-COM®-SYSTEM

Assembly Types

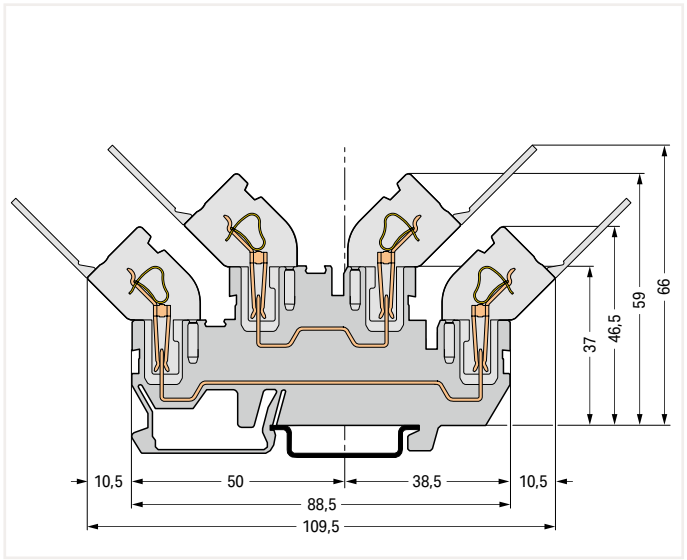
1-connector female plug; straight
Double-deck carrier terminal blocks can be commoned via 870 Series Push-In Type Jumper Bars.
Notice: 2-conductor female plugs cannot be used.



Carrier terminal block



1-conductor female plug; angled
Double-deck carrier terminal blocks can be commoned via 870 Series Push-In Type Jumper Bars.



Carrier terminal block

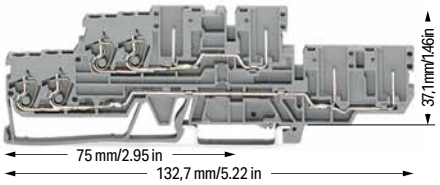
6

CAGE CLAMP®

2-Conductor/2-Pin Double-Deck Carrier Terminal Block X-COM®-SYSTEM
2.5 (4 “f-st”) mm²; 870 Series

Technical Data

0.08 … 2.5 (4 “f-st”) mm² ❶ | 28 … 12 AWG
500 V/6 kV/3 ❷
I_N 16 A
Terminal block width: 5 mm / 0.197 inch
6 … 7 mm / 0.24 … 0.28 inch

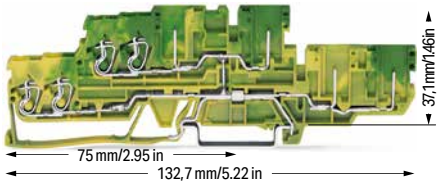


2-conductor/2-pin double-deck carrier terminal block; Through/through terminal block; Gray housing

	Item No.	Pack. Unit
L/L	870-131	40

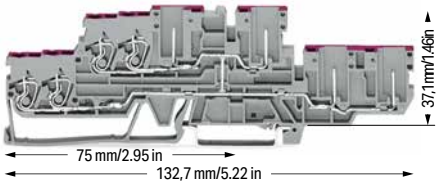
Technical Data

0.08 … 2.5 (4 “f-st”) mm² ❶ | 28 … 12 AWG
Terminal block width: 5 mm / 0.197 inch
6 … 7 mm / 0.24 … 0.28 inch



4-conductor/4-pin double-deck carrier block; 4-conductor/4-pin ground conductor block; internally commoned; Green-yellow housing

	Item No.	Pack. Unit
PE	870-137	40



4-conductor/4-pin double-deck carrier terminal block; 4-conductor/4-pin through terminal block; internally commoned; Violet conductor entry; Gray housing

	Item No.	Pack. Unit
L	870-138	40

❶ Max. insulation diameter: 4.4 mm

❷ 500 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

Note: 2- and 1-conductor angled female plugs cannot be used.

Please observe the application notes:
Insulation stop, page 346
Marking, from page 589

Approvals and corresponding ratings, visit www.wago.com

Accessories; 870 Series

Appropriate marking systems:
Mini-WSB/Mini-WSB Inline/WMB/WMB Inline

End and intermediate plate; 1 mm thick

orange	870-149	100 (25)
gray	870-148	100 (25)

Insulation stop; 0.08 … 0.2 mm² “s” (0.14 mm² “f-st”); 5 pcs/strip

white	280-470	200 (25)

Insulation stop; 0.25 … 0.5 mm²; 5 pcs/strip

light gray	280-471	200 (25)

Insulation stop; 0.75 … 1 mm²; 5 pcs/strip

dark gray	280-472	200 (25)

Coding pin; for coding female plugs

orange	769-435	100 (25)

Push-in type jumper bar; insulated; I_N 18 A; light gray

2-way	870-402	200 (25)
3-way	870-403	200 (25)
4-way	870-404	100 (25)
5-way	870-405	100 (25)
6-way	870-406	100 (25)
7-way	870-407	100 (25)
8-way	870-408	100 (25)
9-way	870-409	100 (25)
10-way	870-410	50 (25)

Push-in type jumper bar; insulated; I_N 18 A; light gray

1 to 3	870-433	200 (25)
1 to 4	870-434	200 (25)
1 to 5	870-435	100 (25)
1 to 6	870-436	100 (25)
1 to 7	870-437	100 (25)
1 to 8	870-438	100 (25)
1 to 9	870-439	100 (25)
1 to 10	870-440	50 (25)

Pin cover; with Mini-WSB marker slot

gray	769-438	100 (25)
orange	769-439	100 (25)

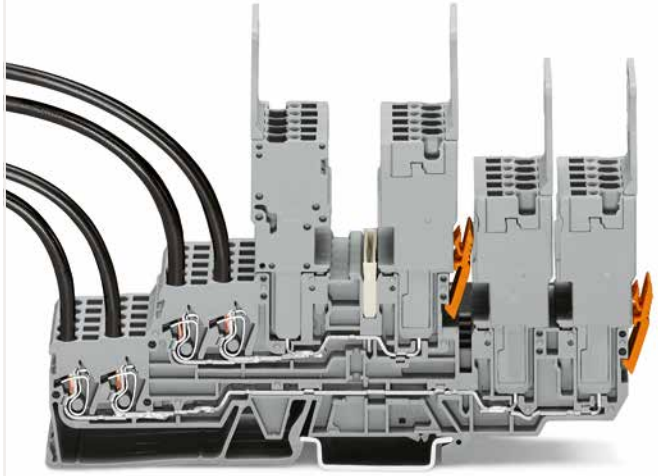
1-connector female plug; straight

gray	769-101	200

CAGE CLAMP®

2-Conductor/2-Pin Double-Deck Carrier Terminal Blocks and 1-Conductor Female Plugs X-COM®-SYSTEM

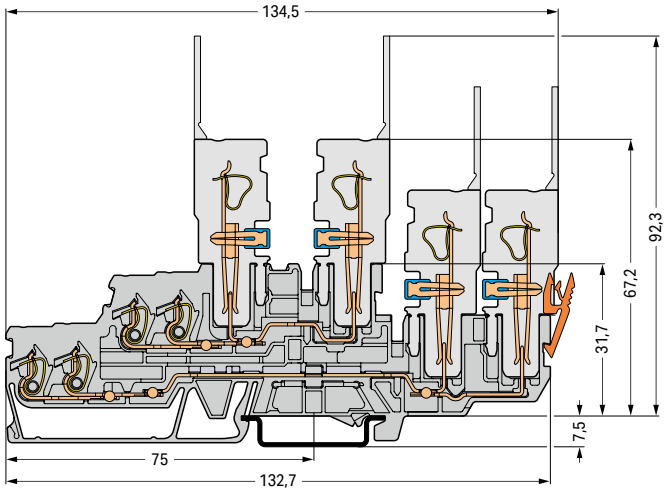
Assembly Types



1-connector female plug; straight

Double-deck carrier terminal blocks can be commoned via 870 Series Push-In Type Jumper Bars.

Notice: Female plugs must be arranged in the opposite direction on the upper deck.
2-conductor female plugs and angled 1-conductor female plugs cannot be used.

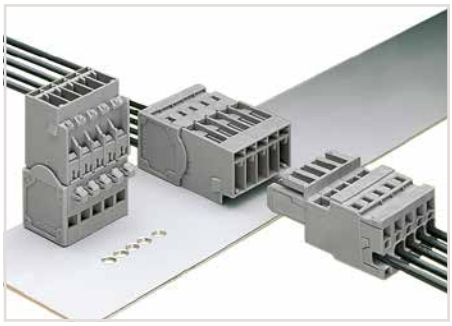


Carrier terminal block

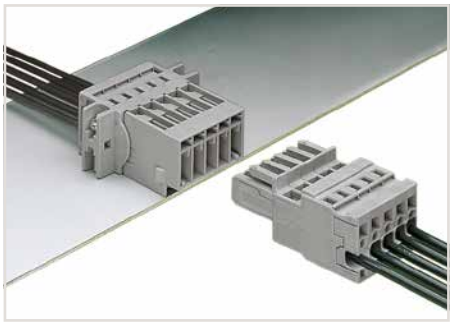
6

Male Connectors, Headers and Female Plugs X-COM®-SYSTEM
769 Series
Description and Installation

Male connector; with CAGE CLAMP® connection
1-connector female plug; straight



Male connector; with CAGE CLAMP® connection and snap-in mounting feet
1-connector female plug; straight



Male connector; with CAGE CLAMP® and mounting flanges
1-connector female plug; straight

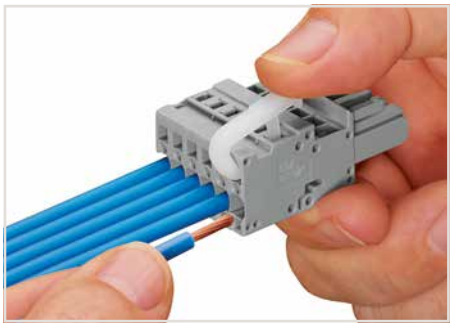
Insert a male connector with snap-in flanges (769-604/005-000) into the cutout.

Male connector; with snap-in flanges
Tool-free assembly

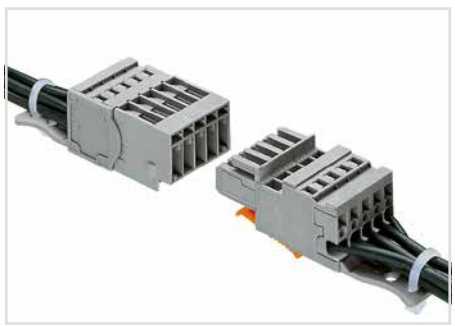
Male connector; with snap-in flanges
Tool-free assembly

Operating tool
Inserting a conductor – side-entry wiring (example shows a female plug).
With ferruled conductors, it is necessary to use a terminal block one size smaller than the conductor's nominal cross section.

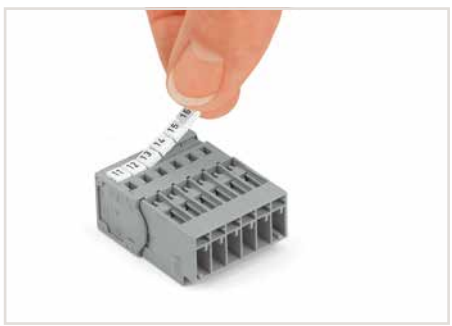
Operating tool
Inserting a conductor via operating tool (example shows a male connector).



Operating lever
Conductor termination – side-entry wiring (example shows a female plug)



Strain relief plates can be snapped into both male connector and female plug.



Labeling a male connector with CAGE CLAMP® connection via Mini-WSB Quick Markers.

Labeling a female plug with CAGE CLAMP® connection via Mini-WSB Quick Markers.

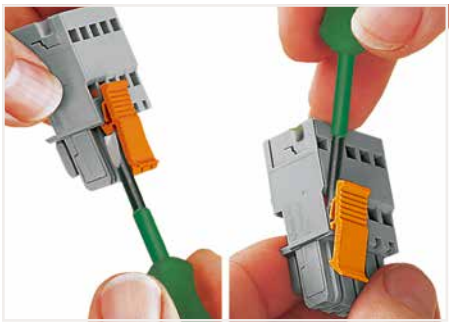
CAGE CLAMP® terminates the following copper conductors:
solid

stranded

fine-stranded, also with tinned single strands

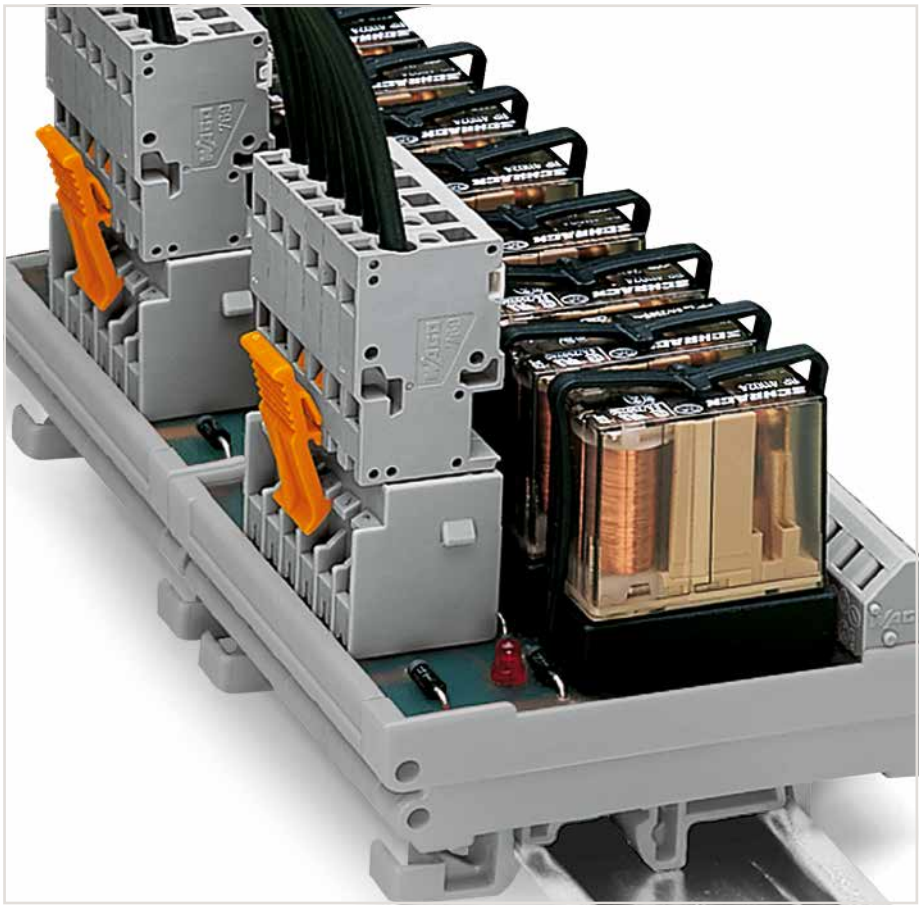
For aluminum conductors, see notes in Section 14. With ferruled conductors, it is necessary to use a terminal block one size smaller than the conductor's nominal cross section.

Coding a female plug by removing coding finger(s) via cutting tool. Do not remove the first and last coding fingers or use an additional locking lever.

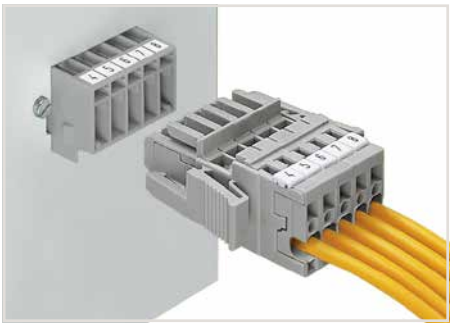


Locking/releasing a lever.

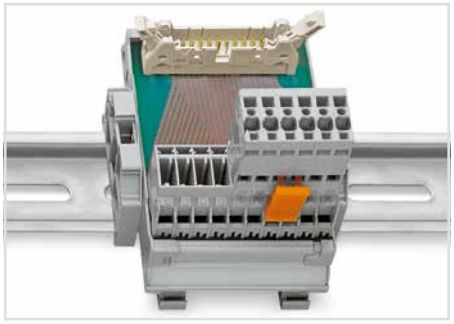
Commoning a 1-conductor female plug via miniature adjacent jumpers.



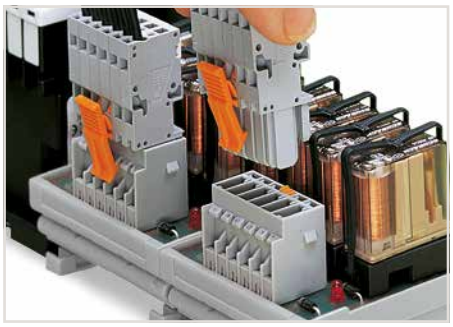
Note: Female plugs used according to the regulations must not be connected/disconnected when live or under load.



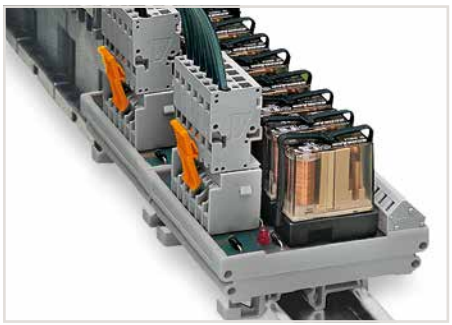
Male header and 1-conductor female plug; with lateral locking levers



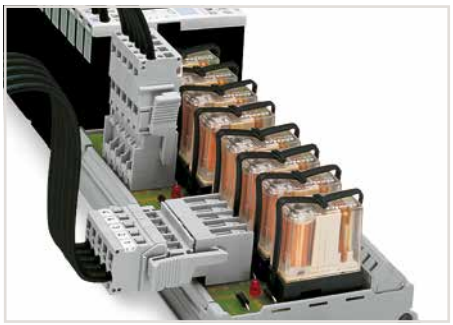
Male header; with solder pins for PCBs



Pluggable PCB connection
Connection to a relay module inside the control cabinet



Male header; with straight solder pins and 1-conductor female plug (picture shows a relay module)



Male header; with solder pins
Integrating PCB components into the system wiring.

fine-stranded,
tip-bonded

fine-stranded,
with ferrule
(gastight crimped)

fine-stranded,
with pin terminal
(gastight crimped)

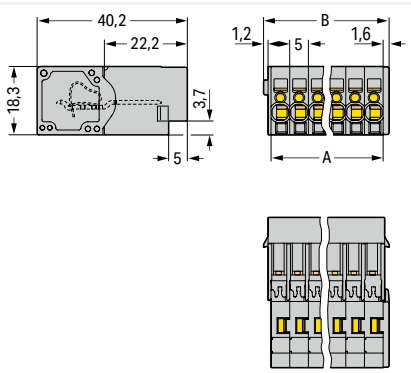
Male Connector X-COM®-SYSTEM; with CAGE CLAMP® Connection; 5 mm Pin Spacing
4 mm²; 769 Series

Technical Data	
Pin spacing: 5 mm / 0.197 inch	
0.08 … 4 mm²	28 … 12 AWG
500 V/6 kV/3 ❶	300 V, 20 A
I_N 32 A ❷	300 V, 20 A
8 … 9 mm / 0.31 … 0.35 inch	

Technical Data	
Pin spacing: 5 mm / 0.197 inch	
0.08 … 4 mm²	28 … 12 AWG
500 V/6 kV/3 ❶	300 V, 20 A
I_N 32 A ❷	300 V, 20 A
8 … 9 mm / 0.31 … 0.35 inch	

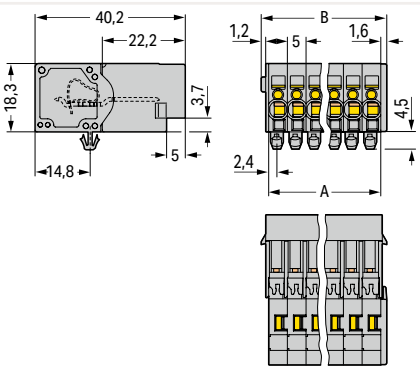
Technical Data	
Pin spacing: 5 mm / 0.197 inch	
0.08 … 4 mm²	28 … 12 AWG
500 V/6 kV/3 ❶	300 V, 20 A
I_N 32 A ❷	300 V, 20 A
8 … 9 mm / 0.31 … 0.35 inch	

Dimensions (in mm)



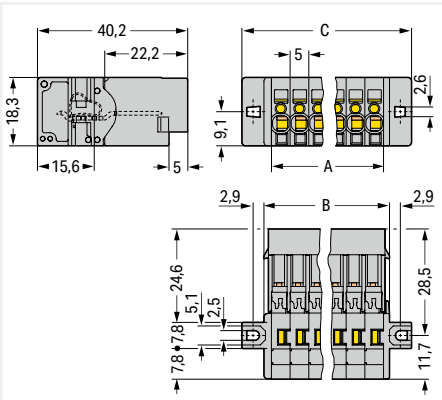
B = A + 3.6 mm
A = pole no. x pin spacing

Dimensions (in mm)



B = A + 3.6 mm
A = pole no. x pin spacing

Dimensions (in mm)



C = A + 15.4 mm
B = A + 3.6 mm
A = pole no. x pin spacing

Male connector; with CAGE CLAMP® connection; for flying leads; gray

Pole No.	Item No.	Pack. Unit
2	769-602	100
3	769-603	100
4	769-604	100
5	769-605	50
6	769-606	50
7	769-607	25
8	769-608	25
9	769-609	25
10	769-610	25
11	769-611	25
12	769-612	25
13	769-613	25
14	769-614	15
15	769-615	10

Male connector; with CAGE CLAMP® connection and snap-in mounting feet; for 0.6 … 1.2 mm plate thickness; 3.5 mm Ø mounting holes; with mounting adapter (209-137) for DIN-35 rail; gray

Pole No.	Item No.	Pack. Unit
2	769-602/001-000	100
3	769-603/001-000	100
4	769-604/001-000	50
5	769-605/001-000	50
6	769-606/001-000	50
7	769-607/001-000	25
8	769-608/001-000	25
9	769-609/001-000	25
10	769-610/001-000	25
11	769-611/001-000	25
12	769-612/001-000	25
13	769-613/001-000	15
14	769-614/001-000	15
15	769-615/001-000	20

Male connector; with CAGE CLAMP® connection and mounting flanges; for screw or similar mounting types; for vertical or horizontal mounting; gray

Pole No.	Item No.	Pack. Unit
2	769-602/002-000	100
3	769-603/002-000	50
4	769-604/002-000	50
5	769-605/002-000	50
6	769-606/002-000	50
7	769-607/002-000	25
8	769-608/002-000	25
9	769-609/002-000	25
10	769-610/002-000	25
11	769-611/002-000	25
12	769-612/002-000	25
13	769-613/002-000	15
14	769-614/002-000	10
15	769-615/002-000	20

Accessories; item-specific

Strain relief plate; gray

2- … 3-pole	769-411	100 (25)
4- … 5-pole	769-412	100 (25)
6- … 9-pole	769-413	100 (25)
10- … 15-pole	769-414	100 (25)

Accessories; item-specific

Mounting adapter; for DIN-35 rail; can be used as end plate; 6.5 mm wide

gray	209-137	25

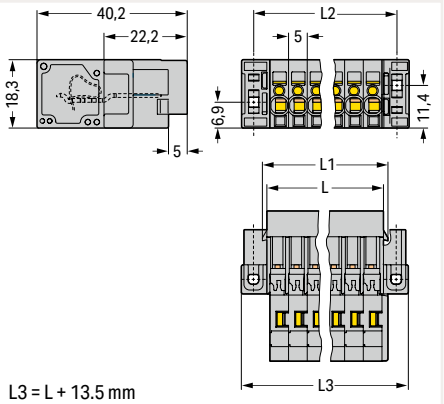
Accessories; item-specific

Mounting screw (M2.5 x 16) and hexagon nut (M2.5)

	769-499	100 (25)

Technical Data	
Pin spacing: 5 mm / 0.197 inch	
0.08 … 4 mm²	28 … 12 AWG
500 V/6 kV/3 ❶	300 V, 20 A
I_N 32 A ❷	300 V, 20 A
8 … 9 mm / 0.31 … 0.35 inch	

Dimensions (in mm)



L3 = L + 13.5 mm
L2 = L + 7 mm
L1 = L + 2.4 mm
L = (pole no. - 1) x pin spacing + 6.2 mm

Male connector; with CAGE CLAMP® connection and feedthrough flanges; for screw or similar mounting types; for vertical or horizontal mounting; gray

Pole No.	Item No.	Pack. Unit
2	769-602/004-000	100
3	769-603/004-000	50
4	769-604/004-000	25
5	769-605/004-000	25
6	769-606/004-000	25
7	769-607/004-000	25
8	769-608/004-000	25
9	769-609/004-000	25
10	769-610/004-000	25
11	769-611/004-000	25
12	769-612/004-000	15
13	769-613/004-000	15
14	769-614/004-000	10
15	769-615/004-000	10

❶ 500 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

❷ Current-carrying capacity curve on page 419 and upon request

Approvals and corresponding ratings, visit www.wago.com

Accessories; for male connectors

Appropriate marking systems:
Mini-WSB/Mini-WSB Inline

1-connector female plug; straight

gray	769-102	100

1-conductor female plug; with lateral locking levers

gray	769-102/021-000	50

2-conductor female plug

gray	769-122	50

Coding pin; for coding female plugs

orange	769-435	100 (25)

Operating tool; for female plugs and male connectors with CAGE CLAMP® connection

210-490	1

Operating lever; loose; for male and female connectors with CAGE CLAMP® connection

769-434	2000 (100)

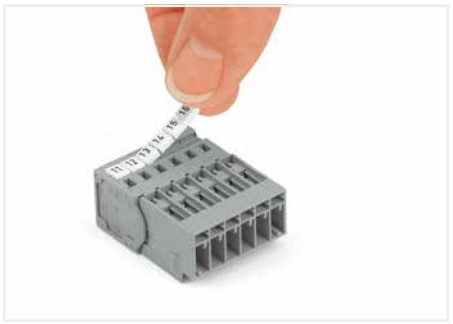
Mini-WSB marking card; white; 10 strips with 10 markers/card; 5 mm wide markers

plain	248-501	5

Mini-WSB marking card; plain; 10 strips with 10 markers/card; 5 mm wide markers

yellow	248-501/000-002	5
red	248-501/000-005	5
blue	248-501/000-006	5
gray	248-501/000-007	5
orange	248-501/000-012	5
light green	248-501/000-017	5
green	248-501/000-023	5
violet	248-501/000-024	5

Male connector; with CAGE CLAMP® connection
1-connector female plug; straight



Labeling a male connector with CAGE CLAMP® connection via Mini-WSB Quick Markers.

6

CAGE CLAMP®

Male Connector X-COM®-SYSTEM; with CAGE CLAMP® Connection and Snap-In Flanges; 5 mm Pin Spacing

4 mm²; 769 Series

Technical Data	
Pin spacing: 5 mm / 0.197 inch	
0.08 … 4 mm²	28 … 12 AWG
500 V/6 kV/3 ❶	300 V, 20 A
I_N 32 A ❷	300 V, 20 A
8 … 9 mm / 0.31 … 0.35 inch	

Dimensions (in mm)

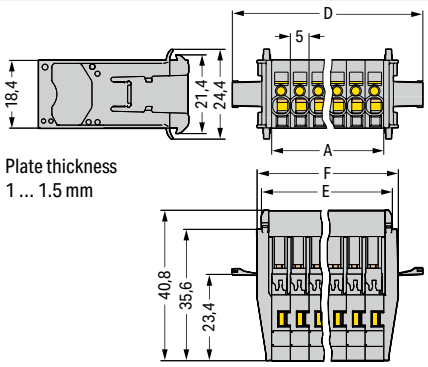


Plate thickness
1 … 1.5 mm

F = A + 8.1 mm
E = A + 4.9 mm
D = A + 21.3 mm
A = pole no. x pin spacing

Male connector; with CAGE CLAMP® connection and snap-in flanges; for flying leads; gray		
Pole No.	Item No.	Pack. Unit
2	769-602/005-000	50
3	769-603/005-000	25
4	769-604/005-000	25
5	769-605/005-000	25
6	769-606/005-000	25
7	769-607/005-000	25
8	769-608/005-000	20
9	769-609/005-000	20
10	769-610/005-000	20
11	769-611/005-000	15
12	769-612/005-000	15
13	769-613/005-000	15
14	769-614/005-000	10
15	769-615/005-000	10

❶ 500 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

❷ Current-carrying capacity curves upon request

Approvals and corresponding ratings, visit www.wago.com

Accessories; for male connectors

Appropriate marking systems:
Mini-WSB/Mini-WSB Inline

1-connector female plug; straight

gray | 769-102 | 100

1-conductor female plug; with lateral locking levers

gray | 769-102/021-000 | 50

2-conductor female plug

gray | 769-122 | 50

Coding pin; for coding female plugs

orange | 769-435 | 100 (25)

Operating tool; for female plugs and male connectors with CAGE CLAMP® connection

210-490 | 1

Operating lever; loose; for male and female connectors with CAGE CLAMP® connection

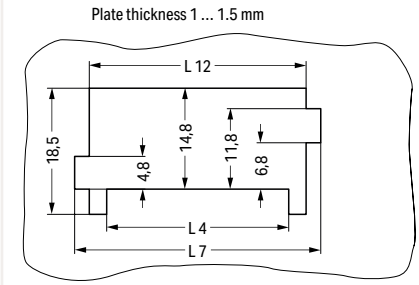
769-434 | 2000 (100)

Mini-WSB marking card; white; 10 strips with 10 markers/card; 5 mm wide markers

plain | 248-501 | 5

Mini-WSB marking card; plain; 10 strips with 10 markers/card; 5 mm wide markers

yellow	248-501/000-002	5
red	248-501/000-005	5
blue	248-501/000-006	5
gray	248-501/000-007	5
orange	248-501/000-012	5
light green	248-501/000-017	5
green	248-501/000-023	5
violet	248-501/000-024	5



L12 = pole no. x pin spacing + 6.8 mm
L4 = pole no. x pin spacing + 1.7 mm
L7 = L4 + 9.4 mm

Cutout
Male connector with CAGE CLAMP® connection (769-6xx/005-000) and snap-in flanges

Insert a male connector with snap-in flanges (769-604/005-000) into the cutout.

Male connector; with snap-in flanges
Tool-free assembly

Male connector; with snap-in flanges
Tool-free assembly

6

CAGE CLAMP®

Male Connector X-COM®-SYSTEM; with CAGE CLAMP® Connection and Snap-In Flanges; 5 mm Pin Spacing

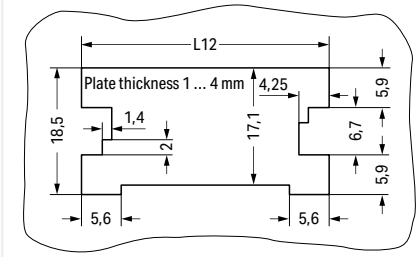
4 mm²; 769 Series

Technical Data	
Pin spacing: 5 mm / 0.197 inch	
0.08 … 4 mm²	28 … 12 AWG
500 V/6 kV/3 ❶	300 V, 20 A
I_N 32 A ❷	300 V, 20 A
8 … 9 mm / 0.31 … 0.35 inch	

❶ 500 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

❷ Current-carrying capacity curves upon request

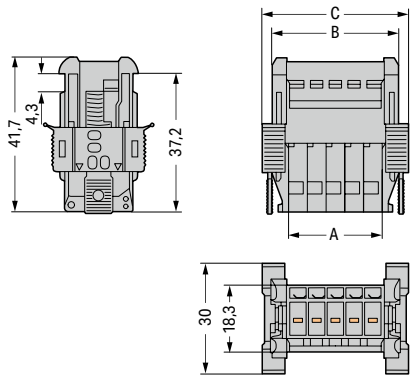
Approvals and corresponding ratings, visit www.wago.com



L12 = pole no. x pin spacing + 10.2 mm

Sheet metal cutout (for female connectors without locking levers)
Male connector with CAGE CLAMP® connection (769-6xx/006-000) and snap-in flanges

Dimensions (in mm)

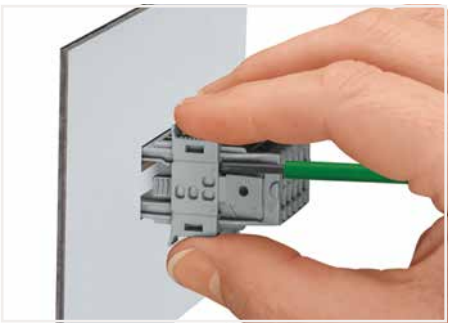


C = A + 14.3 mm
B = A + 9.3 mm
A = pole no. x pin spacing

Insert a male connector with snap-in flanges (769-605/006-000) into the cutout.

Secure the snap-in flange.

For removal, insert operating tool (2.5 mm blade) into release slot.



Press center part on both the top and bottom of the connector. Then remove snap-in flange.

Male connector; with CAGE CLAMP® connection and snap-in flanges; for flying leads; gray		
Pole No.	Item No.	Pack. Unit
2	769-602/006-000	50
3	769-603/006-000	25
4	769-604/006-000	25
5	769-605/006-000	25
6	769-606/006-000	25
7	769-607/006-000	25
8	769-608/006-000	20
9	769-609/006-000	20
10	769-610/006-000	20
11	769-611/006-000	15
12	769-612/006-000	15
13	769-613/006-000	15
14	769-614/006-000	10
15	769-615/006-000	10

6

Male Header X-COM®-SYSTEM; with Solder Pins; 5 mm Pin Spacing
769 Series

Technical Data	
Pin spacing: 5 mm / 0.197 inch	
250 V/4 kV/3 ❶	300 V, 20 A
500 V/4 kV/3 ❶	300 V, 20 A
I_N 32 A ❷	

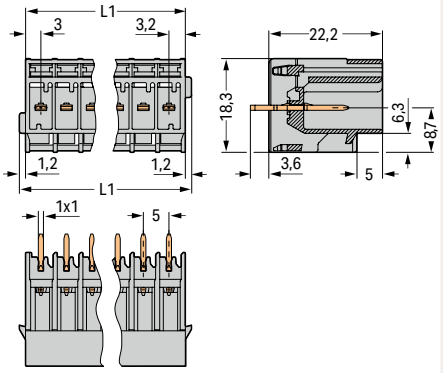
Technical Data	
Pin spacing: 5 mm / 0.197 inch	
250 V/4 kV/3 ❶	300 V, 20 A
500 V/4 kV/3 ❶	300 V, 20 A
I_N 32 A ❷	

❶ 250 V / 500 V = rated voltage
4 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

❷ Current-carrying capacity curve on page 420 and upon request

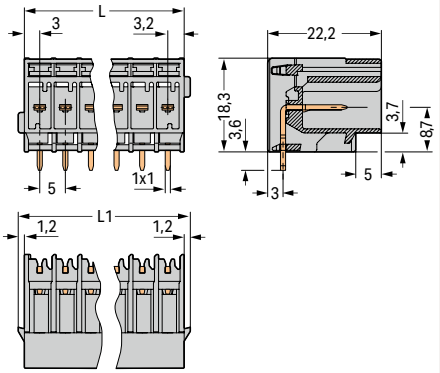
Approvals and corresponding ratings, visit www.wago.com

Dimensions (in mm)

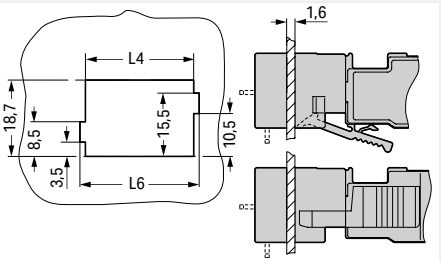


L1 = L + 2.4 mm
L = (pole no. - 1) x pin spacing + 6.2 mm

Dimensions (in mm)



L1 = L + 2.4 mm
L = (pole no. - 1) x pin spacing + 6.2 mm

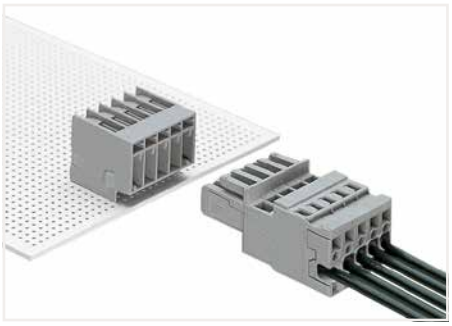


L6 = L4 + 2.6 mm
L4 = pole no. x pin spacing + 1.7 mm

Cutout
Male header; with solder pins

Male header; with straight solder pins; 1 x 1 mm; Vertical mating direction to the PCB; gray		
Pole No.	Item No.	Pack. Unit
2	769-632	200
3	769-633	100
4	769-634	50
5	769-635	50
6	769-636	50
7	769-637	50
8	769-638	25
9	769-639	25
10	769-640	25
11	769-641	25
12	769-642	25
13	769-643	25
14	769-644	25
15	769-645	25

Male header; with angled solder pins; 1 x 1 mm; Horizontal mating direction to the PCB; gray		
Pole No.	Item No.	Pack. Unit
2	769-662	200
3	769-663	100
4	769-664	50
5	769-665	50
6	769-666	50
7	769-667	50
8	769-668	25
9	769-669	25
10	769-670	25
11	769-671	25
12	769-672	25
13	769-673	25
14	769-674	25
15	769-675	25



Male header; with angled solder pins

Male header; with preceding contact; with straight solder pins; 1 x 1 mm; Vertical mating direction to the PCB; gray		
2	769-632/000-036	200
3	769-633/000-036	100
4	769-634/000-036	50
5	769-635/000-036	50

Accessories; for male connectors			
1-connector female plug; straight			
	gray	769-102	100

1-conductor female plug; with lateral locking levers			
	gray	769-102/021-000	50

Male Header X-COM®-SYSTEM; with Solder Pins and Mounting Flanges; 5 mm Pin Spacing
769 Series

Technical Data	
Pin spacing: 5 mm / 0.197 inch	
250 V/4 kV/3 ❶	300 V, 20 A
500 V/4 kV/3 ❶	300 V, 20 A
I_N 32 A ❷	

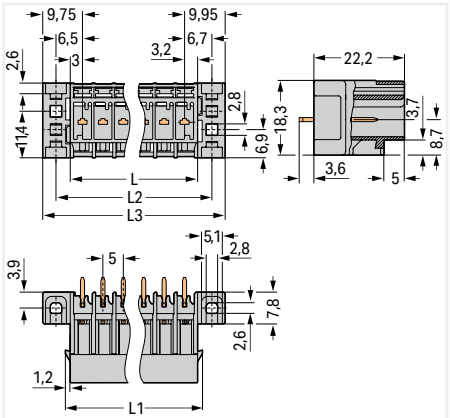
Technical Data	
Pin spacing: 5 mm / 0.197 inch	
250 V/4 kV/3 ❶	300 V, 20 A
500 V/4 kV/3 ❶	300 V, 20 A
I_N 32 A ❷	

❶ 250 V / 500 V = rated voltage
4 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

❷ Current-carrying capacity curve on page 420 and upon request

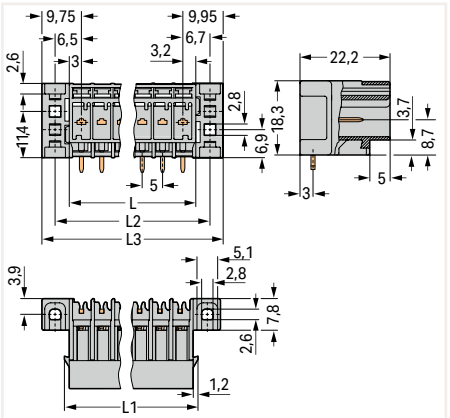
Approvals and corresponding ratings, visit www.wago.com

Dimensions (in mm)

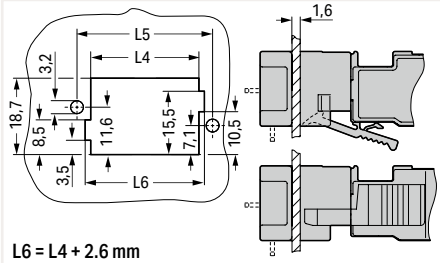


L1 = L + 2.4 mm, L2 = L + 7 mm, L3 = L + 13.5 mm
L = (pole no. - 1) x pin spacing + 6.2 mm

Dimensions (in mm)

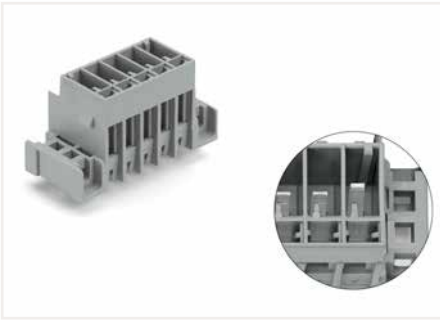


L1 = L + 2.4 mm, L2 = L + 7 mm, L3 = L + 13.5 mm
L = (pole no. - 1) x pin spacing + 6.2 mm



L6 = L4 + 2.6 mm
L5 = L5 + 6.6 mm
L4 = pole no. x pin spacing + 1.7 mm

Cutout
Male header; with solder pins and mounting flanges



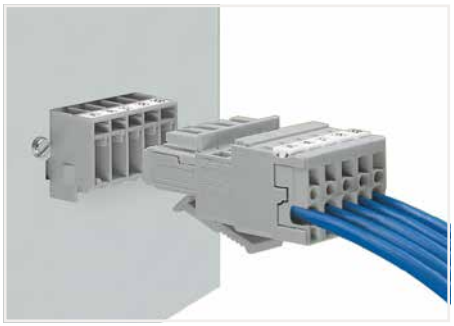
Male header; with preceding contact; with straight solder pins and mounting flanges

Male header; with straight solder pins and mounting flanges; 1 x 1 mm; Vertical mating direction to the PCB; gray

Pole No.	Item No.	Pack. Unit
2	769-632/003-000	200
3	769-633/003-000	100
4	769-634/003-000	50
5	769-635/003-000	50
6	769-636/003-000	25
7	769-637/003-000	25
8	769-638/003-000	25
9	769-639/003-000	25
10	769-640/003-000	25
11	769-641/003-000	25
12	769-642/003-000	25
13	769-643/003-000	15
14	769-644/003-000	15
15	769-645/003-000	15

Male header; with angled solder pins and mounting flanges; 1 x 1 mm; Horizontal mating direction to the PCB; gray

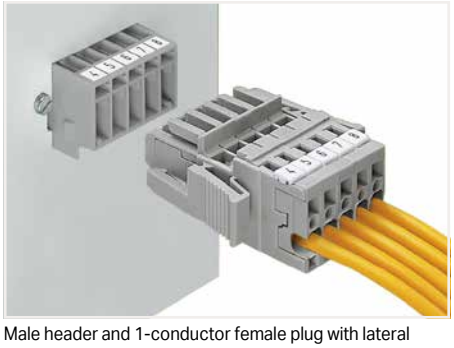
Pole No.	Item No.	Pack. Unit
2	769-662/003-000	100
3	769-663/003-000	100
4	769-664/003-000	50
5	769-665/003-000	50
6	769-666/003-000	50
7	769-667/003-000	25
8	769-668/003-000	25
9	769-669/003-000	25
10	769-670/003-000	25
11	769-671/003-000	25
12	769-672/003-000	25
13	769-673/003-000	15
14	769-674/003-000	15
15	769-675/003-000	15



Male header with mounting flanges
1-conductor female plug with bottom-mount locking levers

Male header; with preceding contact; with straight solder pins and mounting flanges; 1 x 1 mm; Vertical mating direction to the PCB; gray

2	769-632/003-036	200
3	769-633/003-036	100
4	769-634/003-036	50
5	769-635/003-036	50
6	769-636/003-036	25



Male header and 1-conductor female plug with lateral locking levers

Accessories; for male connectors

1-connector female plug; straight

gray	769-102	100

1-conductor female plug; with lateral locking levers

gray	769-102/021-000	50

Male Header X-COM®-SYSTEM; with Solder Pins and Feedthrough Flanges; 5 mm Pin Spacing
769 Series

Technical Data	
Pin spacing: 5 mm / 0.197 inch	
250 V/4 kV/3 ❶	300 V, 20 A
500 V/4 kV/3 ❶	300 V, 20 A
I_N 32 A ❷	

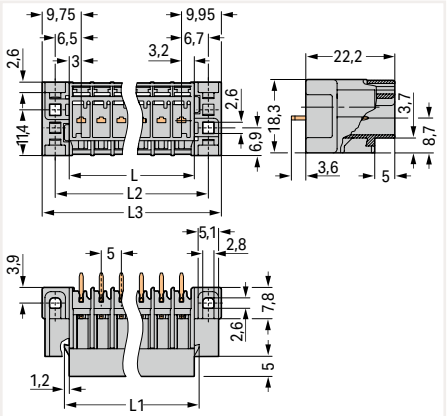
Technical Data	
Pin spacing: 5 mm / 0.197 inch	
250 V/4 kV/3 ❶	300 V, 20 A
500 V/4 kV/3 ❶	300 V, 20 A
I_N 32 A ❷	

❶ 250 V / 500 V = rated voltage
4 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

❷ Current-carrying capacity curve on page 420 and upon request

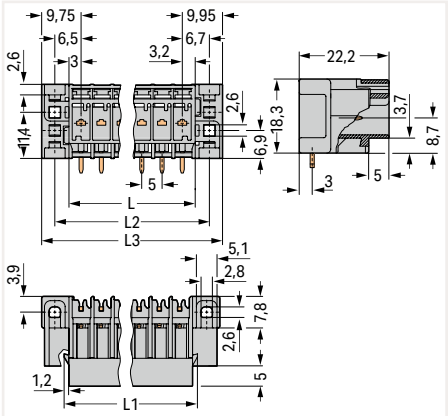
Approvals and corresponding ratings, visit www.wago.com

Dimensions (in mm)

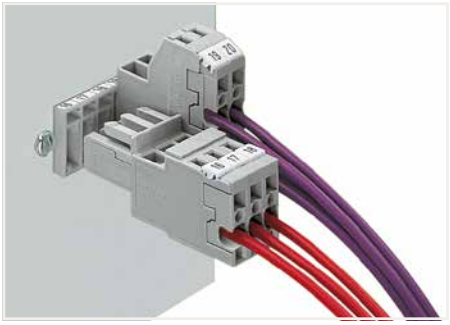


L1 = L + 2.4 mm, L2 = L + 7 mm, L3 = L + 13.5 mm
L = (pole no. - 1) x pin spacing + 6.2 mm

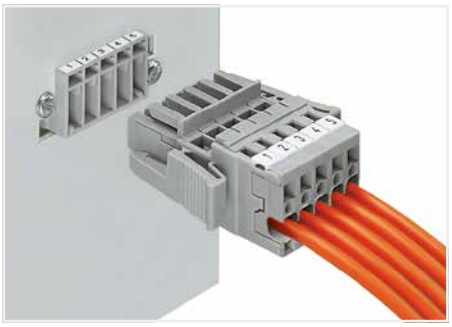
Dimensions (in mm)



L1 = L + 2.4 mm, L2 = L + 7 mm, L3 = L + 13.5 mm
L = (pole no. - 1) x pin spacing + 6.2 mm



Male header; with feedthrough flanges
1-conductor female plug
2-conductor female plug



Male header and 1-conductor female plug with lateral locking levers

Male header; with straight solder pins and feedthrough flanges; 1 x 1 mm; Vertical mating direction to the PCB; gray

Pole No.	Item No.	Pack. Unit
2	769-632/004-000	200
3	769-633/004-000	50
4	769-634/004-000	50
5	769-635/004-000	50
6	769-636/004-000	50
7	769-637/004-000	25
8	769-638/004-000	25
9	769-639/004-000	25
10	769-640/004-000	25
11	769-641/004-000	25
12	769-642/004-000	25
13	769-643/004-000	15
14	769-644/004-000	15
15	769-645/004-000	15

Male header; with angled solder pins and feedthrough flanges; 1 x 1 mm; Horizontal mating direction to the PCB; gray

Pole No.	Item No.	Pack. Unit
2	769-662/004-000	200
3	769-663/004-000	100
4	769-664/004-000	50
5	769-665/004-000	50
6	769-666/004-000	50
7	769-667/004-000	50
8	769-668/004-000	25
9	769-669/004-000	25
10	769-670/004-000	25
11	769-671/004-000	25
12	769-672/004-000	25
13	769-673/004-000	25
14	769-674/004-000	15
15	769-675/004-000	15

Accessories; for male connectors

1-connector female plug; straight

gray	769-102	100

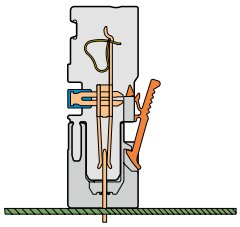
1-conductor female plug; with lateral locking levers

gray	769-102/021-000	50

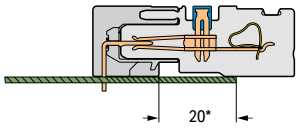
Coding pin; for coding female plugs

orange	769-435	100 (25)

Male Headers X-COM®-SYSTEM; with Solder Pins; with 1-/2-Conductor Female Plugs
Assembly Types

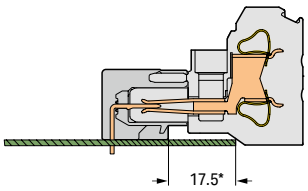


Male header; with straight solder pins



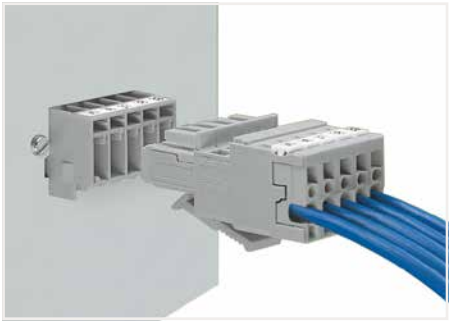
* Maximum dimension when using 1-conductor female plugs

Male header; with angled solder pins

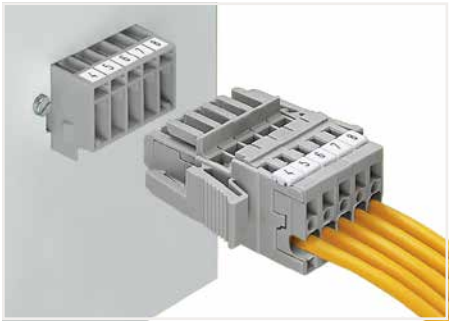


* Maximum dimension when using 2-conductor female plugs

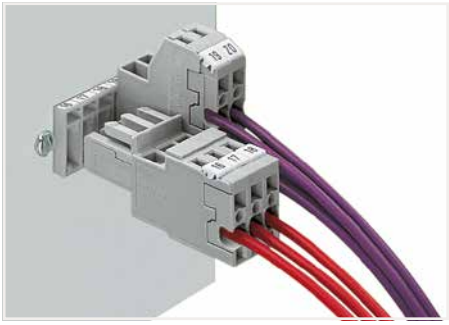
Male header; with angled solder pins



Male header; with mounting flanges
1-conductor female plug; with bottom-mount locking levers



Male header; with mounting flanges
1-conductor female plug; with lateral locking levers

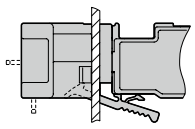


Male header; with feedthrough flanges
1-conductor female plug
2-conductor female plug

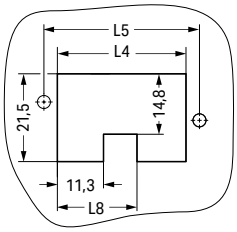
6

Cutouts for headers with fixing flanges for feedthrough applications and locking levers

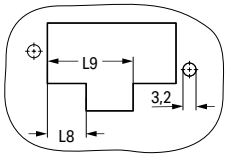
Female plugs with **bottom-mounted** locking levers



Cutouts for
2-pole locking levers
(2- to 15-pole female plugs)

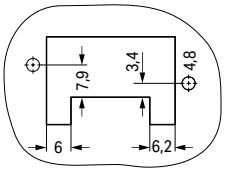


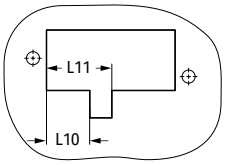
Layout for locking levers outer . . .



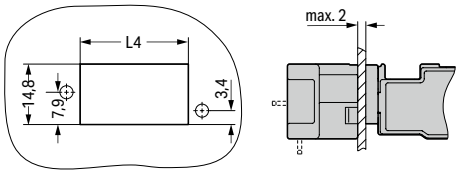
. . . inner

Cutouts for
single pole locking levers

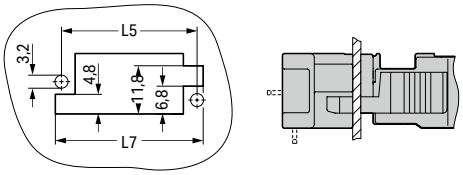




Female plug **without** locking levers



Female plug with **lateral** locking levers



L 4 = pole no. x pin spacing + 1.7 mm
L 5 = L4 + 6.6 mm
L 7 = L4 + 9.4 mm
L 8 = pole no. LL x pin spacing - 0.3 mm
L 9 = L8 + 11.6 mm
L10 = pole no. LL x pin spacing + 0.6 mm
L11 = L10 + 5.4 mm
Pole no. LL: Number of poles ahead of the poles attached to the locking lever
LL = locking lever

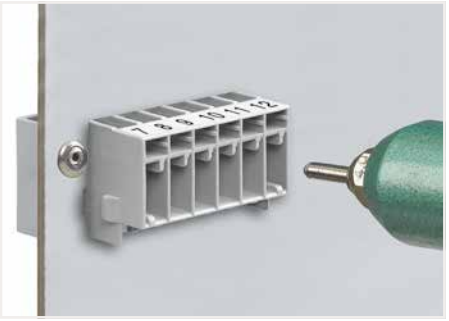
Male Header X-COM®-SYSTEM; with Solder Pins and Rivet Mounting Flanges; 5 mm Pin Spacing
769 Series

Technical Data
Pin spacing: 5 mm / 0.197 inch
250 V/4 kV/3 ❶
500 V/4 kV/3 ❶
I_N 32 A ❷

❶ 250 V / 500 V = rated voltage
4 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

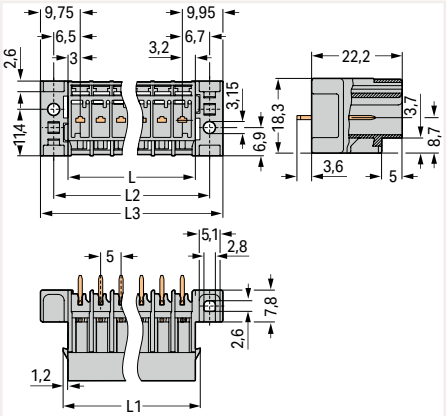
❷ Current-carrying capacity curves upon request

Approvals and corresponding ratings,
visit www.wago.com



Mounting with 3 mm Ø blind rivets

Dimensions (in mm)



L1 = L + 2.4 mm, L2 = L + 7 mm, L3 = L + 13.5 mm
L = (pole no. - 1) x pin spacing + 6.2 mm

Male header; with straight solder pins and rivet mounting flanges; 1 x 1 mm; Vertical mating direction to the PCB; gray

Pole No.	Item No.	Pack. Unit
2	769-632/007-000	200
3	769-633/007-000	50
4	769-634/007-000	50
5	769-635/007-000	50
6	769-636/007-000	50
7	769-637/007-000	25
8	769-638/007-000	25
9	769-639/007-000	25
10	769-640/007-000	25
11	769-641/007-000	25
12	769-642/007-000	25
13	769-643/007-000	15
14	769-644/007-000	15
15	769-645/007-000	15

Accessories; for male connectors

1-connector female plug; straight

gray	769-102	100

1-conductor female plug; with lateral locking levers

gray	769-102/021-000	50

Coding pin; for coding female plugs

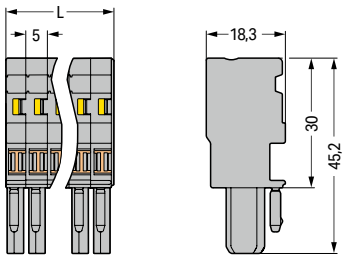
orange	769-435	100 (25)

CAGE CLAMP®

1-Conductor Female Plug X-COM®-SYSTEM
4 mm²; 769 Series

Technical Data	
0.08 … 2.5 mm²	28 … 12 AWG*
500 V/6 kV/3 ❶	300 V, 20 A
I_N 32 A ❷	300 V, 20 A
Module width: 5 mm / 0.197 inch	
8 … 9 mm / 0.31 … 0.35 inch	

Dimensions (in mm)



L = pole no. x module width

1-conductor female plug; straight; fits into carrier terminal blocks or male connectors; with coding fingers; can be commoned with miniature adjacent jumpers; gray

Pole No.	Item No.	Pack. Unit
1	769-101	200
2	769-102	100
3	769-103	50
4	769-104	50
5	769-105	50
6	769-106	25
7	769-107	25
8	769-108	25
9	769-109	25
10	769-110	25
11	769-111	20
12	769-112	20
13	769-113	10
14	769-114	10
15	769-115	10

1-conductor female plug; straight; fits into carrier terminal blocks or male connectors; with coding fingers; can be commoned with miniature adjacent jumpers

1 blue	769-101/000-006	200
1 orange	769-101/000-012	200
1 green-yellow	769-101/000-016	200

❶ 500 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

❷ Current-carrying capacity curve from page 417 and upon request

Item no. suffixes
blue …/000-006
green-yellow …/000-016

Snap-on type strain relief housing, see page 416

Note:
According to EN 61984, pluggable connectors without a current interrupting capacity must not be mated or unmated when live or under load.

Approvals and corresponding ratings, visit www.wago.com

Accessories; for female plugs

Appropriate marking systems:
Mini-WSB/Mini-WSB Inline

Insulation stop; 0.08 … 0.2 mm² "s" (0.14 mm² "f-st"); 5 pcs/strip

white 769-470 200 (25)

Insulation stop; 0.25 … 0.5 mm²; 5 pcs/strip

light gray 769-471 200 (25)

Insulation stop; 0.75 … 1 mm²; 5 pcs/strip

dark gray 769-472 200 (25)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks

yellow 280-415 100 (25)

Adjacent jumper; insulated; I_N 24 A

gray 769-402 100 (25)

Jumper cover; for 1-conductor female plugs; for 5 poles

gray 769-436 100 (25)

Operating lever; loose; for male and female connectors with CAGE CLAMP® connection

769-434 2000 (100)

Locking Lever; for 1-pole female plugs

gray	769-428	100 (25)
orange	769-429	100 (25)

Locking lever; for female plugs with 2 poles and more

gray	769-431	100 (25)
orange	769-430	100 (25)

Strain relief plate; gray

1-pole	769-410	100 (25)
2- … 3-pole	769-411	100 (25)
4- … 5-pole	769-412	100 (25)

Strain relief plate; gray

6- … 9-pole	769-413	100 (25)
10- … 15-pole	769-414	100 (25)

Accessories; for female plugs

Appropriate marking systems:
Mini-WSB/Mini-WSB Inline

Snap-on type strain relief housing; consists of strain relief support and housing

5-pole 769-1605 25

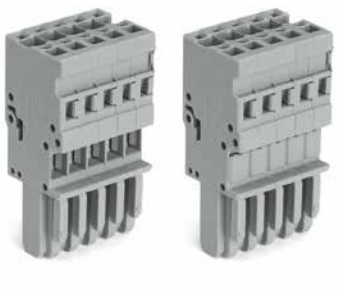
Mini-WSB marking card; white; 10 strips with 10 markers/card; 5 mm wide markers

plain 248-501 5

Mini-WSB marking card; plain; 10 strips with 10 markers/card; 5 mm wide markers

yellow	248-501/000-002	5
red	248-501/000-005	5
blue	248-501/000-006	5
gray	248-501/000-007	5
orange	248-501/000-012	5
light green	248-501/000-017	5
green	248-501/000-023	5
violet	248-501/000-024	5

1-pole female plug
Application examples:
- Phase selection in three-phase network
- Test plug with rated current capability
- Simplified circuit expansion – addition of base circuits requires only female plugs to be plugged in



Jumper cover for 1-conductor female plugs

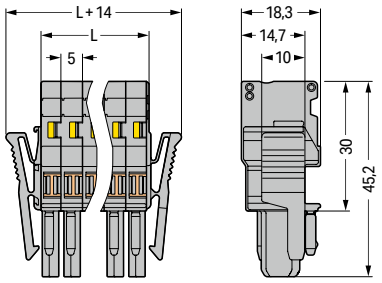
6

CAGE CLAMP®

1-Conductor Female Plug X-COM®-SYSTEM; with Lateral Locking Levers
4 mm²; 769 Series

Technical Data	
0.08 … 2.5 mm²	28 … 12 AWG*
500 V/6 kV/3 ❶	300 V, 20 A
I_N 32 A ❷	300 V, 20 A
Module width: 5 mm / 0.197 inch	
8 … 9 mm / 0.31 … 0.35 inch	

Dimensions (in mm)



L = (pole no. x module width) + 1 mm

1-conductor female plug; with lateral locking levers; only compatible with male connectors; codable; can be commoned with miniature adjacent jumpers; gray

Pole No.	Item No.	Pack. Unit
2	769-102/021-000	200
3	769-103/021-000	50
4	769-104/021-000	50
5	769-105/021-000	50
6	769-106/021-000	50
7	769-107/021-000	25
8	769-108/021-000	25
9	769-109/021-000	25
10	769-110/021-000	25
11	769-111/021-000	25
12	769-112/021-000	25
13	769-113/021-000	15
14	769-114/021-000	15
15	769-115/021-000	15

❶ 500 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

❷ Current-carrying capacity curve from page 417 and upon request

Item no. suffixes
blue …/000-006
green-yellow …/000-016

Snap-on type strain relief housing, see page 416

Note:
According to EN 61984, pluggable connectors without a current interrupting capacity must not be mated or unmated when live or under load.

Approvals and corresponding ratings, visit www.wago.com

Accessories; for female plugs

Appropriate marking systems:
Mini-WSB/Mini-WSB Inline

Insulation stop; 0.08 … 0.2 mm² "s" (0.14 mm² "f-st"); 5 pcs/strip

white	769-470	200 (25)

Insulation stop; 0.25 … 0.5 mm²; 5 pcs/strip

light gray	769-471	200 (25)

Insulation stop; 0.75 … 1 mm²; 5 pcs/strip

dark gray	769-472	200 (25)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks

yellow	280-415	100 (25)

Adjacent jumper; insulated; I_N 24 A

gray	769-402	100 (25)

Jumper cover; for 1-conductor female plugs; for 5 poles

gray	769-436	100 (25)

Operating lever; loose; for male and female connectors with CAGE CLAMP® connection

	769-434	2000 (100)

Strain relief plate; gray

2- … 3-pole	769-411	100 (25)
4- … 5-pole	769-412	100 (25)

Strain relief plate; gray

6- … 9-pole	769-413	100 (25)
10- … 15-pole	769-414	100 (25)

Snap-on type strain relief housing; consists of strain relief support and housing

5-pole	769-1605	25

Accessories; for female plugs

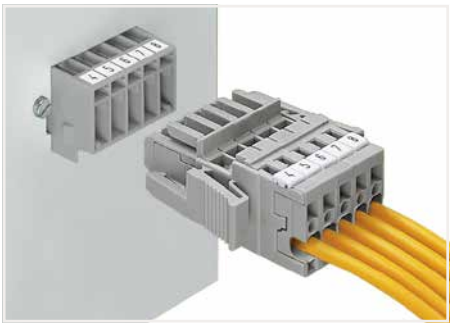
Appropriate marking systems:
Mini-WSB/Mini-WSB Inline

Mini-WSB marking card; white; 10 strips with 10 markers/card; 5 mm wide markers

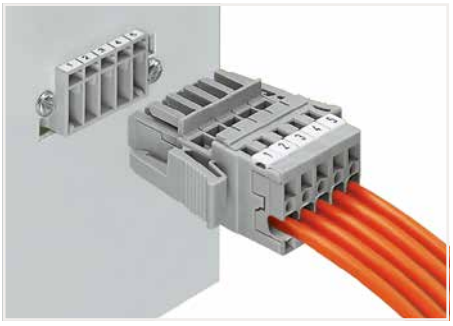
plain	248-501	5

Mini-WSB marking card; plain; 10 strips with 10 markers/card; 5 mm wide markers

yellow	248-501/000-002	5
red	248-501/000-005	5
blue	248-501/000-006	5
gray	248-501/000-007	5
orange	248-501/000-012	5
light green	248-501/000-017	5
green	248-501/000-023	5
violet	248-501/000-024	5



Male header; with mounting flanges
1-conductor female plug with lateral locking levers



Male header and 1-conductor female plug with lateral locking levers

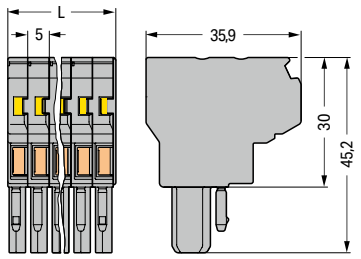
6

CAGE CLAMP®

2-Conductor Female Plug X-COM®-SYSTEM
4 mm²; 769 Series

Technical Data	
0.08 … 2.5 mm²	28 … 12 AWG*
500 V/6 kV/3 ❶	300 V, 20 A
I_N 32 A ❷	300 V, 20 A
Module width: 5 mm / 0.197 inch	
8 … 9 mm / 0.31 … 0.35 inch	

Dimensions (in mm)



L = pole no. x module width

2-conductor female plug; fits into carrier terminal blocks or male connectors; codable; can be commoned with adjacent and staggered jumpers; gray

Pole No.	Item No.	Pack. Unit
1	769-121	100
2	769-122	50
3	769-123	25
4	769-124	25
5	769-125	20
6	769-126	10
7	769-127	10
8	769-128	10
9	769-129	10
10	769-130	10
11	769-131	5
12	769-132	5
13	769-133	5
14	769-134	5
15	769-135	5

❶ 500 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

❷ Current-carrying capacity curves upon request

Item no. suffixes
blue .../000-006
green-yellow .../000-016

Please observe the application notes:
Jumpers, from page 348

Note:
According to EN 61984, pluggable connectors without a current interrupting capacity must not be mated or unmated when live or under load.

Approvals and corresponding ratings, visit www.wago.com

Accessories; for female plugs

Appropriate marking systems:
Mini-WSB/Mini-WSB Inline

Insulation stop; 0.08 … 0.2 mm² "s" (0.14 mm² "f-st"); 5 pcs/strip

white	769-470	200 (25)

Insulation stop; 0.25 … 0.5 mm²; 5 pcs/strip

light gray	769-471	200 (25)

Insulation stop; 0.75 … 1 mm²; 5 pcs/strip

dark gray	769-472	200 (25)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks

yellow	280-415	100 (25)

Adjacent jumper; insulated; I_N = I_N terminal block

gray	280-402	200 (25)

Staggered jumper; insulated; 5 mm wide; I_N 24 A

1 to 2	780-452	100 (25)
1 to 3	780-453	100 (25)
1 to 4	780-454	100 (25)
1 to 5	780-455	50 (25)
1 to 6	780-456	50 (25)
1 to 7	780-457	50 (25)
1 to 8	780-458	50 (25)

Locking Lever; for 1-pole female plugs

gray	769-428	100 (25)
orange	769-429	100 (25)

Locking lever; for female plugs with 2 poles and more

gray	769-431	100 (25)
orange	769-430	100 (25)

Strain relief plate; gray

1-pole	769-410	100 (25)
2- … 3-pole	769-411	100 (25)
4- … 5-pole	769-412	100 (25)

Strain relief plate; gray

6- … 9-pole	769-413	100 (25)
10- … 15-pole	769-414	100 (25)

Accessories; for female plugs

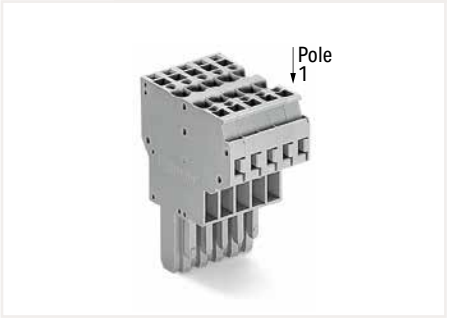
Appropriate marking systems:
Mini-WSB/Mini-WSB Inline

Mini-WSB marking card; white; 10 strips with 10 markers/card; 5 mm wide markers

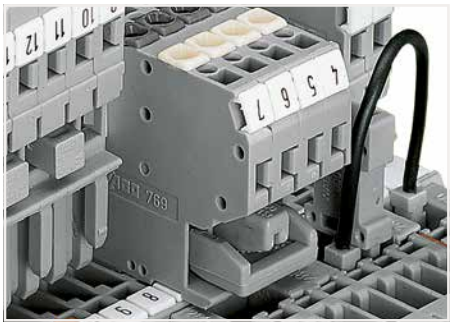
plain	248-501	5

Mini-WSB marking card; plain; 10 strips with 10 markers/card; 5 mm wide markers

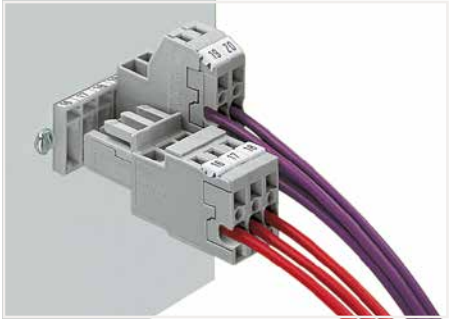
yellow	248-501/000-002	5
red	248-501/000-005	5
blue	248-501/000-006	5
gray	248-501/000-007	5
orange	248-501/000-012	5
light green	248-501/000-017	5
green	248-501/000-023	5
violet	248-501/000-024	5



2-conductor female plugs:
- Common signals from one subassembly to the other (bus structure)
- Can be used as a T-wire branch tap connection (e.g. for lighting wiring)
- Enable a higher number of connection possibilities



Commoning options of female plugs:
- After removal, commoned potentials still remain commoned
- Use of plug-in jumpers instead of additional wired jumpers
- Can be used as a "hardware" key for safety lockout
- Can also be used as a commoning jumper for sensor circuits or machine programming



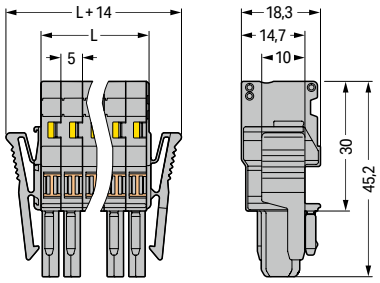
Male header with feedthrough flanges,
1-conductor female plug,
2-conductor female plug

CAGE CLAMP®

1-Conductor Female Plug X-COM®-SYSTEM; Angled
4 mm²; 769 Series

Technical Data	
0.08 … 2.5 mm²	28 … 12 AWG*
500 V/6 kV/3 ❶	300 V, 20 A
I_N 32 A ❷	300 V, 20 A
Module width: 5 mm / 0.197 inch	
8 … 9 mm / 0.31 … 0.35 inch	

Dimensions (in mm)



L = (pole no. x module width) + 1 mm

1-conductor female plug; angled; fits into carrier terminal blocks; codable; gray

Pole No.	Item No.	Pack. Unit
1	769-101/022-000	200
2	769-102/022-000	100
3	769-103/022-000	50
4	769-104/022-000	50
5	769-105/022-000	50
6	769-106/022-000	25
7	769-107/022-000	25
8	769-108/022-000	25
9	769-109/022-000	25
10	769-110/022-000	25
11	769-111/022-000	20
12	769-112/022-000	20
13	769-113/022-000	10
14	769-114/022-000	10
15	769-115/022-000	10

❶ 500 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

❷ Current-carrying capacity curves upon request

Item no. suffixes
blue …/000-006
green-yellow …/000-016

Note:
According to EN 61984, pluggable connectors without a current interrupting capacity must not be mated or unmated when live or under load.

Approvals and corresponding ratings, visit www.wago.com

Accessories; for female plugs

Appropriate marking systems:
Mini-WSB/Mini-WSB Inline

Insulation stop; 0.08 … 0.2 mm² "s" (0.14 mm² "f-st"); 5 pcs/strip

white **769-470** 200 (25)

Insulation stop; 0.25 … 0.5 mm²; 5 pcs/strip

light gray **769-471** 200 (25)

Insulation stop; 0.75 … 1 mm²; 5 pcs/strip

dark gray **769-472** 200 (25)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks

yellow **280-415** 100 (25)

Operating lever; loose; for male and female connectors with CAGE CLAMP® connection

769-434 2000 (100)

Test plug; with 500 mm cable; 2 mm Ø; max. 42 V

red **210-136** 50

Test plug; with 500 mm cable; 2 mm Ø; max. 42 V

yellow **210-137** 50

Strain relief plate; gray

1-pole **769-410** 100 (25)
2- … 3-pole **769-411** 100 (25)
4- … 5-pole **769-412** 100 (25)

Strain relief plate; gray

6- … 9-pole **769-413** 100 (25)
10- … 15-pole **769-414** 100 (25)

Snap-on type strain relief housing; consists of strain relief support and housing

5-pole **769-1605** 25

Accessories; for female plugs

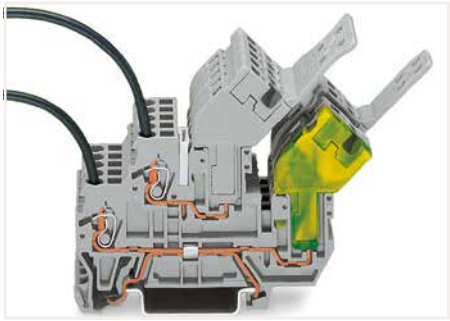
Appropriate marking systems:
Mini-WSB/Mini-WSB Inline

Mini-WSB marking card; white; 10 strips with 10 markers/card; 5 mm wide markers

plain **248-501** 5

Mini-WSB marking card; plain; 10 strips with 10 markers/card; 5 mm wide markers

yellow	**248-501/000-002**	5
red	248-501/000-005	5
blue	**248-501/000-006**	5
gray	248-501/000-007	5
orange	**248-501/000-012**	5
light green	248-501/000-017	5
green	**248-501/000-023**	5
violet	248-501/000-024	5



Angled female plugs provide reduced installation height.

1-conductor/1-pin double-deck carrier terminal block
1-conductor female plug, angled*
*1-conductor straight female plug is also possible!

6

Female Plug for Self-Assembly X-COM®-SYSTEM
4 mm²; 769 Series

Technical Data
0.08 … 4 mm² | 28 … 12 AWG
500 V/6 kV/3 ❶
I_N 32 A ❷
Terminal block width: 5 mm / 0.197 inch
8 … 9 mm / 0.31 … 0.35 inch

1-conductor end module; codable; can be commoned with miniature adjacent jumpers

Color	Item No.	Pack. Unit
gray	769-503	250
blue	769-503/000-006	250
green-yellow	769-503/000-016	250

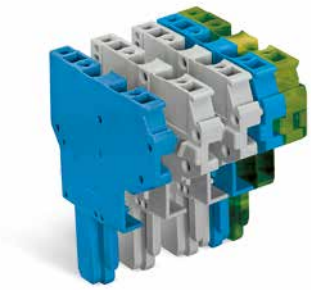
1-conductor center module; codable; can be commoned with miniature adjacent jumpers

Color	Item No.	Pack. Unit
gray	769-502	250
blue	769-502/000-006	250
green-yellow	769-502/000-016	250

1-conductor base module; with integrated end plate; codable; can be commoned with miniature adjacent jumpers

Color	Item No.	Pack. Unit
gray	769-501	250
blue	769-501/000-006	250
green-yellow	769-501/000-016	250

Technical Data
0.08 … 4 mm² | 28 … 12 AWG
500 V/6 kV/3 ❶
I_N 32 A ❷
Terminal block width: 5 mm / 0.197 inch
8 … 9 mm / 0.31 … 0.35 inch



2-conductor end module; codable; can be commoned with adjacent and staggered jumpers

Color	Item No.	Pack. Unit
gray	769-506	250
blue	769-506/000-006	250
green-yellow	769-506/000-016	250

2-conductor center module; codable; can be commoned with adjacent and staggered jumpers

Color	Item No.	Pack. Unit
gray	769-505	250
blue	769-505/000-006	250
green-yellow	769-505/000-016	250

2-conductor base module; with integrated end plate; codable; can be commoned with adjacent and staggered jumpers

Color	Item No.	Pack. Unit
gray	769-504	250
blue	769-504/000-006	250
green-yellow	769-504/000-016	250

Technical Data
0.08 … 4 mm² | 28 … 12 AWG
500 V/6 kV/3 ❶
I_N 32 A ❷
Terminal block width: 5 mm / 0.197 inch
8 … 9 mm / 0.31 … 0.35 inch

1-conductor end module; angled; codable

Color	Item No.	Pack. Unit
gray	769-515	250
blue	769-515/000-006	250
green-yellow	769-515/000-016	250

1-conductor center module; angled; codable

Color	Item No.	Pack. Unit
gray	769-513	250
blue	769-513/000-006	250
green-yellow	769-513/000-016	250

1-conductor base module; angled; with integrated end plate; codable

Color	Item No.	Pack. Unit
gray	769-512	250
blue	769-512/000-006	250
green-yellow	769-512/000-016	250

Accessories; item-specific

Adjacent jumper; insulated; I_N 24 A

gray	769-402	100 (25)

Accessories; item-specific

Adjacent jumper; insulated; I_N = I_N terminal block

gray	280-402	200 (25)

Accessories; for female plugs

Appropriate marking systems: Mini-WSB/Mini-WSB Inline

Insulation stop; 0.08 … 0.2 mm² "s" (0.14 mm² "f-st"); 5 pcs/strip

white	769-470	200 (25)

Insulation stop; 0.25 … 0.5 mm²; 5 pcs/strip

light gray	769-471	200 (25)

Insulation stop; 0.75 … 1 mm²; 5 pcs/strip

dark gray	769-472	200 (25)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks

yellow	280-415	100 (25)

Operating lever; loose; for male and female connectors with CAGE CLAMP® connection

	769-434	2000 (100)

Locking Lever; for 1-pole female plugs

gray	769-428	100 (25)
orange	769-429	100 (25)

Locking lever; for female plugs with 2 poles and more

gray	769-431	100 (25)
orange	769-430	100 (25)

Test plug; with 500 mm cable; 2 mm Ø; max. 42 V

red	210-136	50

Test plug; with 500 mm cable; 2 mm Ø; max. 42 V

yellow	210-137	50

Strain relief plate; gray

1-pole	769-410	100 (25)
2- … 3-pole	769-411	100 (25)
4- … 5-pole	769-412	100 (25)

Strain relief plate; gray

6- … 9-pole	769-413	100 (25)
10- … 15-pole	769-414	100 (25)

Mini-WSB marking card; white; 10 strips with 10 markers/card; 5 mm wide markers

plain	248-501	5

Mini-WSB marking card; plain; 10 strips with 10 markers/card; 5 mm wide markers

yellow	248-501/000-002	5
red	248-501/000-005	5
blue	248-501/000-006	5
gray	248-501/000-007	5
orange	248-501/000-012	5
light green	248-501/000-017	5
green	248-501/000-023	5
violet	248-501/000-024	5

❶ 500 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

❷ Current-carrying capacity curves upon request

Note:
According to EN 61984, pluggable connectors without a current interrupting capacity must not be mated or unmated when live or under load.

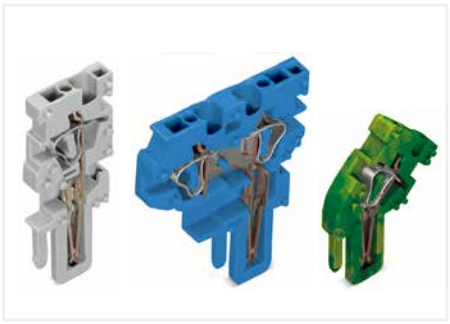
Approvals and corresponding ratings, visit www.wago.com

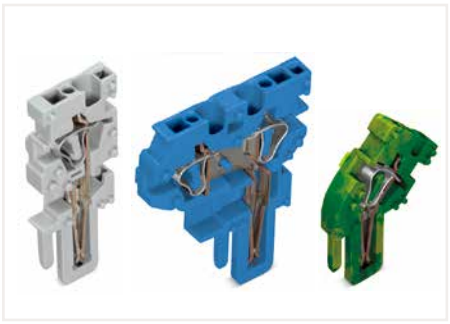
Customizing Modular Female Plugs
WAGO's modular X-COM®-SYSTEM female plugs can be customized for applications requiring varying numbers of poles (e.g., when designing prototypes).

Modules and Pole Numbers
A customized X-COM®-SYSTEM female plug consists of:
- One base module with an integrated end plate
- Up to 13 center modules (corresponding to a 15-pole female plug = maximum pole number)
- One end module

Intended Use
According to EN 61984, pluggable connectors without a current interrupting capacity must not be mated or unmated when live or under load.

Assembly
The appropriate mounting tool shall be used in order to guarantee that the individual modules are properly attached to each other without damaging the locking latches.

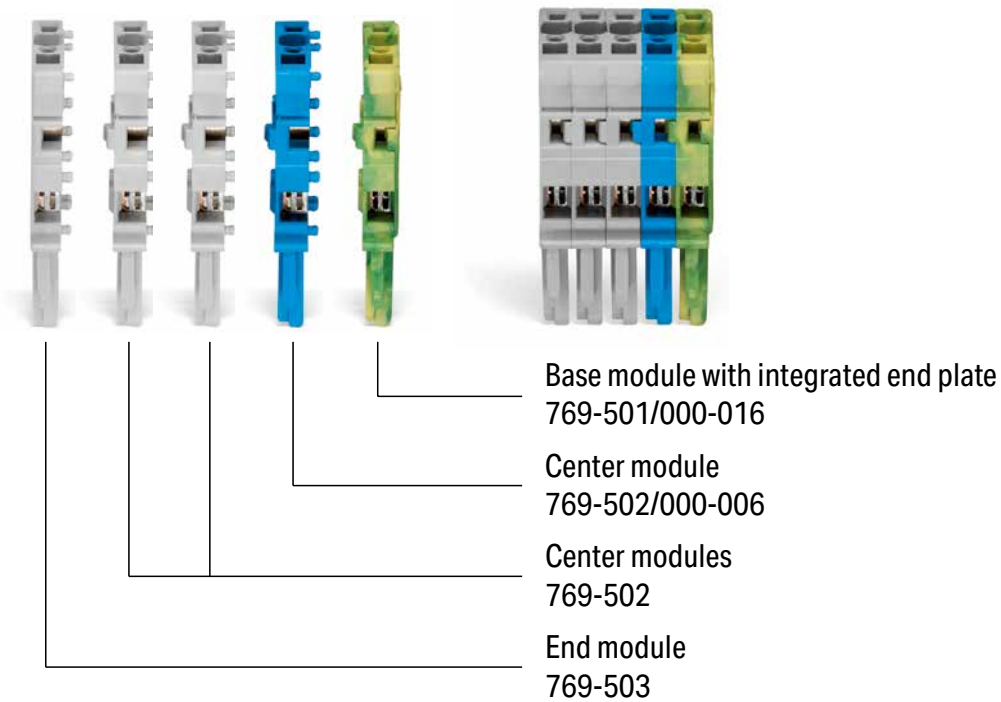

End module


Center module

Base module

6

Example: 5-Pole, 1-Conductor Female Plug



Pre-Assembled 1-Conductor Female Plug X-COM®-SYSTEM
4 mm²; 769 Series

Technical Data	
0.08 … 4 mm²	28 … 12 AWG
500 V/6 kV/3 ❶	
I_N 32 A ❷	
Module width: 5 mm / 0.197 inch	
8 … 9 mm / 0.31 … 0.35 inch	

1-conductor female plug; with ground base module (green-yellow); fits into carrier terminal blocks or male connectors; codable; can be commoned with miniature adjacent jumpers

Pole No.	Item No.	Pack. Unit
3	769-103/000-036	25
4	769-104/000-036	25
5	769-105/000-036	20
6	769-106/000-036	10
7	769-107/000-036	10
8	769-108/000-036	10
9	769-109/000-036	10
10	769-110/000-036	10
11	769-111/000-036	5
12	769-112/000-036	5
13	769-113/000-036	5
14	769-114/000-036	5
15	769-115/000-036	5

Technical Data	
0.08 … 4 mm²	28 … 12 AWG
500 V/6 kV/3 ❶	
I_N 32 A ❷	
Module width: 5 mm / 0.197 inch	
8 … 9 mm / 0.31 … 0.35 inch	

1-conductor female plug; with ground base module (green-yellow); fits into carrier terminal blocks or male connectors; codable; can be commoned with miniature adjacent jumpers

Pole No.	Item No.	Pack. Unit
3	769-103/000-037	25
4	769-104/000-037	25
5	769-105/000-037	20
6	769-106/000-037	10
7	769-107/000-037	10
8	769-108/000-037	10
9	769-109/000-037	10
10	769-110/000-037	10
11	769-111/000-037	5
12	769-112/000-037	5
13	769-113/000-037	5
14	769-114/000-037	5
15	769-115/000-037	5

Technical Data	
0.08 … 4 mm²	28 … 12 AWG
500 V/6 kV/3 ❶	
I_N 32 A ❷	
Module width: 5 mm / 0.197 inch	
8 … 9 mm / 0.31 … 0.35 inch	

1-conductor female plug; with ground base module (green-yellow); fits into carrier terminal blocks or male connectors; codable; can be commoned with miniature adjacent jumpers

Pole No.	Item No.	Pack. Unit
3	769-103/000-038	25
4	769-104/000-038	25
5	769-105/000-038	20
6	769-106/000-038	10
7	769-107/000-038	10
8	769-108/000-038	10
9	769-109/000-038	10
10	769-110/000-038	10
11	769-111/000-038	5
12	769-112/000-038	5
13	769-113/000-038	5
14	769-114/000-038	5
15	769-115/000-038	5

6

Accessories; for female plugs

Appropriate marking systems: Mini-WSB/Mini-WSB Inline

Insulation stop; 0.08 … 0.2 mm² "s" (0.14 mm² "f-st"); 5 pcs/strip

white	769-470	200 (25)

Insulation stop; 0.25 … 0.5 mm²; 5 pcs/strip

light gray	769-471	200 (25)

Insulation stop; 0.75 … 1 mm²; 5 pcs/strip

dark gray	769-472	200 (25)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks

yellow	280-415	100 (25)

Adjacent jumper; insulated; I_N 24 A

gray	769-402	100 (25)

Jumper cover; for 1-conductor female plugs; for 5 poles

gray	769-436	100 (25)

Test plug; with 500 mm cable; 2 mm Ø; max. 42 V

red	210-136	50

Test plug; with 500 mm cable; 2 mm Ø; max. 42 V

yellow	210-137	50

Strain relief plate; gray

2- … 3-pole	769-411	100 (25)
4- … 5-pole	769-412	100 (25)

Strain relief plate; gray

6- … 9-pole	769-413	100 (25)
10- … 15-pole	769-414	100 (25)

Snap-on type strain relief housing; consists of strain relief support and housing

5-pole	769-1605	25

Operating lever; loose; for male and female connectors with CAGE CLAMP® connection

	769-434	2000 (100)

Mini-WSB marking card; white; 10 strips with 10 markers/card; 5 mm wide markers

plain	248-501	5

Mini-WSB marking card; plain; 10 strips with 10 markers/card; 5 mm wide markers

yellow	248-501/000-002	5
red	248-501/000-005	5
blue	248-501/000-006	5
gray	248-501/000-007	5
orange	248-501/000-012	5
light green	248-501/000-017	5
green	248-501/000-023	5
violet	248-501/000-024	5

Technical Data	
0.08 … 4 mm²	28 … 12 AWG
500 V/6 kV/3 ❶	
I_N 32 A ❷	
Module width: 5 mm / 0.197 inch	
8 … 9 mm / 0.31 … 0.35 inch	

❶ 500 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

❷ Current-carrying capacity curves upon request

Snap-on type strain relief housing, see page 416

Note:
According to EN 61984, pluggable connectors without a current interrupting capacity must not be mated or unmated when live or under load.

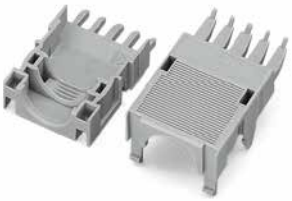
Approvals and corresponding ratings, visit www.wago.com

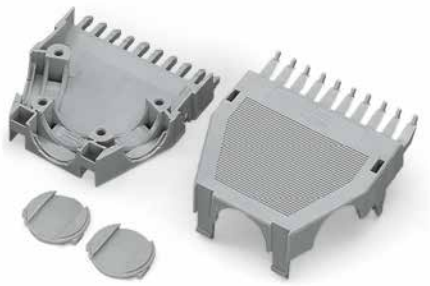
1-conductor female plug; with ground base module (green-yellow); fits into carrier terminal blocks or male connectors; codable; can be commoned with miniature adjacent jumpers

Pole No.	Item No.	Pack. Unit
3	769-103/000-039	25
4	769-104/000-039	25
5	769-105/000-039	20
6	769-106/000-039	10
7	769-107/000-039	10
8	769-108/000-039	10
9	769-109/000-039	10
10	769-110/000-039	510
11	769-111/000-039	5
12	769-112/000-039	5
13	769-113/000-039	5
14	769-114/000-039	5
15	769-115/000-039	5

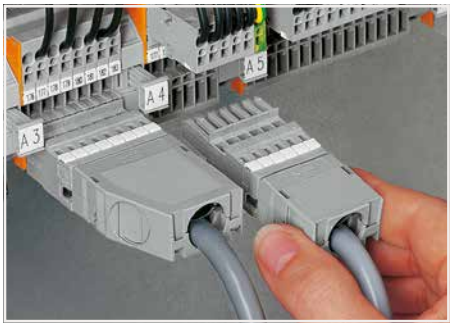
Snap-on Type Strain Relief Housing X-COM®-SYSTEM; for Female Plugs and Male Connectors with CAGE CLAMP® Connection

769 Series





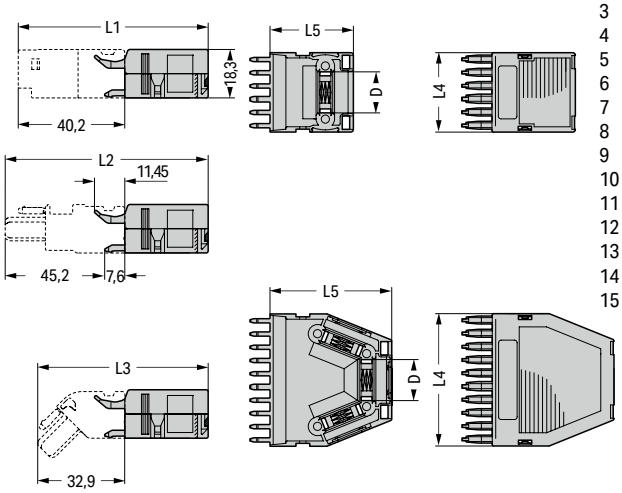
1. 1 cable outlet (rear side), 2- to 5-pole only suitable for cable ties (Fa. Hellermann – not offered by WAGO)
2. 1 cable outlet (rear side)
3. 2 cable outlets, 1 lockout cap
4. 3 cable outlets, 2 covers



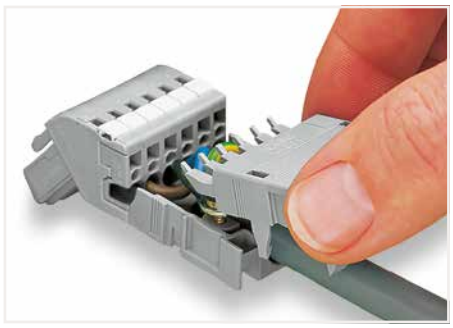
Application:
Snap-on type strain relief housings for 769 Series

Dimensions (in mm)

Dimensions for strain relief housings



pole no.	L1	L2	L3	L4	L5	D
2	71.7	76.7	64.4	10	31.5	5
3	71.7	76.7	64.4	15	31.5	9.7
4	71.7	76.7	64.4	20	31.5	14
5	71.7	76.7	64.4	25	31.5	14
6	71.7	76.7	64.4	30	31.5	15.5
7	77.7	81.7	69.4	35	36.5	15.5
8	86.2	91.2	78.9	40	46	15.5
9	86.2	91.2	78.9	45	46	15.5
10	86.2	91.2	78.9	50	46	15.5
11	86.2	91.2	78.9	55	46	15.5
12	86.2	91.2	78.9	60	46	15.5
13	86.2	91.2	78.9	65	46	15.5
14	86.2	91.2	78.9	70	46	15.5
15	86.2	91.2	78.9	75	46	15.5



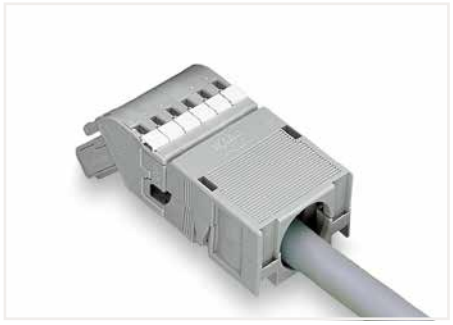
Male header and 1-conductor female plug with lateral locking levers

Snap-on type strain relief housing; consists of strain relief support and housing; gray

Pole No.	Item No.	Pack. Unit
2	769-1602 ❶	100
3	769-1603 ❶	100
4	769-1604 ❶	100
5	769-1605 ❶	50

Snap-on type strain relief housing; consists of strain relief support and housing; gray

Pole No.	Item No.	Pack. Unit
2	769-1606 ❷	100
3	769-1607 ❷	100
4	769-1608 ❸	50
5	769-1609 ❸	50
6	769-1610 ❹	50
7	769-1611 ❹	25
8	769-1612 ❹	25
9	769-1613 ❹	25
10	769-1614 ❹	25
11	769-1615 ❹	25



Snap-on type strain relief housing; consists of strain relief support and housing; 6-pole and 1-conductor female plug; angled; 6-pole

Accessories; item-specific

WSB Quick Marking System; white; 10 strips with 10 markers/card; for 5 … 17.5 mm terminal block width

plain	209-501	5

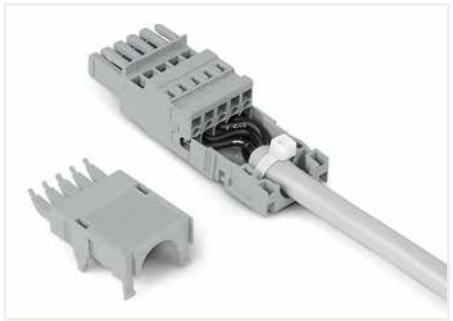
Accessories; item-specific

Cable clamp; for strain relief

6 or more poles	209-174	25

Mounting screw; for cable clamp

6 or more poles	209-173	50

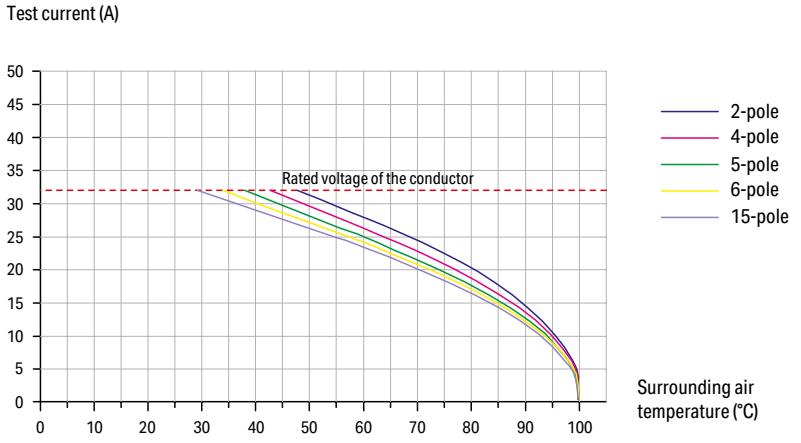


2- to 5-pole strain relief housings feature one cable outlet (rear side).
6- to 9-pole strain relief housings feature two cable outlets and one cover.
10- to 16-pole strain relief housings feature three cable outlets and two covers.

CAGE CLAMP®

1-Conductor/1-Pin and 2-Pin Carrier Terminal Blocks and 1-Conductor Female Plugs X-COM®-SYSTEM

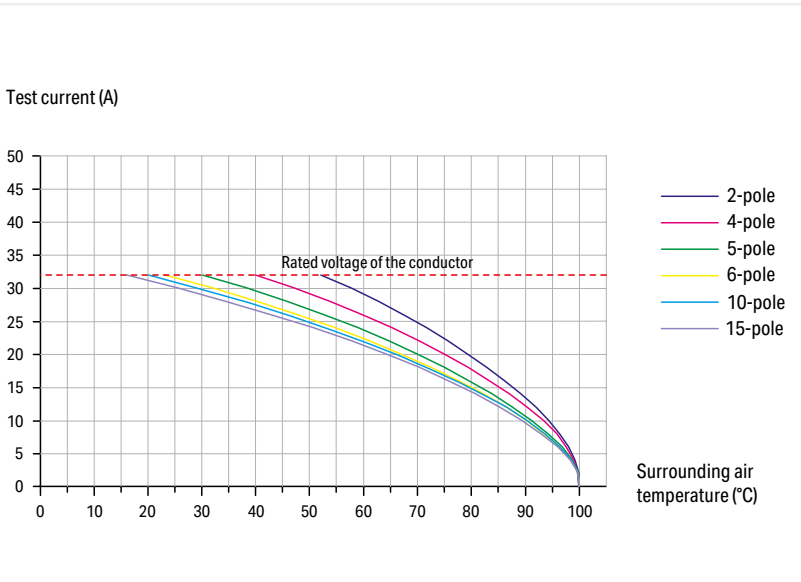
Current-Carrying Capacity Curves



1-conductor/1-pin carrier terminal block (769-176)
Conductor cross section: 4 mm² (12 AWG)

1-conductor female plugs (769-102 to 769-115)
Conductor cross section: 4 mm² (12 AWG)
Conductor loop length: 1 m

6



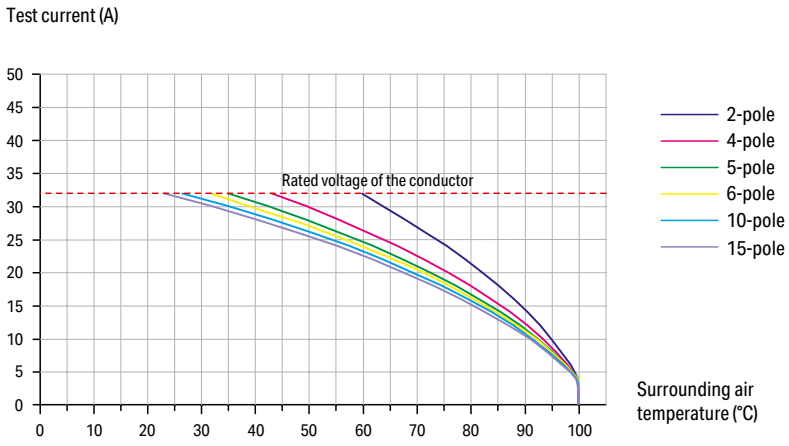
2-pin carrier terminal block (769-156)

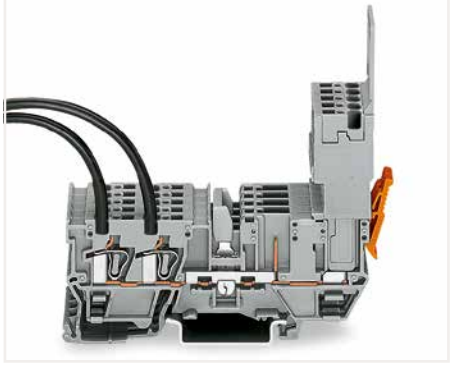
1-conductor female plugs (769-102 to 769-115)
Conductor cross section: 4 mm² (12 AWG)
Conductor loop length: 1 m

CAGE CLAMP®

2-Conductor/2-Pin and 4-Pin Carrier Terminal Blocks and 1-Conductor Female Plugs X-COM®-SYSTEM

Current-Carrying Capacity Curves

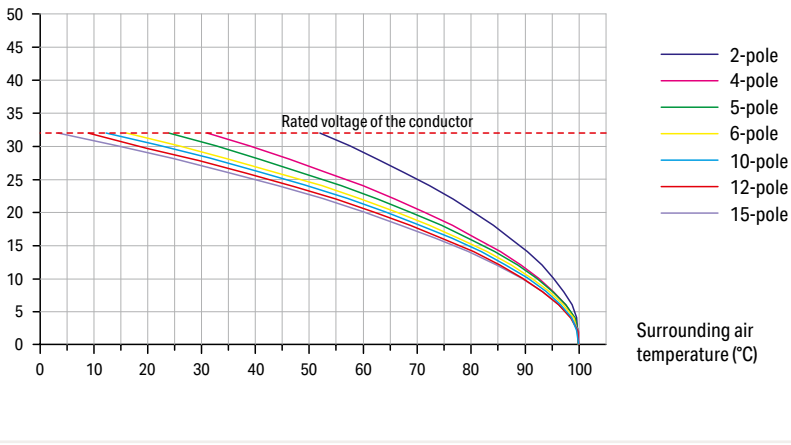




2-conductor/2-pin carrier terminal block (769-171)
Conductor cross section: 4 mm² (12 AWG)

1-conductor female plugs (769-102 to 769-115)
Conductor cross section: 4 mm² (12 AWG)
Conductor loop length: 1 m

6



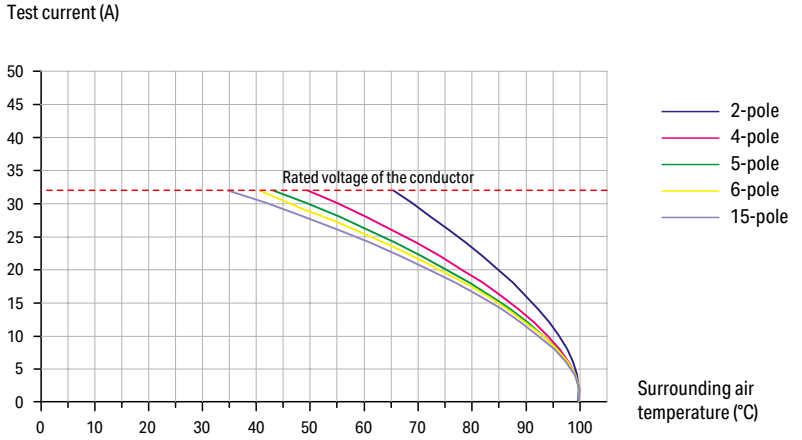
4-pin carrier terminal block (769-151)

1-conductor female plugs (769-102 to 769-115)
Conductor cross section: 4 mm² (12 AWG)
Conductor loop length: 1 m

CAGE CLAMP®

Male Connectors; with CAGE CLAMP® Connection and 1-Conductor Female Plugs X-COM®-SYSTEM

Current-Carrying Capacity Curves



Male connectors with
CAGE CLAMP® connection (769-602 to 769-615)
Conductor cross section: 4 mm² (12 AWG)

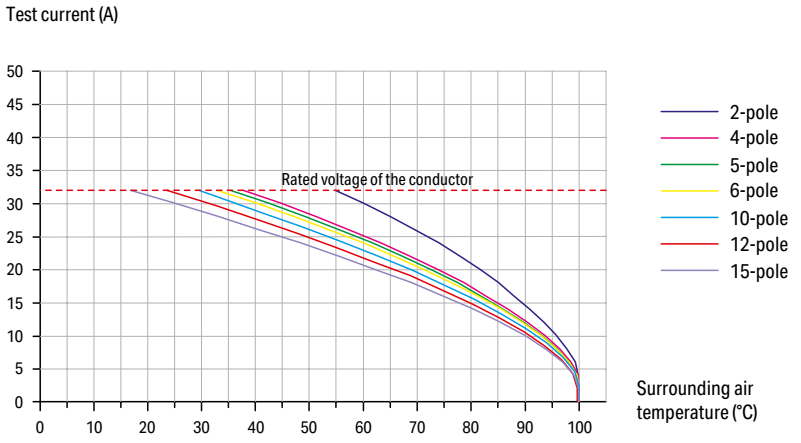
1-conductor female plugs (769-102 to 769-115)
Conductor cross section: 4 mm² (12 AWG)
Conductor loop length: 1 m

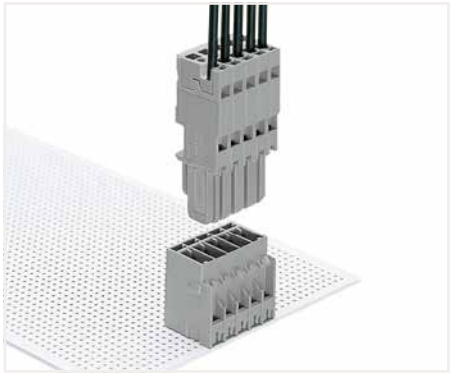
6

CAGE CLAMP®

Male Headers with Straight/Angled Solder Pins and 1-Conductor Female Plugs X-COM®-SYSTEM

Current-Carrying Capacity Curves

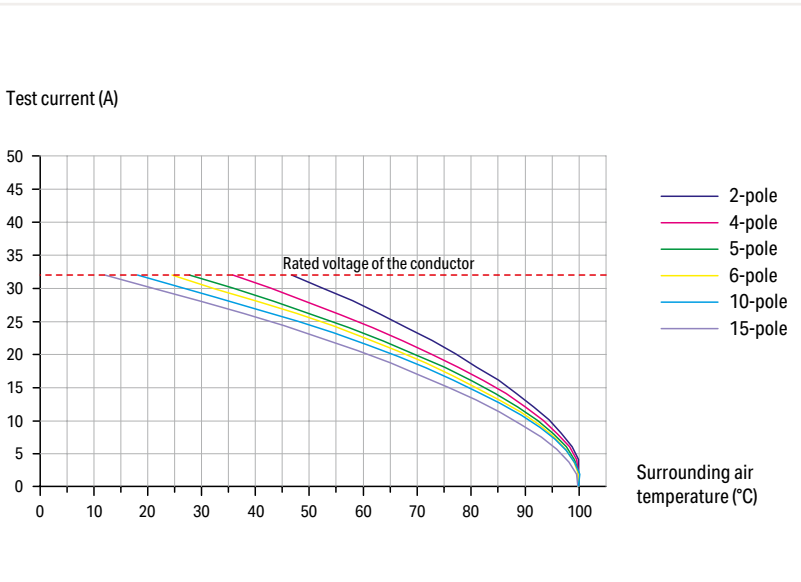


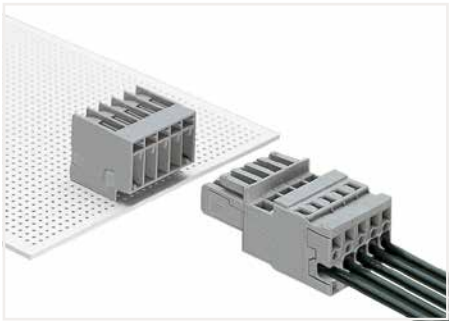


Male headers with straight solder pins (769-632 to 769-645)

1-conductor female plugs (769-102 to 769-115)
Conductor cross section: 4 mm² (12 AWG)
Conductor loop length: 1 m

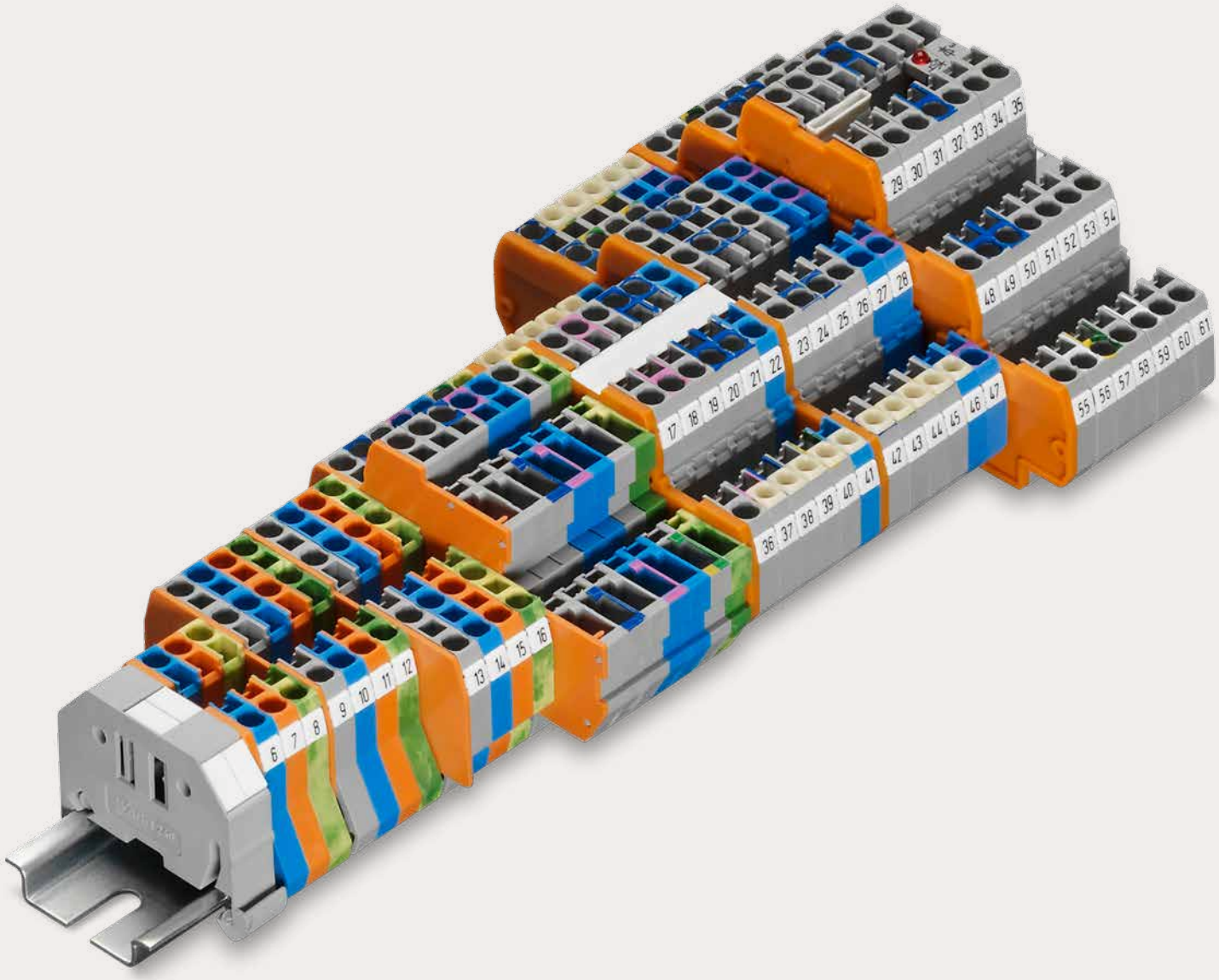
6





Male headers with angled solder pins (769-662 to 769-675)

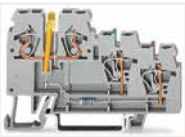
1-conductor female plugs (769-102 to 769-115)
Conductor cross section: 4 mm² (12 AWG)
Conductor loop length: 1 m



WAGO Rail-Mount Terminal Blocks Mini
WAGO Rail-Mount Terminal Blocks Compact

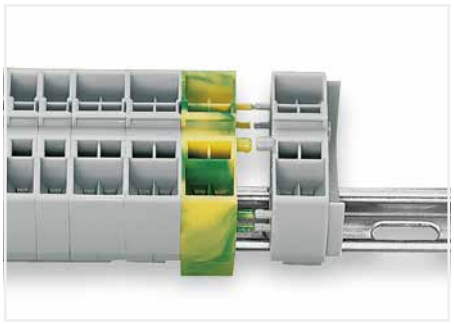
CAGE CLAMP®

WAGO Rail-Mount Terminal Blocks Mini
WAGO Rail-Mount Terminal Blocks Compact
Front-Entry Wiring

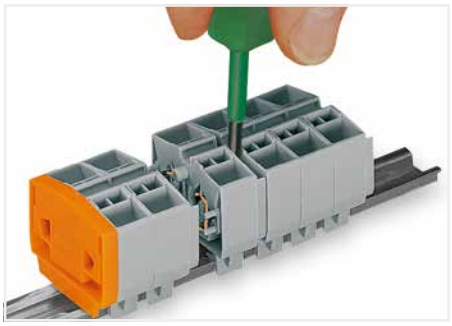
			Page
	Through, Ground Conductor and Ex Terminal Blocks for DIN-35 and DIN-15 Rails 0.08 … 2.5 mm² (28 … 12 AWG)	264 Series	426
	Through, Ground Conductor and Ex Terminal Blocks for DIN-35 and DIN-15 Rails 0.08 … 2.5 (4 “f-st”) mm² (28 … 12 AWG)	870 Series	430
	Multilevel Rail-Mount Terminal Blocks 0.08 … 2.5 (4 “f-st”) mm² (28 … 12 AWG)	870 Series	432
	Multilevel Diode and LED Terminal Blocks 0.08 … 2.5 (4 “f-st”) mm² (28 … 12 AWG)	870 Series	436
	**Sensor and Actuator Terminal Blocks** 0.08 … 2.5 mm² (28 … 12 AWG)	270 Series	443
	Accessories for Rail-Mount Terminal Blocks		441

7

Rail-Mount Terminal Blocks Mini; for DIN-15 and DIN-35 Rails
264 Series
Description and Installation



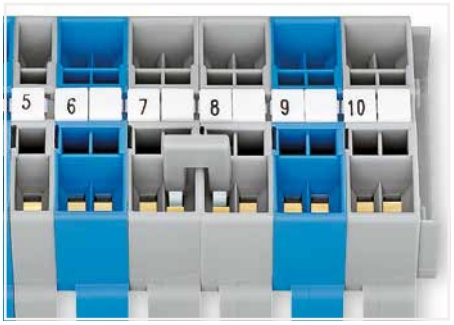
Quick assembly keys prevent reverse mounting.



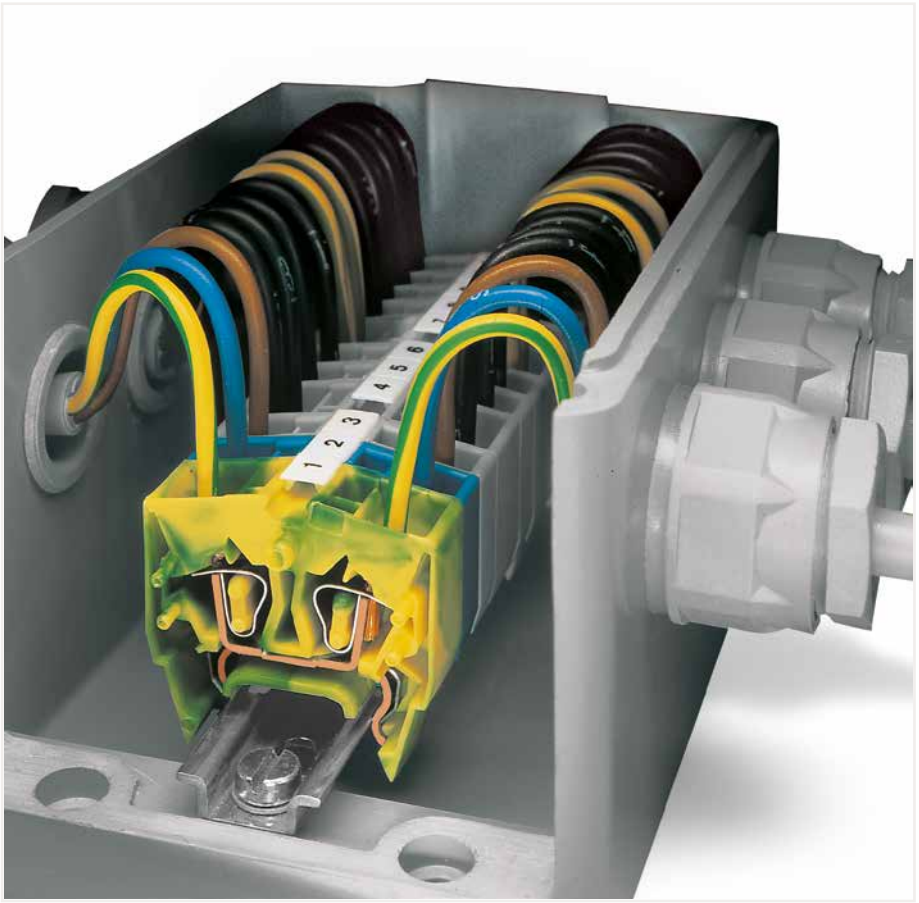
Separate terminal strip and slide individual terminal block laterally.

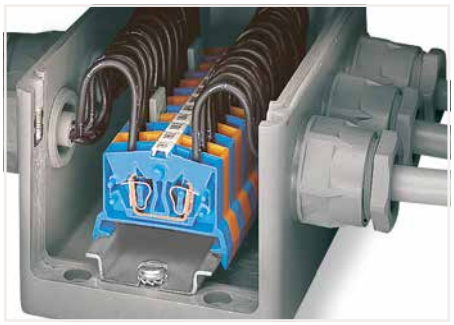
Remove terminal block from the DIN-rail with a levering action.

Commoning with comb-style jumper bar.



Commoning with comb-style jumper bar.





Easy-to-use miniature blocks that require minimal enclosure space.

Combining 2- and 4-conductor terminal blocks. Marking via Mini-WSB Quick Marking System.

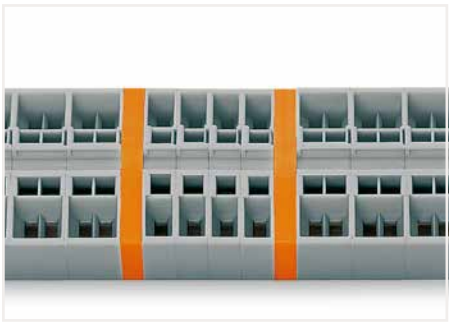
CAGE CLAMP® terminates the following copper conductors:
solid

stranded

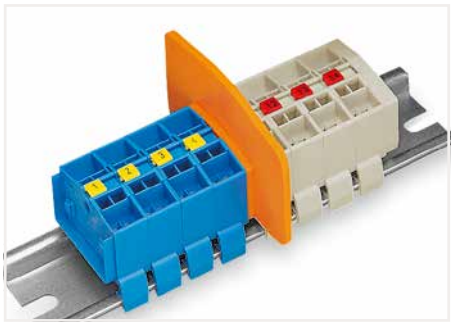
fine-stranded, also with tinned single strands

For aluminum conductors, see notes in Section 14.

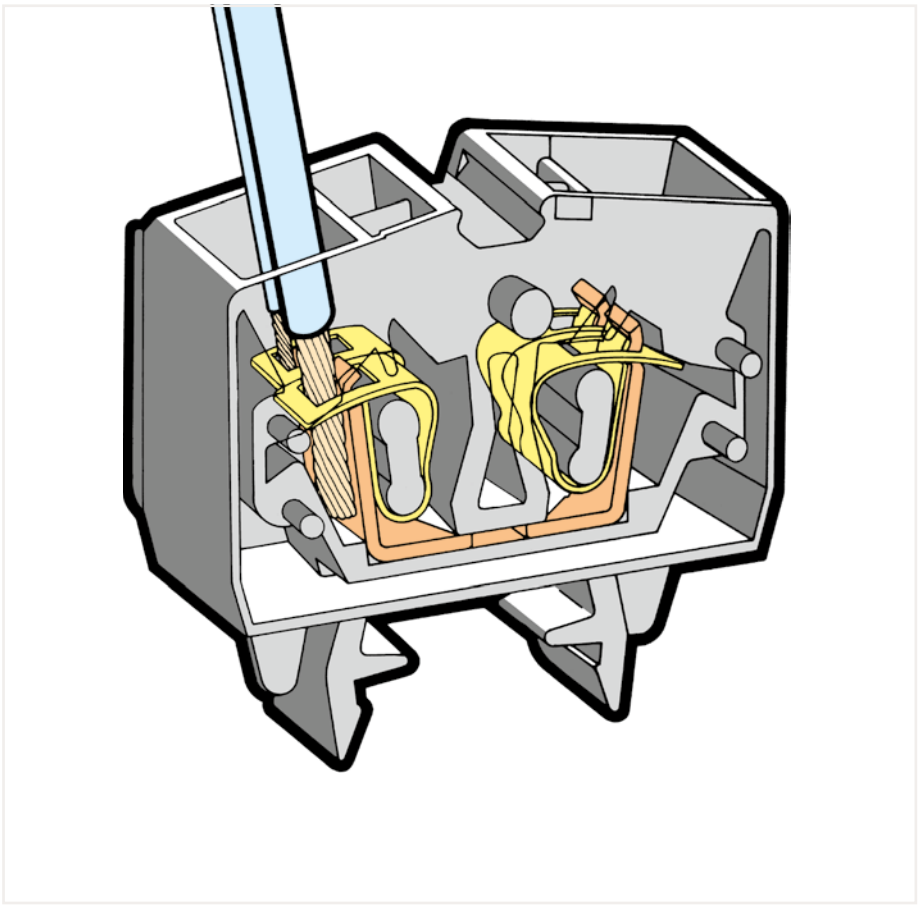
CAGE CLAMP® termination:
Inserting a conductor.
With ferruled conductors, it is necessary to use a terminal block one size smaller than the conductor's nominal cross section.



Separating groups via intermediate plates.



Ex e/Ex i separator plate for miniature rail-mount terminal blocks



Testing by touch contact to the CAGE CLAMP® spring (limited to 0.5 A and 48 V test voltage) – test pins are not protected against accidental contact.

Testing via CAGE CLAMP® on the current bar (max. nominal current: 6 A) – CAGE CLAMP® clamps individual test contacts.
The maximum test voltage is 400 V.

Marking with T-marker tag (209-290).

fine-stranded, tip-bonded

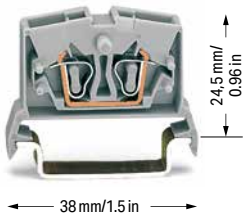
fine-stranded, with ferrule (gastight crimped)

fine-stranded, with pin terminal (gastight crimped)

CAGE CLAMP®

Miniature Through/Ground Conductor and Ex Terminal Block; for DIN-35 Rail
2.5 mm²; 264 Series

Technical Data	
0.08 … 2.5 mm²	28 … 12 AWG*
800 V/8 kV/3 ❶	300 V, 20 A
I_N 24 A	600 V, 20 A
Terminal block width: 6 mm / 0.236 inch	
8 … 9 mm / 0.31 … 0.35 inch	



2-conductor miniature through terminal block; for DIN-35 rail

Color	Item No.	Pack. Unit
gray	264-711	100
blue	264-714 ❷	100
orange	264-716	100
light gray	264-125 ❸	100

Accessories; item-specific

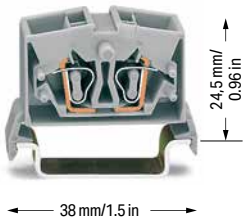
Alternate comb-style jumper bar; insulated; I_N = I_N of terminal block

2-way	281-492	100 (25)

Test plug module; snaps together; 6 mm wide

gray	249-136	100 (25)

Technical Data	
0.08 … 2.5 mm²	28 … 12 AWG*
800 V/8 kV/3 ❶	300 V, 20 A
I_N 24 A	600 V, 20 A
Terminal block width: 10 mm / 0.394 inch	
8 … 9 mm / 0.31 … 0.35 inch	



4-conductor miniature through terminal block; for DIN-35 rail

Color	Item No.	Pack. Unit
gray	264-731	100
blue	264-734 ❷	100
orange	264-736	100
light gray	264-225 ❸	100

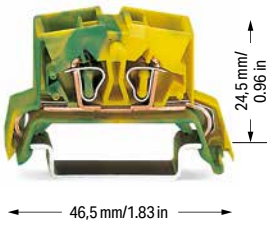
Accessories; item-specific

Alternate comb-style jumper bar; insulated; I_N = I_N of terminal block

2-way	280-492	200 (25)

Test plug module; snaps together; 10 mm wide

gray	249-139	100 (25)



4-conductor miniature ground terminal block; for DIN-35 rail

Color	Item No.	Pack. Unit
green-yellow	264-737	100
green-yellow	264-737/999-950 ❸	100

Accessories; item-specific

Alternate comb-style jumper bar; insulated; I_N = I_N of terminal block

2-way	280-492	200 (25)

Test plug module; snaps together; 10 mm wide

gray	249-139	100 (25)

*12 AWG: THHN, THWN

❶ 800 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

❷ Terminal blocks with a blue insulated housing are suitable for Ex i applications.

❸ Terminal blocks with an Ex mark are suitable for Ex e II applications.
0.5 … 2.5 mm² / 20 … 12 AWG*
690 V; 23 A
(see Section 14)

See application notes for:
Alternate comb-style jumper bar, page 347
Test plug module, page 474
Mini-WSB marking system, page 589

Approvals and corresponding ratings, visit www.wago.com

Accessories; 264 Series

Appropriate marking systems:
Mini-WSB/Mini-WSB Inline/T-marker tag

End and intermediate plate; 4 mm thick

orange	264-369	25
gray	264-368	25
light gray	264-370	25

Ex e/Ex i separator; orange; 4 mm thick

66 mm	264-367	25

Comb-style jumper bar; insulated; reduces maximum conductor size to 1.5 mm²; I_N 16 A; gray

2-way	264-402	200 (25)

Operating tool; insulated

2-way	280-432	1

Test plug; with 500 mm cable; 2 mm Ø; max. 42 V

red	210-136	50

Test plug; with 500 mm cable; 2 mm Ø; max. 42 V

yellow	210-137	50

Mini-WSB marking card; white; 10 strips with 10 markers/card; 5 mm wide markers

plain	248-501	5

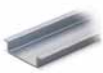
Screwless end stop; for DIN-35 rail; 6 mm wide

gray	249-116	100 (25)

Steel DIN-rail; per EN 60715; 35 x 7.5 mm; 1 mm thick; 2 m long

slotted	210-112	10 (1)
unslotted	210-113	10

Aluminum DIN-rail; similar to EN 60715; 35 x 8.2 mm; 1.6 mm thick; 2 m long



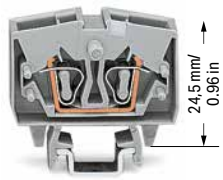
unslotted	210-196	10

7

CAGE CLAMP®

Miniature Through/Ground Conductor and Ex Terminal Block; for DIN-15 Rail
2.5 mm²; 264 Series

Technical Data	
0.08 … 2.5 mm²	28 … 12 AWG*
800 V/8 kV/3 ❶	300 V, 20 A
I_N 24 A	600 V, 20 A
Terminal block width: 6 mm / 0.236 inch	
8 … 9 mm / 0.31 … 0.35 inch	



32 mm/1.26 in

2-conductor miniature through terminal block; for DIN-15 rail

Color	Item No.	Pack. Unit
gray	264-701	100
blue	264-704 ❷	100
orange	264-706	100
light gray	264-120 ❸	100

Accessories; item-specific

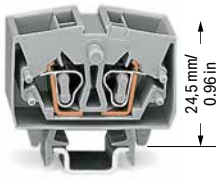
Alternate comb-style jumper bar; insulated; I_N = I_N of terminal block

	2-way	281-492	100 (25)

Test plug module; snaps together; 6 mm wide

	gray	249-136	100 (25)

Technical Data	
0.08 … 2.5 mm²	28 … 12 AWG*
800 V/8 kV/3 ❶	300 V, 20 A
I_N 24 A	600 V, 20 A
Terminal block width: 10 mm / 0.394 inch	
8 … 9 mm / 0.31 … 0.35 inch	



32 mm/1.26 in

4-conductor miniature through terminal block; for DIN-15 rail

Color	Item No.	Pack. Unit
gray	264-721	100
blue	264-724 ❷	100
orange	264-726	100
light gray	264-220 ❸	100

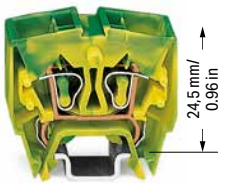
Accessories; item-specific

Alternate comb-style jumper bar; insulated; I_N = I_N of terminal block

	2-way	280-492	200 (25)

Test plug module; snaps together; 10 mm wide

	gray	249-139	100 (25)



32 mm/1.26 in

4-conductor miniature ground terminal block; for DIN-15 rail

Color	Item No.	Pack. Unit
green-yellow	264-727	100
green-yellow	264-727/999-950 ❸	100

Accessories; item-specific

Alternate comb-style jumper bar; insulated; I_N = I_N of terminal block

	2-way	280-492	200 (25)

Test plug module; snaps together; 10 mm wide

	gray	249-139	100 (25)

*12 AWG: THHN, THWN

❶ 800 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

❷ Terminal blocks with a blue insulated housing are suitable for Ex i applications.

❸ Terminal blocks with an Ex mark are suitable for Ex e II applications.
0.5 … 2.5 mm² / 20 … 12 AWG*
690 V; 23 A
(see Section 14)

See application notes for:
Alternate comb-style jumper bar, page 347
Test plug module, page 474
Mini-WSB marking system, page 589

Approvals and corresponding ratings, visit www.wago.com

Accessories; 264 Series

Appropriate marking systems:
Mini-WSB/Mini-WSB Inline/T-marker tag

End and intermediate plate; 4 mm thick

	orange	264-369	25
	gray	264-368	25
	light gray	264-370	25

Ex e/Ex i separator; orange; 4 mm thick

	66 mm	264-367	25

Comb-style jumper bar; insulated; reduces maximum conductor size to 1.5 mm²; I_N 16 A; gray

	2-way	264-402	200 (25)

Operating tool; insulated

	2-way	280-432	1

Operating tool; insulated

	1-way	209-130	1

Test plug; with 500 mm cable; 2 mm Ø; max. 42 V

	red	210-136	50
	yellow	210-137	50

Screwless end stop; for DIN-15 rail; 6 mm wide

	gray	249-101	25

Steel DIN-rail; per EN 60715; 15 x 5.5 mm; 1 mm thick; 2 m long

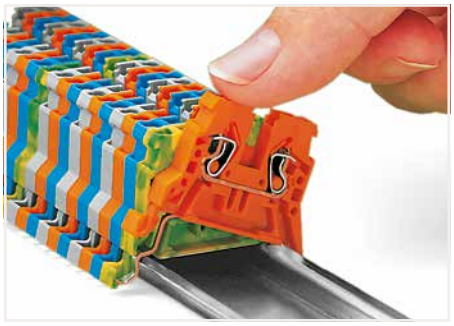
	slotted	210-111	10 (1)
	unslotted	210-295	10 (1)

Aluminum DIN-rail; similar to EN 60715; 15 x 5.5 mm; 1 mm thick; 2 m long

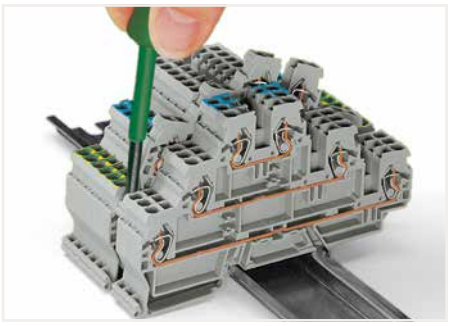
	unslotted	210-296	1

7

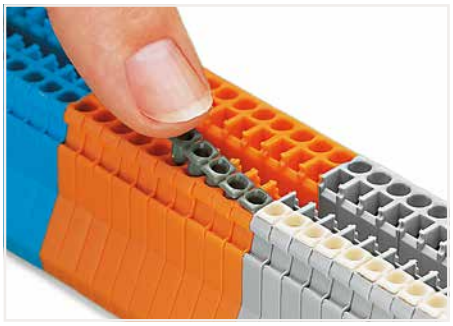
Rail-Mount Terminal Blocks Compact; for DIN-15 and DIN-35 Rails
870 Series
Description and Installation



Snapping a rail-mount terminal block onto DIN-35 rail.

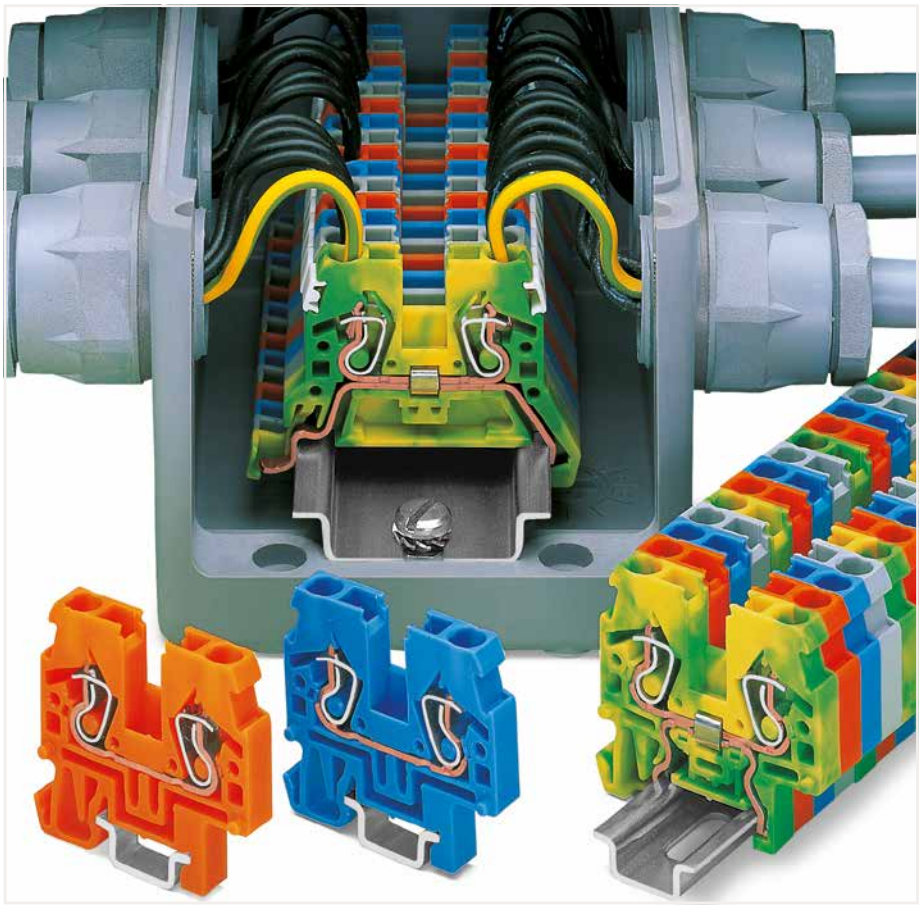


Removing a terminal block from the assembly.



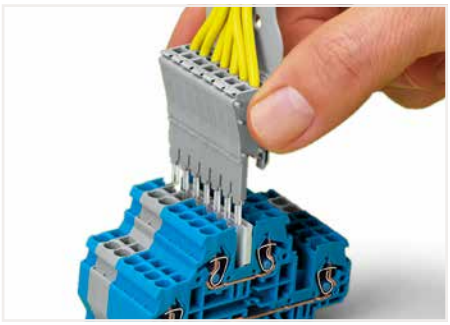
Inserting insulation stops into conductor entry holes of terminal strip.

Push jumper bars down firmly until fully inserted. When using multipole bars, push alternately on the right and then left side until installed.
Push-in type jumper bars 1 – 3 – 5 – 7 or 1 – 4 – 7 are available upon request.

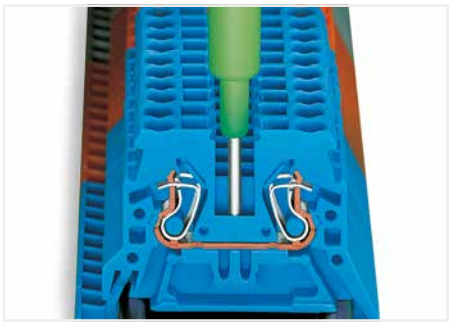


Commoning with push-in type jumper bars:
Two parallel jumper slots are accommodated in one terminal block.

Commoning terminal blocks of different sizes via step-down jumpers.



Testing:
Using a pre-wired module assembly, similar to test plugs.



Testing with phase testing device, also possible with single-pole voltage tester.

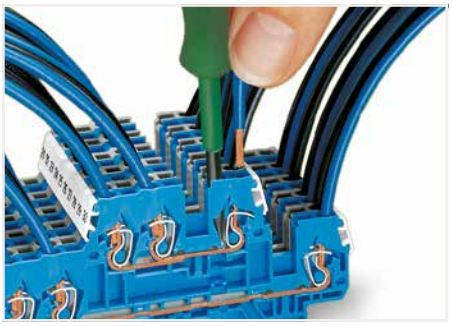
CAGE CLAMP® terminates the following copper conductors:
solid

stranded

fine-stranded, also with tinned single strands

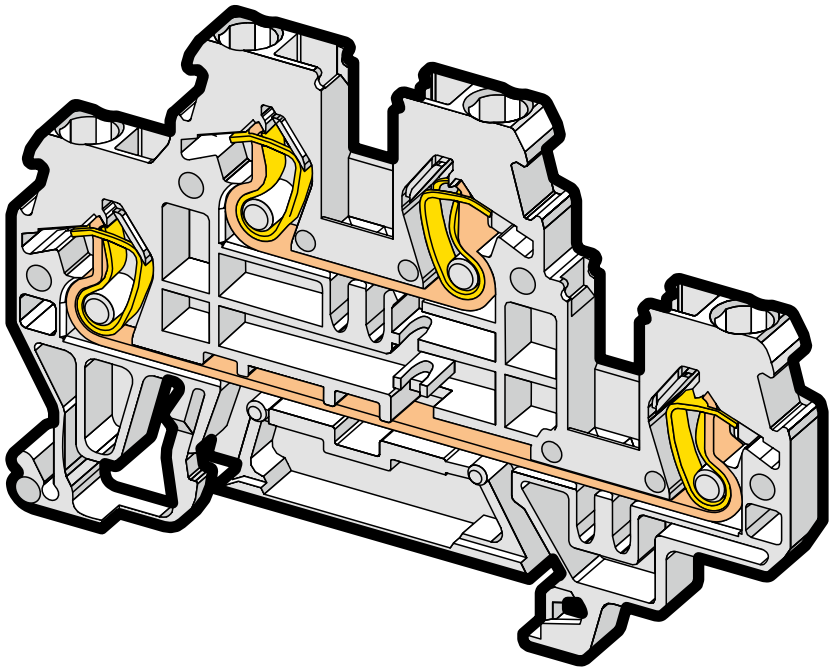
For aluminum conductors, see notes in Section 14.

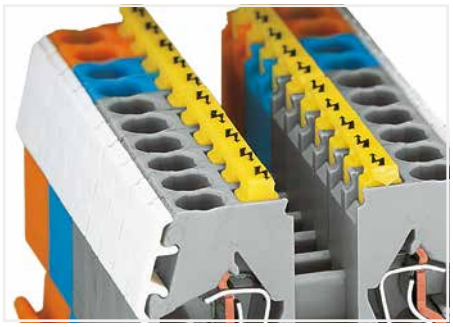
CAGE CLAMP® termination:
Inserting a conductor via operating tool (0.08 … 4 mm² "f-st").
With ferruled conductors, it is necessary to use a terminal block one size smaller than the conductor's nominal cross section.



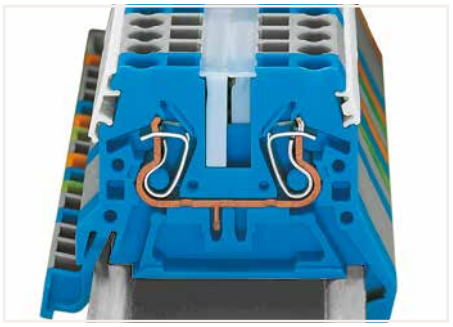
CAGE CLAMP® termination:
Inserting a conductor via operating tool (0.08 … 4 mm² "f-st").

Multilevel terminal blocks:
Double- and triple-deck terminal blocks with internal commoning acting as 4- and 6-conductor terminal blocks



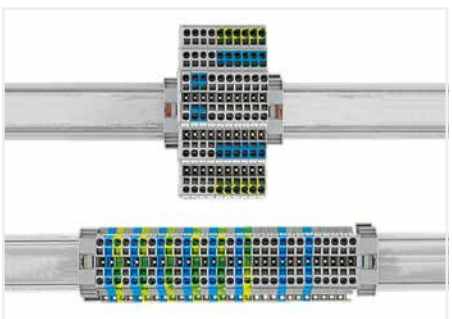


Protective warning marker (280-405); with a black high-voltage symbol



WMB markers in Mini-WSB marker slots
Marking strip; translucent
Mini-WSB markers

Use 50% less rail space with double-deck terminal blocks.



Use 67% less rail space with triple-deck terminal blocks.

Translucent marking strip (709-196) – jumpers below may be visible.

fine-stranded,
tip-bonded

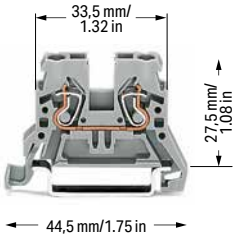
fine-stranded,
with ferrule
(gastight crimped)

fine-stranded,
with pin terminal
(gastight crimped)

Through/Ground Conductor/Ex and Double-Potential Terminal Block for DIN-35 and DIN-15 Rails

2.5 (4 “f-st”) mm²; 870 Series

Technical Data	
0.08 … 2.5 (4 “f-st”) mm² ❶	28 … 12 AWG
500 V/6 kV/3 ❷	300 V, 20 A
I_N 24 A	
Terminal block width: 5 mm / 0.197 inch	
6 … 7 mm / 0.24 … 0.28 inch	



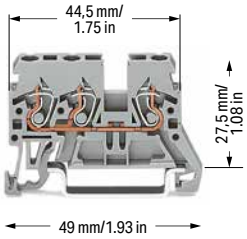
2-conductor through terminal block; for DIN-35 rail

Color	Item No.	Pack. Unit
gray	870-901	100
blue	870-904 ❸	100
orange	870-902	100
light gray	870-909 ❹	100

2-conductor ground terminal block; for DIN-35 rail
Notice: This ground conductor terminal block cannot be commoned with push-in type jumper bars!

green-yellow	870-907	100
green-yellow	870-907/999-950 ❹	100

Technical Data	
0.08 … 2.5 (4 “f-st”) mm² ❶	28 … 12 AWG
500 V/6 kV/3 ❷	300 V, 20 A
I_N 24 A	
Terminal block width: 5 mm / 0.197 inch	
6 … 7 mm / 0.24 … 0.28 inch	



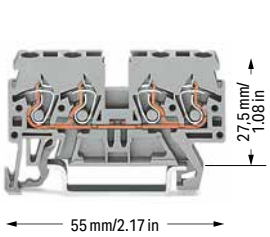
3-conductor through terminal block; for DIN-35 rail

Color	Item No.	Pack. Unit
gray	870-681	100
blue	870-684 ❸	100
orange	870-682	100

3-conductor ground terminal block; for DIN-35 rail
Notice: This ground conductor terminal block cannot be commoned with push-in type jumper bars!

green-yellow	870-687	100

Technical Data	
0.08 … 2.5 (4 “f-st”) mm² ❶	28 … 12 AWG
500 V/6 kV/3 ❷	300 V, 20 A
I_N 24 A	
Terminal block width: 5 mm / 0.197 inch	
6 … 7 mm / 0.24 … 0.28 inch	



4-conductor through terminal block; for DIN-35 rail

Color	Item No.	Pack. Unit
gray	870-831	100
blue	870-834 ❸	100
orange	870-832	100

4-conductor ground terminal block; for DIN-35 rail
Notice: This ground conductor terminal block cannot be commoned with push-in type jumper bars!

green-yellow	870-837	100

Other terminal blocks with the same profile:

Double-potential	870-826	Page 430

Accessories; item-specific

End and intermediate plate; 2 mm thick

orange	870-924	100 (25)
gray	870-923	100 (25)
light gray	870-925	100 (25)

Separator; oversized; 2 mm thick

orange	870-929	100 (25)
gray	870-928	100 (25)

End and intermediate plate; 2 mm thick; for 2-conductor ground conductor Ex terminal blocks only

green-yellow	870-926	100 (25)

Ex e/Ex i separator; orange; 3 mm thick

90 mm	209-190	50 (25)
120 mm	209-191	50 (25)

Accessories; item-specific

End and intermediate plate; 1 mm thick

orange	870-934	100 (25)
gray	870-933	100 (25)

Separator; oversized; 1 mm thick

orange	870-947	100 (25)
gray	870-946	100 (25)

Accessories; item-specific

End and intermediate plate; 1 mm thick

orange	870-944	100 (25)
gray	870-943	100 (25)

Separator; oversized; 1 mm thick

orange	870-949	100 (25)
gray	870-948	100 (25)

Accessories; 870 Series

Appropriate marking systems: Mini-WSB/Mini-WSB Inline/WMB/WMB Inline

Insulation stop; 0.08 … 0.2 mm² “s” (0.14 mm² “f-st”); 5 pcs/strip

white	280-470	200 (25)

Insulation stop; 0.25 … 0.5 mm²; 5 pcs/strip

light gray	280-471	200 (25)

Insulation stop; 0.75 … 1 mm²; 5 pcs/strip

dark gray	280-472	200 (25)

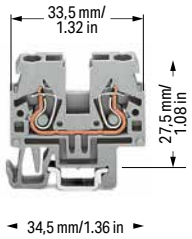
Push-in type jumper bar; insulated; I_N 18 A; light gray

2-way	870-402	200 (25)
3-way	870-403	200 (25)
4-way	870-404	100 (25)
5-way	870-405	100 (25)
6-way	870-406	100 (25)
7-way	870-407	100 (25)
8-way	870-408	100 (25)
9-way	870-409	100 (25)
10-way	870-410	50 (25)

Push-in type jumper bar; insulated; I_N 18 A; light gray

1 to 3	870-433	200 (25)
1 to 4	870-434	200 (25)
1 to 5	870-435	100 (25)
1 to 6	870-436	100 (25)
1 to 7	870-437	100 (25)
1 to 8	870-438	100 (25)
1 to 9	870-439	100 (25)
1 to 10	870-440	50 (25)

Technical Data	
0.08 … 2.5 (4 “f-st”) mm² ❶	28 … 12 AWG
500 V/6 kV/3 ❷	300 V, 20 A
I_N 24 A	
Terminal block width: 5 mm / 0.197 inch	
6 … 7 mm / 0.24 … 0.28 inch	



2-conductor through terminal block; for DIN-15 rail

Color	Item No.	Pack. Unit
gray	870-911	100
light gray	870-914 ❸	100
orange	870-912	100
light gray	870-919 ❹	100

2-conductor ground terminal block; for DIN-15 rail
Notice: This ground conductor terminal block cannot be commoned with push-in type jumper bars!

Color	Item No.	Pack. Unit
green-yellow	870-917	100

Accessories; item-specific

End and intermediate plate; 2 mm thick

orange	870-924	100 (25)
gray	870-923	100 (25)
light gray	870-925	100 (25)

Separator; oversized; 2 mm thick

orange	870-929	100 (25)
gray	870-928	100 (25)

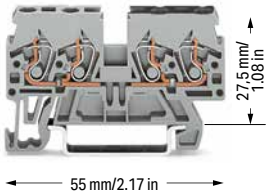
Protective warning marker; with black high-voltage symbol; for 5 terminal blocks

yellow	280-405	100 (25)

Tap-off module; with anti-reverse mating protection; snaps together; 5 mm wide

gray	870-425	100 (25)

Technical Data	
0.08 … 2.5 (4 “f-st”) mm² ❶	28 … 12 AWG
500 V/6 kV/3 ❷	300 V, 20 A
I_N 24 A	
Terminal block width: 5 mm / 0.197 inch	
6 … 7 mm / 0.24 … 0.28 inch	



Double-potential terminal block; with integrated marking level

Color	Item No.	Pack. Unit
gray	870-826	100

Notice: These double-potential terminal blocks cannot be commoned with push-in type jumper bars!
Front-entry double-potential terminal blocks are space savers.
Two independent feedthrough circuits are placed in one insulated housing on one level in just 5 mm. This achieves a width of just 2.5 mm versus standard through terminal blocks for a total height of just 27.5 mm from the upper-edge of DIN-rail.
Input and output of a circuit are placed on the same side of the terminal block. Both circuits can be individually marked according to input and output.
Technical data and accessories,
visit www.wago.com

Accessories; item-specific

End and intermediate plate; 1 mm thick

orange	870-944	100 (25)
gray	870-943	100 (25)

Separator; oversized; 1 mm thick

orange	870-949	100 (25)
gray	870-948	100 (25)

Mini-WSB marking card; white; 10 strips with 10 markers/card; 5 mm wide markers

plain	248-501	5

❶ Max. insulation diameter: 4.4 mm

❷ 500 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

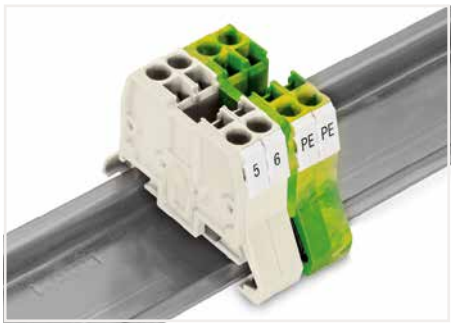
❸ Terminal blocks with a blue insulated housing are suitable for Ex i applications.

❹ Suitable for Ex e II applications
0.2 … 2.5 (4 “f-st”) mm² / 24 … 12 AWG
440 V; 22 A
(see Section 14)
Using one or more push-in type jumper bars, the maximum rated voltage is reduced to 275 V and the rated current to 13.5 A.

See application notes for:
Insulation stop, see page 346
Tap-off module, page 441
Group marker carrier, page 435

Approvals and corresponding ratings,
visit www.wago.com

Mounting on DIN-15 rail:
Snap individual terminal blocks onto the DIN-15 rail and slide together.
Removal from DIN-15 rail:
Open assembly by laterally sliding terminal blocks with an operating tool and remove them from the rail.

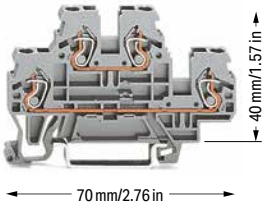


In order to meet creepage and clearance requirements for Ex e applications, it is necessary to insert an end or intermediate plate between a through and a ground conductor terminal block.
End plates 870-923 (gray), 870-924 (orange) and 870-925 (light gray), as well as separator plates 870-928 (gray) and 870-929 (orange) cannot be assembled to 2-conductor ground Ex terminal blocks (870-907/999-950).

CAGE CLAMP®

Double-Deck Terminal Block
2.5 (4 “f-st”) mm²; 870 Series

Technical Data	
0.08 … 2.5 (4 “f-st”) mm² ❶	28 … 12 AWG
500 V/6 kV/3 ❷	300 V, 20 A
I_N 24 A	
Terminal block width: 5 mm / 0.197 inch	
6 … 7 mm / 0.24 … 0.28 inch	



Double-deck terminal block; Through/through terminal block; Gray housing

	Item No.	Pack. Unit
L/L	870-501	50
N/L	870-502	50
L/N	870-503	50

Double-deck terminal block; Through/through terminal block; Blue housing

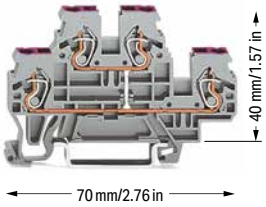
	Item No.	Pack. Unit
N/N	870-504 ❸	50

Double-deck terminal block; Through/through terminal block; Light gray housing

	Item No.	Pack. Unit
L/L	870-961 ❹	50

Other terminal blocks with the same profile:

Diode	870-540/281-410	Page 436
LED	870-543/281-434	Page 436



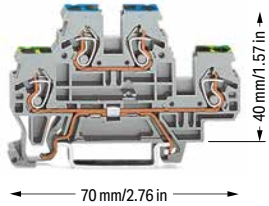
Double-deck terminal block; 4-conductor through terminal block; internally commoned; Violet conductor entry; Gray housing

	Item No.	Pack. Unit
L	870-508	50

Double-deck terminal block; 4-conductor through terminal block; internally commoned; Violet conductor entry; Blue housing

	Item No.	Pack. Unit
N	870-509 ❸	50

Technical Data	
0.08 … 2.5 (4 “f-st”) mm² ❶	28 … 12 AWG
500 V/6 kV/3 ❷	
I_N 24 A	
Terminal block width: 5 mm / 0.197 inch	
6 … 7 mm / 0.24 … 0.28 inch	

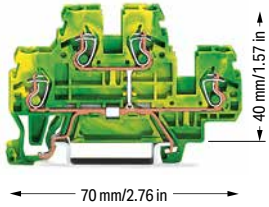


Double-deck terminal block; Ground conductor/through terminal block; Gray housing

	Item No.	Pack. Unit
GND/N	870-517	50
GND/L	870-527	50

Double-deck terminal block; Ground conductor/through terminal block; Light gray housing

	Item No.	Pack. Unit
GND/L	870-967/999-950 ❸	50



Double-deck terminal block; 4-conductor ground terminal block; internally commoned; Green-yellow housing

	Item No.	Pack. Unit
GND	870-507	50

❶ Max. insulation diameter: 4.4 mm

❷ 500 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

❸ Terminal blocks with a blue insulated housing are suitable for Ex i applications.

❹ Suitable for Ex e II applications
0.2 … 2.5 (4 “f-st”) mm² / 24 … 12 AWG
440 V; 22 A
(see Section 14)
Using one or more push-in type jumper bars, the maximum rated voltage is reduced to 275 V and the rated current to 13.5 A.

See application notes for:
Insulation stop, see page 346
Group marker carrier, page 435

Approvals and corresponding ratings, visit www.wago.com

Accessories; 870 Series

Appropriate marking systems:
Mini-WSB/Mini-WSB Inline/WMB/WMB Inline

End and intermediate plate; 2 mm thick

orange	870-519	100 (25)
gray	870-518	100 (25)

Ex e/Ex i separator; orange; 3 mm thick

125.5 mm	209-192	50 (25)

Insulation stop; 0.08 … 0.2 mm² “s” (0.14 mm² “f-st”); 5 pcs/strip

white	280-470	200 (25)

Insulation stop; 0.25 … 0.5 mm²; 5 pcs/strip

light gray	280-471	200 (25)

Insulation stop; 0.75 … 1 mm²; 5 pcs/strip

dark gray	280-472	200 (25)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks

yellow	280-405	100 (25)

Push-in type jumper bar; insulated; I_N 18 A; light gray

2-way	870-402	200 (25)
3-way	870-403	200 (25)
4-way	870-404	100 (25)
5-way	870-405	100 (25)
6-way	870-406	100 (25)
7-way	870-407	100 (25)
8-way	870-408	100 (25)
9-way	870-409	100 (25)
10-way	870-410	50 (25)

Push-in type jumper bar; insulated; I_N 18 A; light gray

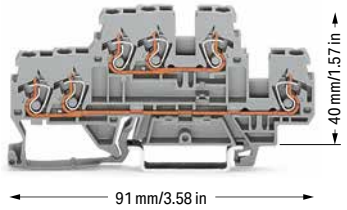
1 to 3	870-433	200 (25)
1 to 4	870-434	200 (25)
1 to 5	870-435	100 (25)
1 to 6	870-436	100 (25)
1 to 7	870-437	100 (25)
1 to 8	870-438	100 (25)
1 to 9	870-439	100 (25)
1 to 10	870-440	50 (25)

7

CAGE CLAMP®

3-Conductor Double-Deck Terminal Block
2.5 (4 “f-st”) mm²; 870 Series

Technical Data	
0.08 … 2.5 (4 “f-st”) mm² ❶	28 … 12 AWG
500 V/6 kV/3 ❷	300 V, 20 A
I_N 24 A	
Terminal block width: 5 mm / 0.197 inch	
6 … 7 mm / 0.24 … 0.28 inch	



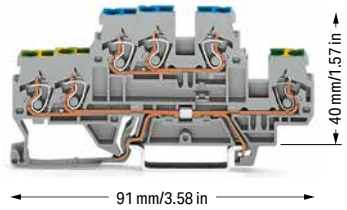
3-conductor double-deck terminal block; Through/through terminal block; Gray housing

	Item No.	Pack. Unit
L/L	870-531	50
N/L	870-532	50
L/N	870-533	50

3-conductor double-deck terminal block; Through/through terminal block; Blue housing

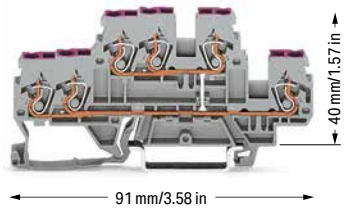
	Item No.	Pack. Unit
N/N	870-534 ❸	50

Technical Data	
0.08 … 2.5 (4 “f-st”) mm² ❶	28 … 12 AWG
500 V/6 kV/3 ❷	
I_N 24 A	
Terminal block width: 5 mm / 0.197 inch	
6 … 7 mm / 0.24 … 0.28 inch	



3-conductor double-deck terminal block; Ground conductor/through terminal block; Gray housing

	Item No.	Pack. Unit
GND/N	870-535	50
GND/L	870-536	50

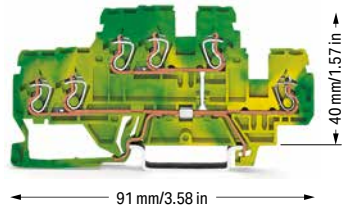


3-conductor double-deck terminal block; 6-conductor through terminal block; internally commoned; Violet conductor entry; Gray housing

	Item No.	Pack. Unit
L	870-538	50

3-conductor double-deck terminal block; 6-conductor through terminal block; internally commoned; Violet conductor entry; Blue housing

	Item No.	Pack. Unit
N	870-539 ❸	50



3-conductor double-deck terminal block; 6-conductor ground terminal block; internally commoned; Green-yellow housing

	Item No.	Pack. Unit
GND	870-537	50

❶ Max. insulation diameter: 4.4 mm

❷ 500 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

❸ Terminal blocks with a blue insulated housing are suitable for Ex i applications.

See application notes for:
Insulation stop, see page 346
Group marker carrier, page 435

Approvals and corresponding ratings, visit www.wago.com

Accessories; 870 Series

Appropriate marking systems:
Mini-WSB/Mini-WSB Inline/WMB/WMB Inline

End and intermediate plate; 2 mm thick

orange	870-574	100 (25)
gray	870-573	100 (25)

Insulation stop; 0.08 … 0.2 mm² “s” (0.14 mm² “f-st”); 5 pcs/strip

white	280-470	200 (25)

Insulation stop; 0.25 … 0.5 mm²; 5 pcs/strip

light gray	280-471	200 (25)

Insulation stop; 0.75 … 1 mm²; 5 pcs/strip

dark gray	280-472	200 (25)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks

yellow	280-405	100 (25)

Push-in type jumper bar; insulated; I_N 18 A; light gray

2-way	870-402	200 (25)
3-way	870-403	200 (25)
4-way	870-404	100 (25)
5-way	870-405	100 (25)
6-way	870-406	100 (25)
7-way	870-407	100 (25)
8-way	870-408	100 (25)
9-way	870-409	100 (25)
10-way	870-410	50 (25)

Push-in type jumper bar; insulated; I_N 18 A; light gray

1 to 3	870-433	200 (25)
1 to 4	870-434	200 (25)
1 to 5	870-435	100 (25)
1 to 6	870-436	100 (25)
1 to 7	870-437	100 (25)
1 to 8	870-438	100 (25)
1 to 9	870-439	100 (25)
1 to 10	870-440	50 (25)

Marking strip; plain; 7.5 mm wide; 1 m long

transluscent	709-196	1

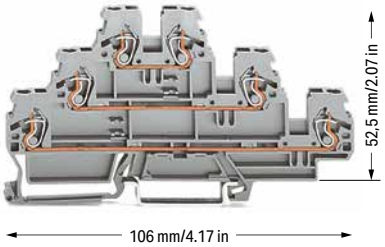
Mini-WSB marking card; white; 10 strips with 10 markers/card; 5 mm wide markers

plain	248-501	5

CAGE CLAMP®

Triple-Deck Terminal Block
2.5 (4 “f-st”) mm²; 870 Series

Technical Data	
0.08 … 2.5 (4 “f-st”) mm² ❶	28 … 12 AWG
500 V/6 kV/3 ❷	300 V, 20 A
I_N 24 A	
Terminal block width: 5 mm / 0.197 inch	
6 … 7 mm / 0.24 … 0.28 inch	



Triple-deck terminal block; Through/through/through terminal block; Gray housing

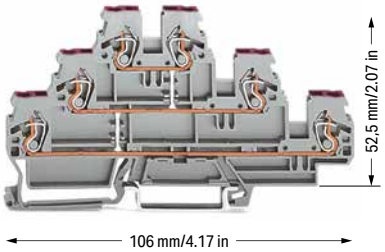
	Item No.	Pack. Unit
L/L/L	870-551	50
L/L/N	870-553	50

Triple-deck terminal block; Through/through/through terminal block; Light gray housing

	Item No.	Pack. Unit
L/L/L	870-951 ❸	50

Other terminal blocks with the same profile:

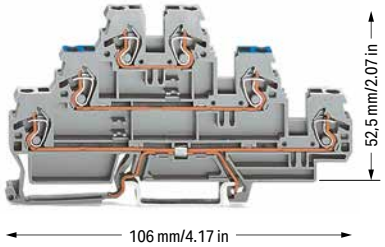
Diode	870-590/281-410	Page 438
LED	870-593/281-434	Page 438



Triple-deck terminal block; 6-conductor through terminal block; internally commoned; Violet conductor entry; Gray housing

	Item No.	Pack. Unit
L	870-556	50

Technical Data	
0.08 … 2.5 (4 “f-st”) mm² ❶	28 … 12 AWG
500 V/6 kV/3 ❷	
I_N 24 A	
Terminal block width: 5 mm / 0.197 inch	
6 … 7 mm / 0.24 … 0.28 inch	



Triple-deck terminal block; Shield conductor/through/through terminal block; Gray housing

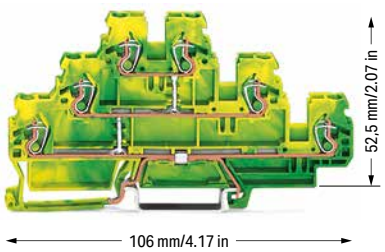
	Item No.	Pack. Unit
Shield/N/L	870-558	50
Shield/L/L	870-559	50

Triple-deck terminal block; Ground conductor/through/through terminal block; Gray housing

	Item No.	Pack. Unit
GND/N/L	870-567	50
GND/L/L	870-577	50

Triple-deck terminal block; Ground conductor/through/through terminal block; Light gray housing

	Item No.	Pack. Unit
GND/L/L	870-957/999-950 ❸	50



Triple-deck terminal block; 6-conductor ground terminal block; internally commoned; Green-yellow housing

	Item No.	Pack. Unit
GND	870-557	50

❶ Max. insulation diameter: 4.4 mm

❷ 500 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

❸ Terminal blocks with a blue insulated housing are suitable for Ex i applications.

❹ Suitable for Ex e II applications
0.2 … 2.5 (4 “f-st”) mm² / 24 … 12 AWG
440 V; 22 A
(see Section 14)
Using one or more push-in type jumper bars, the maximum rated voltage is reduced to 275 V and the rated current to 13.5 A.

See application notes for:
Insulation stop, see page 346
Group marker carrier, page 435

Approvals and corresponding ratings, visit www.wago.com

Accessories; 870 Series

Appropriate marking systems:
Mini-WSB/Mini-WSB Inline/WMB/WMB Inline

End and intermediate plate; 2 mm thick

orange	870-569	100 (25)
gray	870-568	100 (25)

Insulation stop; 0.08 … 0.2 mm² “s” (0.14 mm² “f-st”); 5 pcs/strip

white	280-470	200 (25)

Insulation stop; 0.25 … 0.5 mm²; 5 pcs/strip

light gray	280-471	200 (25)

Insulation stop; 0.75 … 1 mm²; 5 pcs/strip

dark gray	280-472	200 (25)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks

yellow	280-405	100 (25)

Push-in type jumper bar; insulated; I_N 18 A; light gray

2-way	870-402	200 (25)
3-way	870-403	200 (25)
4-way	870-404	100 (25)
5-way	870-405	100 (25)
6-way	870-406	100 (25)
7-way	870-407	100 (25)
8-way	870-408	100 (25)
9-way	870-409	100 (25)
10-way	870-410	50 (25)

Push-in type jumper bar; insulated; I_N 18 A; light gray

1 to 3	870-433	200 (25)
1 to 4	870-434	200 (25)
1 to 5	870-435	100 (25)
1 to 6	870-436	100 (25)
1 to 7	870-437	100 (25)
1 to 8	870-438	100 (25)
1 to 9	870-439	100 (25)
1 to 10	870-440	50 (25)

Marking strip; plain; 7.5 mm wide; 1 m long

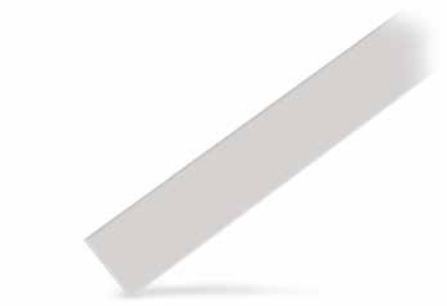
transluscent	709-196	1

Group Marker Carrier, Marking Strip and Push-In Type Jumper Bar

Group marker carrier; fits into the jumper slot of the current bars Module width: 5 mm		
Color	Item No.	Pack. Unit
gray	870-184	50 (25)

Group marker carrier; fits into the jumper slot of the current bars Module width: 10 mm		
gray	870-183	50 (25)

Group marker carrier; fits into the jumper slot of the current bars Module width: 15 mm		
gray	870-182	50 (25)



Marking strip; plain; 7.5 mm wide; 1 m long		
Color	Item No.	Pack. Unit
transluscent	709-196	50 (25)

In addition to the plastic marker strips, group marker carriers are now available for the WMB and WSB marking systems. They can be mounted in parallel to a push-in type jumper bar via the open jumper contact slot. It is also very useful if the marker slots on the side of the terminal block are hidden. The carriers are available in the following widths: 5 mm (0.197 inch), 10 mm (0.394 inch) and 15 mm (0.591 inch).

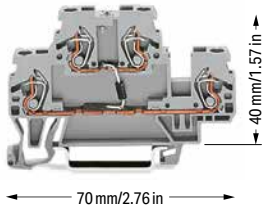
Notice:
Group marker carriers are not suitable for ground conductor terminal blocks and double potential terminal blocks as they have no jumper contact slots.

Ready-made push-in type jumper bar; insulated; I_N 18 A; light gray		
	Item No.	Pack. Unit
1-3-5	870-405/011-000	200 (25)
1-3-5-7	870-407/011-000	200 (25)
1-3-5-7-9	870-409/011-000	100 (25)

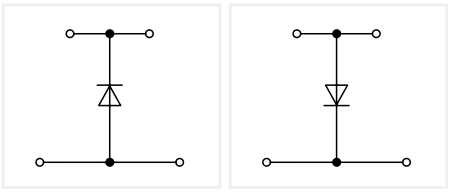
Delta jumper; insulated; 1-2 3-4 5-6; I_N 18 A		
Color	Item No.	Pack. Unit
light gray	870-406/020-000	100 (25)

Double-Deck Diode Terminal Block and LED Terminal Block
2.5 (4 “f-st”) mm²; 870 Series

Technical Data	
0.08 … 2.5 (4 “f-st”) mm² ❶	28 … 12 AWG
U_N 250 V; U_{RM} 1000 V	
1N4007 – 0.5 A continuous current	
Terminal block width: 5 mm / 0.197 inch	
6 … 7 mm / 0.24 … 0.28 inch	



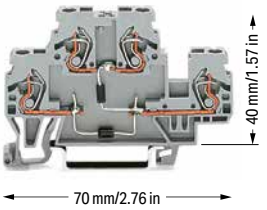
870-540/281-410 870-540/281-411



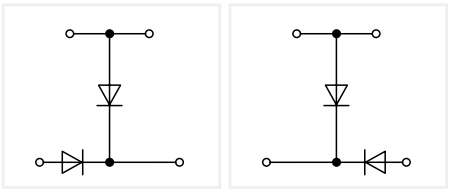
Double-deck diode terminal block; with 1N4007 diode		
Color	Item No.	Pack. Unit
gray	870-540/281-410	50
gray	870-540/281-411	50

Other terminal blocks with the same profile:		
Through	870-501	Page 432

Technical Data	
0.08 … 2.5 (4 “f-st”) mm² ❶	28 … 12 AWG
U_N 250 V; U_{RM} 1000 V	
1N4007 – 0.5 A continuous current	
Terminal block width: 5 mm / 0.197 inch	
6 … 7 mm / 0.24 … 0.28 inch	

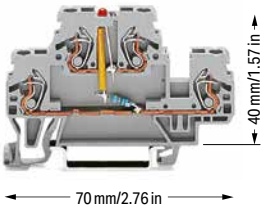


870-541/281-492 870-541/281-491

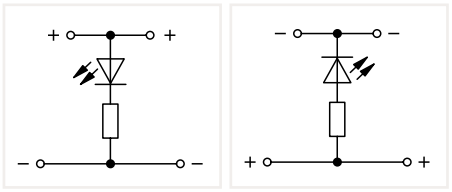


Double-deck diode terminal block; with two 1N4007 diodes		
Color	Item No.	Pack. Unit
gray	870-541/281-492	50
gray	870-541/281-491	50

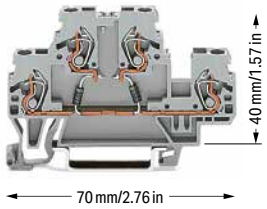
Technical Data	
0.08 … 2.5 (4 “f-st”) mm² ❶	28 … 12 AWG
24 VDC	
I_F 0.025 A max.	
Terminal block width: 5 mm / 0.197 inch	
6 … 7 mm / 0.24 … 0.28 inch	



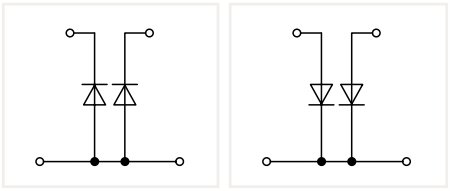
870-543/281-413 870-543/281-434



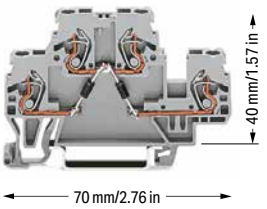
Double-deck LED terminal block; with red LED		
Color	Item No.	Pack. Unit
gray	870-543/281-413	50
gray	870-543/281-434	50



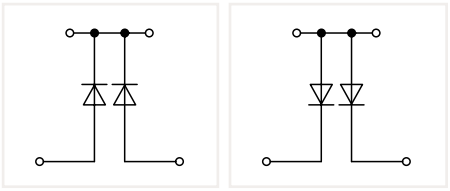
870-542/281-487 870-542/281-488



Double-deck diode terminal block; with two 1N4007 diodes		
Color	Item No.	Pack. Unit
gray	870-542/281-487	50
gray	870-542/281-488	50



870-541/281-489 870-541/281-490



Double-deck diode terminal block; with two 1N4007 diodes		
Color	Item No.	Pack. Unit
gray	870-541/281-489	50
gray	870-541/281-490	50

CAGE CLAMP®

Double-Deck Diode Terminal Blocks and LED Terminal Blocks
Circuit Configuration Examples

❶ Max. insulation diameter: 4.4 mm

See application notes for:
Insulation stop, see page 346
Group marker carrier, page 435

Approvals and corresponding ratings, visit www.wago.com

Accessories; 870 Series

Appropriate marking systems:
Mini-WSB/Mini-WSB Inline/WMB/WMB Inline

End and intermediate plate; 2 mm thick

orange	870-519	100 (25)
gray	870-518	100 (25)

Insulation stop; 0.08 … 0.2 mm² "s" (0.14 mm² "f-st"); 5 pcs/strip

white	280-470	200 (25)

Insulation stop; 0.25 … 0.5 mm²; 5 pcs/strip

light gray	280-471	200 (25)

Insulation stop; 0.75 … 1 mm²; 5 pcs/strip

dark gray	280-472	200 (25)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks

yellow	280-405	100 (25)

Push-in type jumper bar; insulated; I_N 18 A; light gray

2-way	870-402	200 (25)
3-way	870-403	200 (25)
4-way	870-404	100 (25)
5-way	870-405	100 (25)
6-way	870-406	100 (25)
7-way	870-407	100 (25)
8-way	870-408	100 (25)
9-way	870-409	100 (25)
10-way	870-410	50 (25)

Push-in type jumper bar; insulated; I_N 18 A; light gray

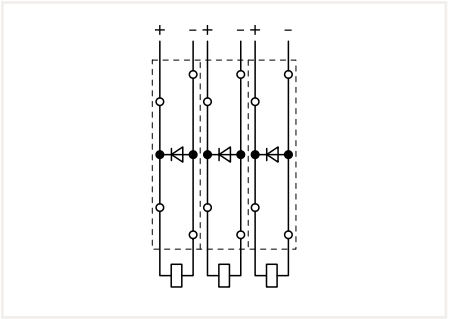
1 to 3	870-433	200 (25)
1 to 4	870-434	200 (25)
1 to 5	870-435	100 (25)
1 to 6	870-436	100 (25)
1 to 7	870-437	100 (25)
1 to 8	870-438	100 (25)
1 to 9	870-439	100 (25)
1 to 10	870-440	50 (25)

Marking strip; plain; 7.5 mm wide; 1 m long

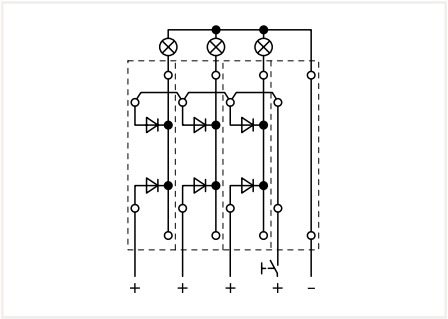
transluscent	709-196	1

Mini-WSB marking card; white; 10 strips with 10 markers/card; 5 mm wide markers

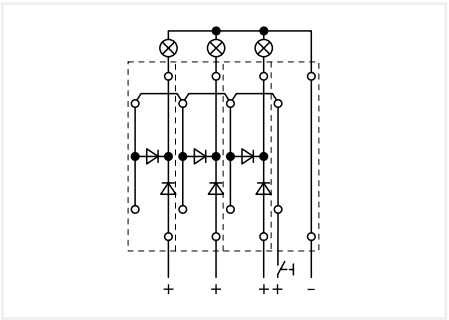
plain	248-501	5



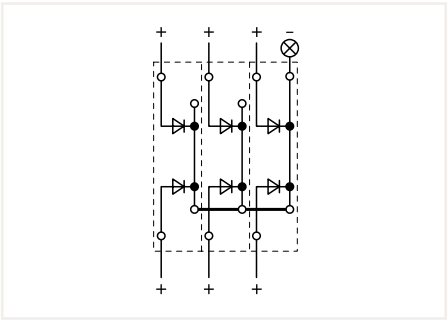
Recovery diodes can be created using the following terminal blocks:
870-540/281-410 or 870-540/281-411



Lamp test circuits can be created using the following terminal blocks:
870-542/281-487 or 870-542/281-488



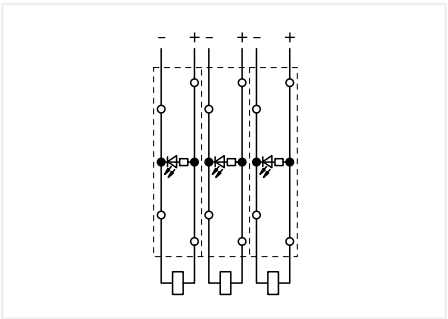
Lamp test circuits can be created using the following terminal blocks:
870-541/281-492 or 870-541/281-491



Collective fault signals can be created using the following terminal blocks:
870-541/281-489 or 870-541/281-490

Double-deck diode terminal blocks were specifically developed for custom diode circuits, such as lamp test and collective fault signal circuits.
Using LED terminal blocks, monitoring units can be designed, e.g., for control and operating circuits.
These terminal blocks provide high-density wiring in a width of just 5 mm.

Push-in type jumper bars provide additional options for custom circuit design.

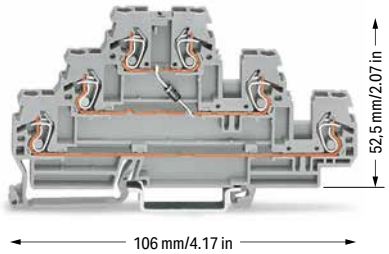


Circuit-related voltage indications can be created using the following terminal blocks:
870-543/281-434 or 870-543/281-413

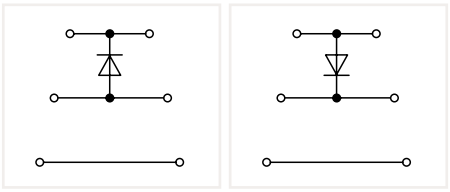
7

Triple-Deck Diode Terminal Block and LED Terminal Block
2.5 (4 “f-st”) mm²; 870 Series

Technical Data	
0.08 … 2.5 (4 “f-st”) mm² ❶	28 … 12 AWG
U_N 250 V; U_{RM} 1000 V	
1N4007 – 0.5 A continuous current	
Terminal block width: 5 mm / 0.197 inch	
6 … 7 mm / 0.24 … 0.28 inch	



280-590/281-410 280-590/281-411

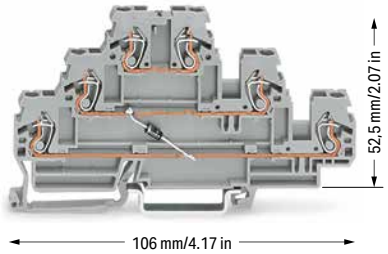


Double-deck diode terminal block; with 1N4007 diode

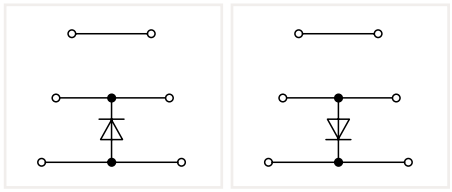
Color	Item No.	Pack. Unit
gray	870-590/281-410	50
gray	870-590/281-411	50

Other terminal blocks with the same profile:		
Through	870-551	Page 434

Technical Data	
0.08 … 2.5 (4 “f-st”) mm² ❶	28 … 12 AWG
U_N 250 V; U_{RM} 1000 V	
1N4007 – 0.5 A continuous current	
Terminal block width: 5 mm / 0.197 inch	
6 … 7 mm / 0.24 … 0.28 inch	



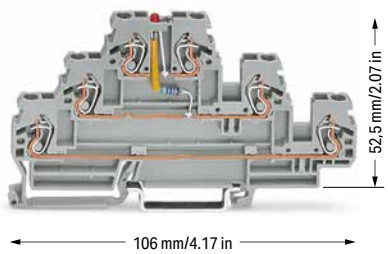
280-590/281-675 280-590/281-676



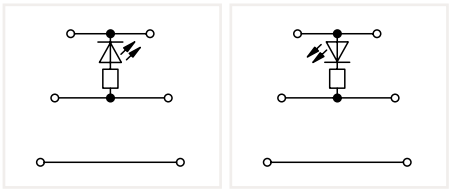
Double-deck diode terminal block; with two 1N4007 diodes

Color	Item No.	Pack. Unit
gray	870-590/281-675	50
gray	870-590/281-676	50

Technical Data	
0.08 … 2.5 (4 “f-st”) mm² ❶	28 … 12 AWG
24 VDC	
I_F 0.025 A max.	
Terminal block width: 5 mm / 0.197 inch	
6 … 7 mm / 0.24 … 0.28 inch	

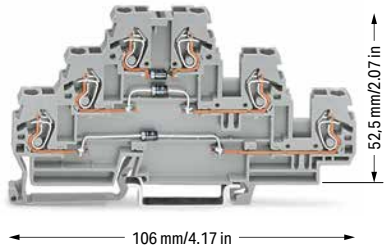


280-593/281-434 280-593/281-413

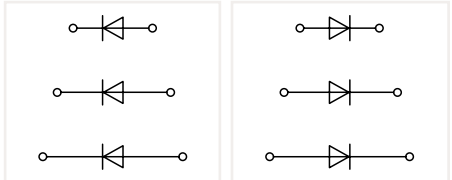


Double-deck LED terminal block; with red LED

Color	Item No.	Pack. Unit
gray	870-593/281-434	50
gray	870-593/281-413	50



280-596/281-673 280-596/281-674



Double-deck diode terminal block; with two 1N4007 diodes

Color	Item No.	Pack. Unit
gray	870-596/281-673	50
gray	870-596/281-674	50

❶ Max. insulation diameter: 4.4 mm

See application notes for:
Insulation stop, see page 346
Group marker carrier, page 435

Approvals and corresponding ratings, visit www.wago.com

Accessories; 870 Series

Appropriate marking systems:
Mini-WSB/Mini-WSB Inline/WMB/WMB Inline

End and intermediate plate; 2 mm thick

orange	**870-569**	100 (25)
gray	**870-568**	100 (25)

Insulation stop; 0.08 … 0.2 mm² "s" (0.14 mm² "f-st"); 5 pcs/strip

white	**280-470**	200 (25)

Insulation stop; 0.25 … 0.5 mm²; 5 pcs/strip

light gray	**280-471**	200 (25)

Insulation stop; 0.75 … 1 mm²; 5 pcs/strip

dark gray	**280-472**	200 (25)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks

yellow	**280-405**	100 (25)

Push-in type jumper bar; insulated; I_N 18 A; light gray

2-way	**870-402**	200 (25)
3-way	**870-403**	200 (25)
4-way	**870-404**	100 (25)
5-way	**870-405**	100 (25)
6-way	**870-406**	100 (25)
7-way	**870-407**	100 (25)
8-way	**870-408**	100 (25)
9-way	**870-409**	100 (25)
10-way	**870-410**	50 (25)

Push-in type jumper bar; insulated; I_N 18 A; light gray

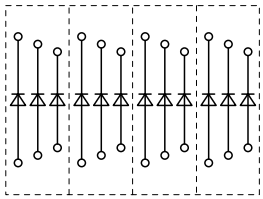
1 to 3	**870-433**	200 (25)
1 to 4	**870-434**	200 (25)
1 to 5	**870-435**	100 (25)
1 to 6	**870-436**	100 (25)
1 to 7	**870-437**	100 (25)
1 to 8	**870-438**	100 (25)
1 to 9	**870-439**	100 (25)
1 to 10	**870-440**	50 (25)

Marking strip; plain; 7.5 mm wide; 1 m long

transluscent	**709-196**	1

Mini-WSB marking card; white; 10 strips with 10 markers/card; 5 mm wide markers

plain	**248-501**	5



Triple-deck diode terminal blocks were specifically developed for custom diode circuits, such as lamp test and collective fault signal circuits.
Using LED terminal blocks, monitoring units can be designed, e.g., for control and operating circuits.

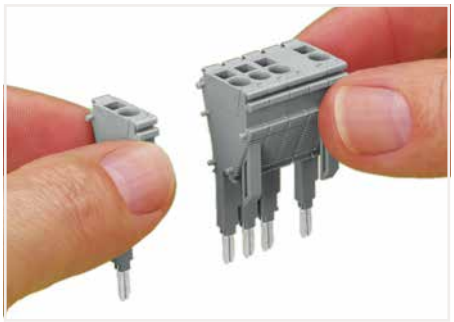
These terminal blocks provide high-density wiring in a width of just 5 mm.

Push-in type jumper bars provide additional options for custom circuit design.

7

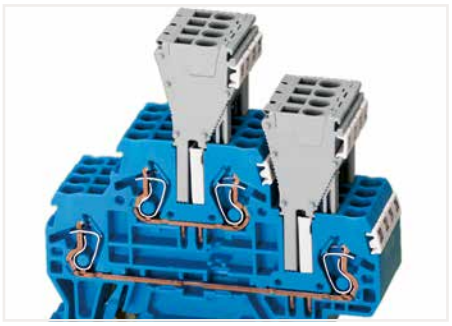
CAGE CLAMP®

Pluggable Tap-Off Modules
870 Series
Description and Installation

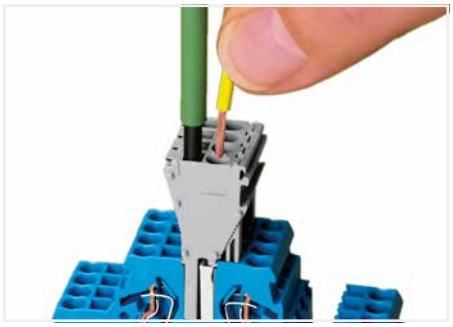


Snapping tap-off and spacer modules together to assemble a multipole tap-off module (max. 10 poles).

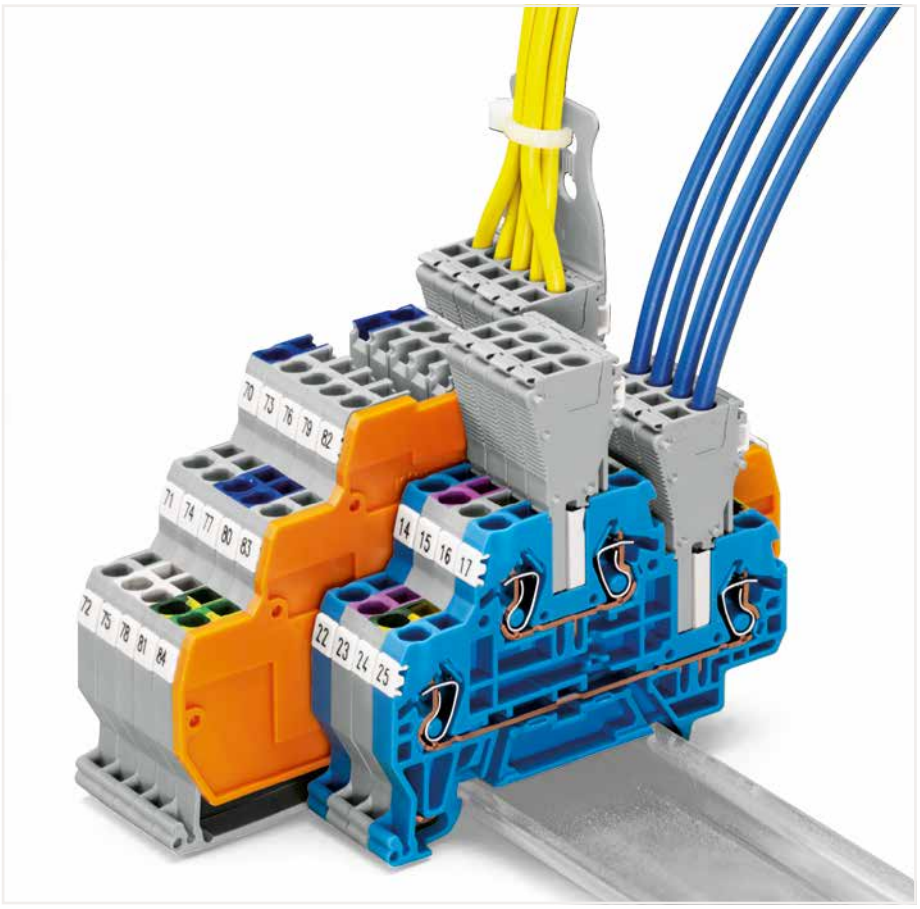
Module assembly with CAGE CLAMP® connections (0.25 … 2.5 mm²/24 … 14 AWG), including strain relief plate and marker slots for Mini-WSB or WMB markers.



The tap-off module assembly can be directly plugged into the jumper contact slot of the current bar. The terminal blocks can also be commoned via push-in type jumper bars parallel to the jumper slots being used by the modules.

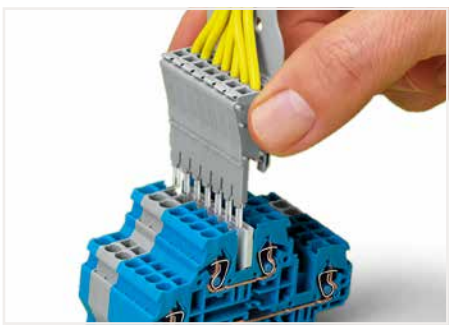


CAGE CLAMP® termination:
Tap-off modules are used when additional or removable connections are required (can be used as a permanent connection or a test plug).
Wiring is possible whether the modules are plugged into the assembly or not.



Using anti-reverse mating modules at both ends of a module assembly prevents reverse mating.

Three anti-reverse mating modules are necessary when snapping more than seven tap-off modules together.



Testing is also possible using a pre-wired tap-off module assembly in the very same way as test plugs.

CAGE CLAMP® terminates the following copper conductors:
solid

stranded

fine-stranded, also with tinned single strands

CAGE CLAMP®

Pluggable Tap-Off Module
870 Series

Technical Data	
0.25 … 2.5 mm²	22 … 14 AWG
500 V/6 kV/3 ❶	
I_N 18 A	
Module width: 5 mm / 0.197 inch	
10 mm / 0.38 inch	

Pluggable tap-off module; with anti-reverse mating protection; snaps together; for 870 Series Rail-Mount Terminal Blocks with jumper slots in the current bar

Color	Item No.	Pack. Unit
gray	870-425	100 (25)

Technical Data	
0.25 … 2.5 mm²	22 … 14 AWG
500 V/6 kV/3 ❶	
I_N 10 A	
Module width: 5 mm / 0.197 inch	
10 mm / 0.38 inch	

Pluggable tap-off module; snaps together; for 870 Series Rail-Mount Terminal Blocks with jumper slots in the current bar

Color	Item No.	Pack. Unit
gray	870-426	100 (25)

Spacer module; snaps together; bridges terminal blocks

gray	870-427	100 (25)

❶ 500 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

Approvals and corresponding ratings, visit www.wago.com

Accessories; for pluggable tap-off modules

Appropriate marking systems: Mini-WSB/Mini-WSB Inline/WMB/WMB Inline

Strain relief plate; gray

35 mm wide	734-326	100 (25)
6 mm wide	734-327	100 (25)
12.5 mm wide	734-328	100 (25)
25 mm wide	734-329	100 (25)

Mini-WSB marking card; white; 10 strips with 10 markers/card; 5 mm wide markers

plain	248-501	5

Mini-WSB marking card; plain; 10 strips with 10 markers/card; 5 mm wide markers

yellow	248-501/000-002	5
red	248-501/000-005	5
blue	248-501/000-006	5
gray	248-501/000-007	5
orange	248-501/000-012	5
light green	248-501/000-017	5
green	248-501/000-023	5
violet	248-501/000-024	5

WMB marking card; white; 10 strips with 10 markers/card; stretchable 5 … 5.2 mm

plain	793-5501	5

WMB marking card; plain; 10 strips with 10 markers/card; stretchable 5 … 5.2 mm

yellow	793-5501/000-002	5
red	793-5501/000-005	5
blue	793-5501/000-006	5
gray	793-5501/000-007	5
orange	793-5501/000-012	5
light green	793-5501/000-017	5
green	793-5501/000-023	5
violet	793-5501/000-024	5

WMB marking card; white; 10 strips with 10 markers/card; for 5 … 17.5 mm terminal block width

plain	793-501	5

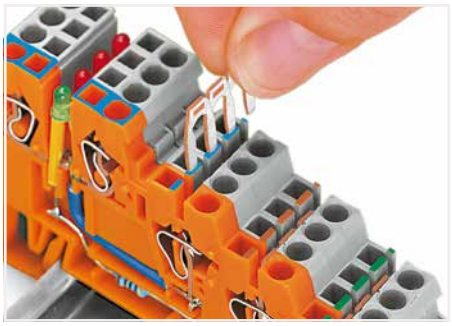
WMB marking card; plain; 10 strips with 10 markers/card; for 5 … 17.5 mm terminal block width

yellow	793-501/000-002	5
red	793-501/000-005	5
blue	793-501/000-006	5
gray	793-501/000-007	5
orange	793-501/000-012	5
light green	793-501/000-017	5
green	793-501/000-023	5
violet	793-501/000-024	5

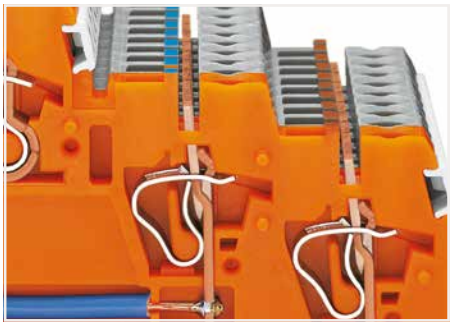
7

CAGE CLAMP®

Sensor Terminal Blocks and Actuator Terminal Blocks
270 Series
Description and Installation



Inserting a jumper.

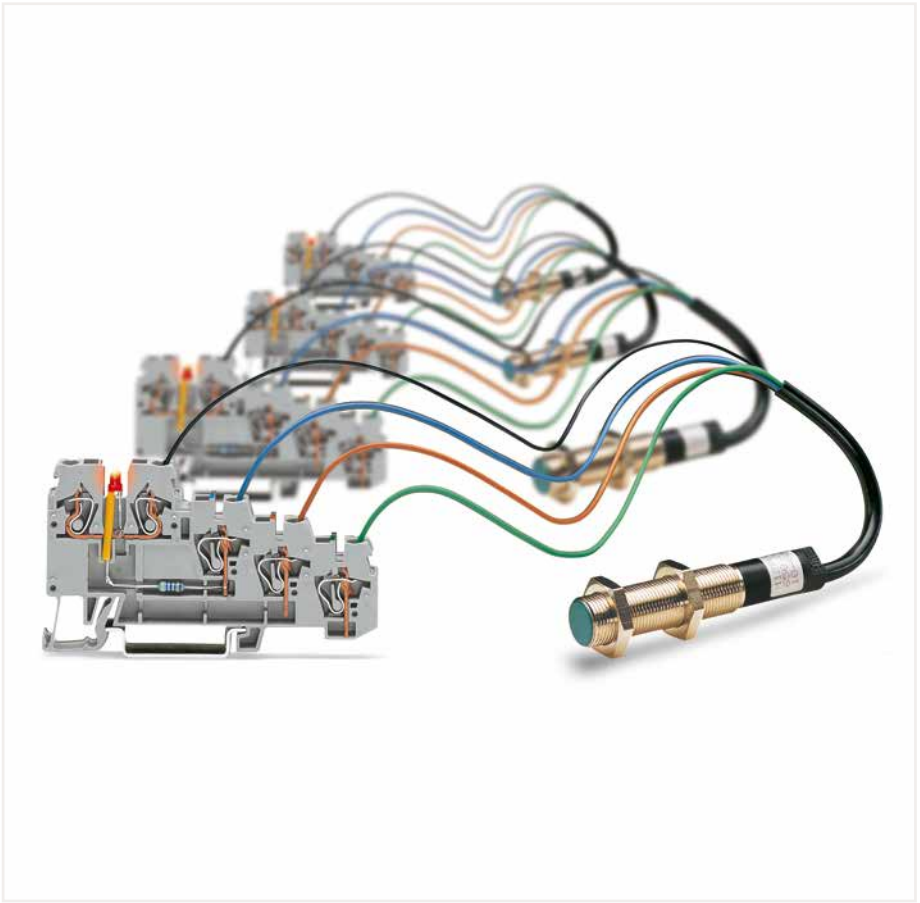


Commoning a supply voltage using uninsulated push-in type jumper bars, 2- to 9-way or 17-way (2 x 8 bits), depending on application.

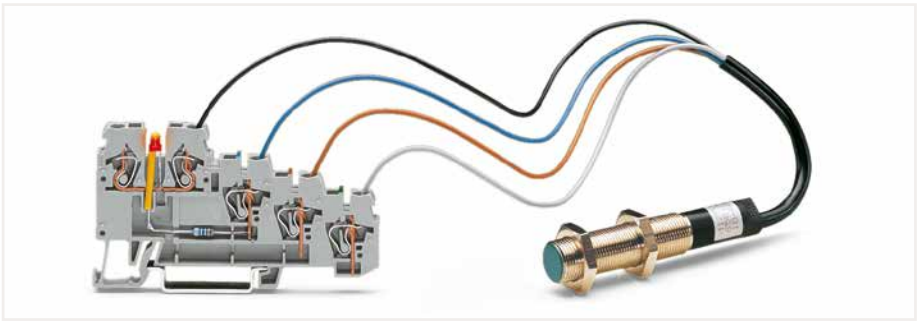
Commoning signal level voltage via insulated push-in type jumper bars (870 Series) –
2- to 9-way, depending on application.
Sensor LED terminal blocks cannot be commoned!

Terminal block assembly:
Sensor terminal blocks

Terminal block assembly:
Sensor LED terminal blocks



Marking strip (Item No. 709-196)
Not suitable for LED terminal blocks!



Sensor LED terminal block

CAGE CLAMP® terminates the following copper conductors:

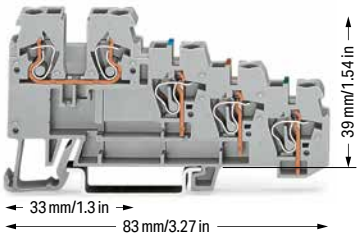
solid	stranded	fine-stranded, also with tinned single strands	fine-stranded, tip-bonded	fine-stranded, with ferrule (gastight crimped)	fine-stranded, with pin terminal (gastight crimped)

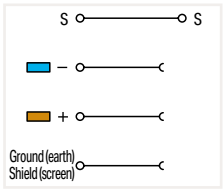
For aluminum conductors, see notes in Section 14. With ferruled conductors, it is necessary to use a terminal block one size smaller than the conductor's nominal cross section.

CAGE CLAMP®

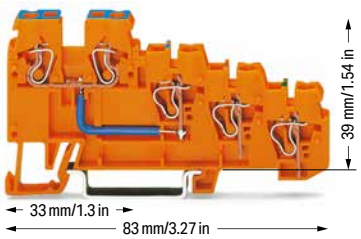
4-Conductor Sensor Terminal Block and 4-Conductor Sensor LED Terminal Block
2.5 mm²; 270 Series

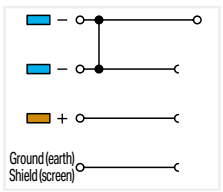
Technical Data	
0.08 … 2.5 mm²	28 … 12 AWG*
250 V/4 kV/3 ❶	300 V, 20 A
I_N 18 A ❷	300 V, 10 A
Terminal block width: 5 mm / 0.197 inch	
6 … 7 mm / 0.24 … 0.28 inch	





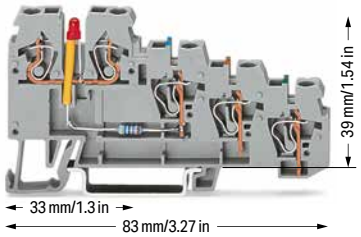
4-conductor sensor terminal block		
Color	Item No.	Pack. Unit
gray	270-570	50



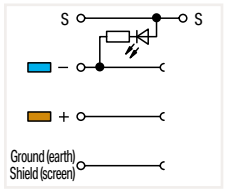


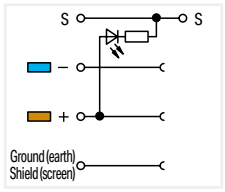
4-conductor sensor supply terminal block; Internal bridge: 9 A		
Color	Item No.	Pack. Unit
orange	270-574	10

Technical Data	
0.08 … 2.5 mm²	28 … 12 AWG*
24 VDC ❸	
Terminal block width: 5 mm / 0.197 inch	
6 … 7 mm / 0.24 … 0.28 inch	



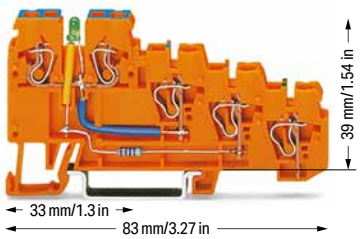
270-570/281-434 270-570/281-434

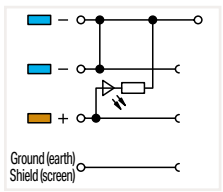




4-conductor sensor LED terminal block; for PNP (high-side) switching sensors; Red LED		
Color	Item No.	Pack. Unit
gray	270-570/281-434	50

4-conductor sensor LED terminal block; for NPN (low-side) switching sensors; Yellow LED		
gray	270-570/281-507	50





4-conductor sensor LED supply terminal block; Green LED		
Color	Item No.	Pack. Unit
orange	870-574/281-483	10

*12 AWG: THHN, THWN

❶ 250 V = rated voltage
4 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

❷ Internal bridge: 9 A

❸ Other voltages are available upon request.
LED power consumption: 4.8 mA

See application notes for:
Insulation stop, see page 346
Marking, from page 589

Approvals and corresponding ratings, visit www.wago.com

Accessories; 870 Series

Appropriate marking systems:
Mini-WSB/Mini-WSB Inline/WMB/WMB Inline

End and intermediate plate; 1 mm thick; for quadruple-deck terminal blocks

orange	270-322	100 (25)
gray	270-320	100 (25)

Insulation stop; 0.08 … 0.2 mm² "s" (0.14 mm² "f-st"); 5 pcs/strip

white	280-470	200 (25)

Insulation stop; 0.25 … 0.5 mm²; 5 pcs/strip

light gray	280-471	200 (25)

Insulation stop; 0.75 … 1 mm²; 5 pcs/strip

dark gray	280-472	200 (25)

Push-in type jumper bar; uninsulated; I_N 18 A
Jumpers can be shortened using an electronic side cutter.

9-way	270-409	200 (25)
17-way	270-417	200 (25)
80-way	270-480	100 (25)

Push-in type jumper bar; insulated; I_N 18 A; light gray

2-way	870-402	200 (25)
3-way	870-403	200 (25)
4-way	870-404	100 (25)
5-way	870-405	100 (25)
6-way	870-406	100 (25)
7-way	870-407	100 (25)
8-way	870-408	100 (25)
9-way	870-409	50 (25)

Mini-WSB marking card; white; 10 strips with 10 markers/card; 5 mm wide markers

plain	248-501	5

WMB marking card; white; 10 strips with 10 markers/card; stretchable 5 … 5.2 mm

plain	793-5501	5

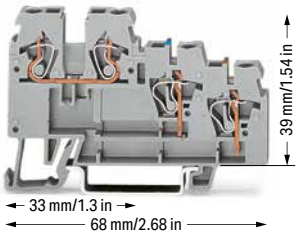
Operating tool with a partially insulated shaft; Type 2; (3.5 x 0.5) mm blade

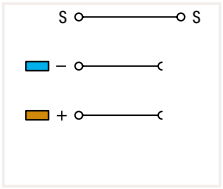
	210-720	1

7

3-Conductor Sensor Terminal Block and 3-Conductor Sensor LED Terminal Block
2.5 mm²; 270 Series

Technical Data	
0.08 … 2.5 mm²	28 … 12 AWG*
250 V/4 kV/3 ❶	300 V, 20 A
I_N 18 A ❷	300 V, 10 A
Terminal block width: 5 mm / 0.197 inch	
6 … 7 mm / 0.24 … 0.28 inch	

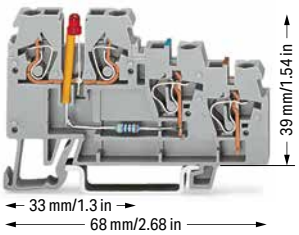


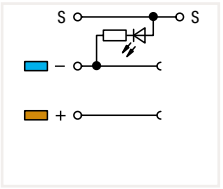


3-conductor sensor terminal block

Color	Item No.	Pack. Unit
gray	270-560	50

Technical Data	
0.08 … 2.5 mm²	28 … 12 AWG*
24 VDC ❸	
Terminal block width: 5 mm / 0.197 inch	
6 … 7 mm / 0.24 … 0.28 inch	

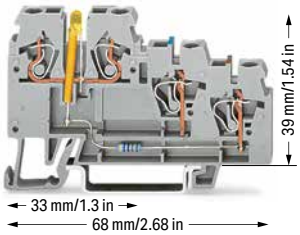


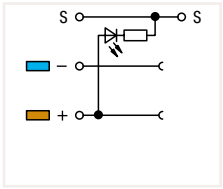


3-conductor sensor LED terminal block; for PNP (high-side) switching sensors; Red LED

Color	Item No.	Pack. Unit
gray	270-560/281-434	50

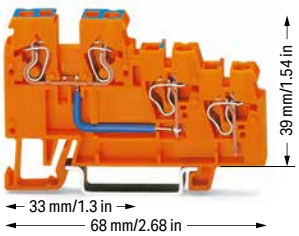
Technical Data	
0.08 … 2.5 mm²	28 … 12 AWG*
24 VDC ❸	
Terminal block width: 5 mm / 0.197 inch	
6 … 7 mm / 0.24 … 0.28 inch	

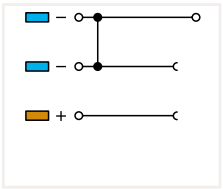




3-conductor sensor LED terminal block; for NPN (low-side) switching sensors; Yellow LED

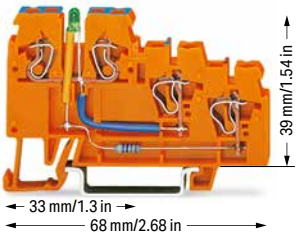
Color	Item No.	Pack. Unit
gray	270-560/281-507	50

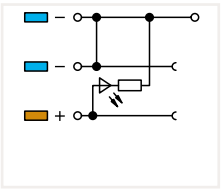




3-conductor sensor supply terminal block; Internal bridge: 9 A

Color	Item No.	Pack. Unit
gray	270-564	10





3-conductor sensor LED supply terminal block; Green LED

Color	Item No.	Pack. Unit
gray	270-564/281-483	10

Pluggable tap-off modules (Item No. 870-425, 870-426, 870-427) can be used on the signal level.

CAGE CLAMP®

3-Conductor Actuator Terminal Block and 3-Conductor Actuator LED Terminal Block
2.5 mm²; 270 Series

Technical Data	
0.08 … 2.5 mm²	28 … 12 AWG*
250 V/4 kV/3 ❶	300 V, 20 A
I_N 18 A ❷	300 V, 10 A
Terminal block width: 5 mm / 0.197 inch	
6 … 7 mm / 0.24 … 0.28 inch	

Technical Data	
0.08 … 2.5 mm²	28 … 12 AWG*
24 VDC ❸	
Terminal block width: 5 mm / 0.197 inch	
6 … 7 mm / 0.24 … 0.28 inch	

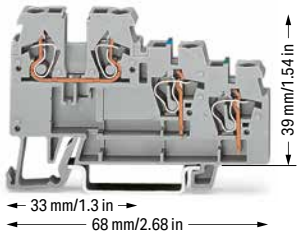
*12 AWG: THHN, THWN

❶ 250 V = rated voltage
4 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

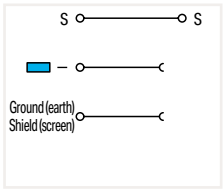
❷ Other voltages are available upon request.
LED power consumption: 4.8 mA

See application notes for:
Insulation stop, page 331
Marking, from page 589

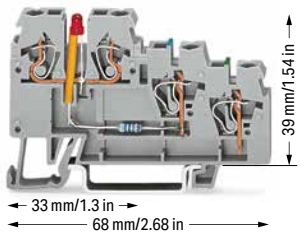
Approvals and corresponding ratings, visit www.wago.com



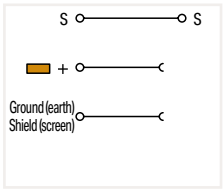
270-572



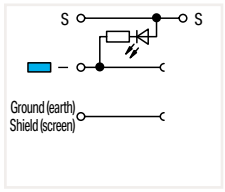
3-conductor actuator terminal block		
Color	Item No.	Pack. Unit
gray	270-572	50



270-585

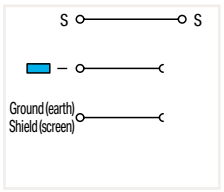


3-conductor actuator terminal block		
gray	270-585	50

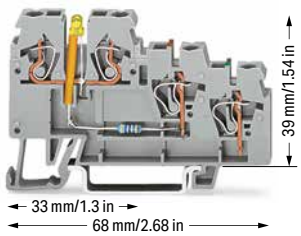


3-conductor actuator LED terminal block; for PNP (high-side) switching actuators; Red LED		
Color	Item No.	Pack. Unit
gray	270-572/281-434	50

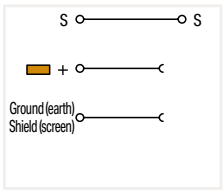
270-577



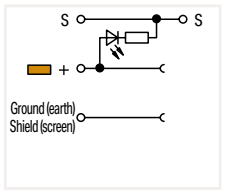
3-conductor actuator supply terminal block		
Color	Item No.	Pack. Unit
orange	270-577	10



270-586



3-conductor actuator supply terminal block		
orange	270-586	10



3-conductor actuator LED terminal block; for NPN (low-side) switching actuators; Yellow LED		
Color	Item No.	Pack. Unit
gray	270-585/281-507	50

Accessories; 870 Series

Appropriate marking systems:
Mini-WSB/Mini-WSB Inline/WMB/WMB Inline

End and intermediate plate; 1 mm thick; for triple-deck terminal blocks

orange	270-321	100 (25)
gray	270-319	100 (25)

Insulation stop; 0.08 … 0.2 mm² "s" (0.14 mm² "f-st"); 5 pcs/strip

white	280-470	200 (25)

Insulation stop; 0.25 … 0.5 mm²; 5 pcs/strip

light gray	280-471	200 (25)

Insulation stop; 0.75 … 1 mm²; 5 pcs/strip

dark gray	280-472	200 (25)

Push-in type jumper bar; uninsulated; I_N 18 A
Jumpers can be shortened using an electronic side cutter.

9-way	270-409	200 (25)
17-way	270-417	200 (25)
80-way	270-480	100 (25)

Push-in type jumper bar; insulated; I_N 18 A; light gray

2-way	870-402	200 (25)
3-way	870-403	200 (25)
4-way	870-404	100 (25)
5-way	870-405	100 (25)
6-way	870-406	100 (25)
7-way	870-407	100 (25)
8-way	870-408	100 (25)
9-way	870-409	50 (25)

Mini-WSB marking card; white; 10 strips with 10 markers/card; 5 mm wide markers

plain	248-501	5

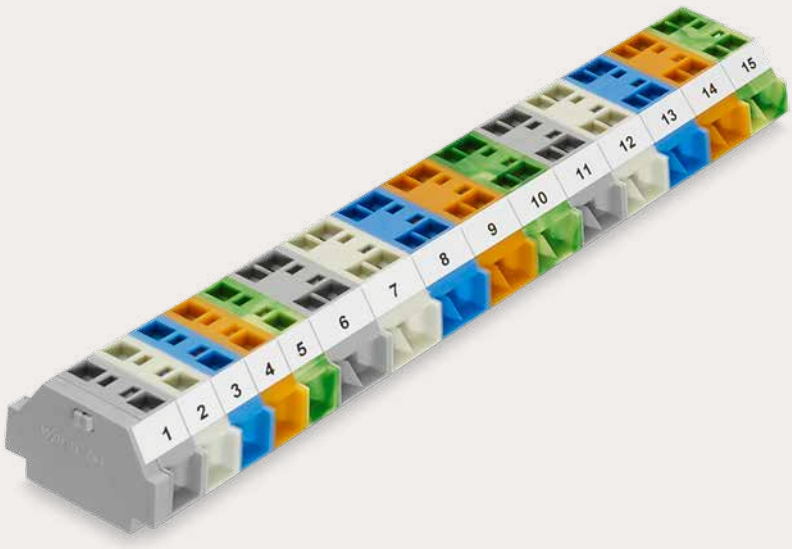
WMB marking card; white; 10 strips with 10 markers/card; stretchable 5 … 5.2 mm

plain	793-5501	5

Operating tool with a partially insulated shaft; Type 2; (3.5 x 0.5) mm blade

	210-720	1

7



WAGO Modular Terminal Blocks and WAGO Terminal Strips

CAGE CLAMP®

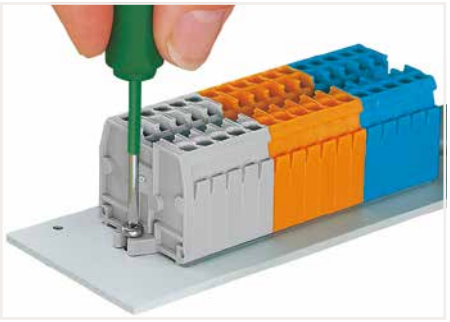
WAGO Modular Terminal Blocks and WAGO Terminal Strips
Side-/Front-Entry Wiring

			Page
	Modular Terminal Blocks and Terminal Strips; with Mounting Flanges or Snap-In Mounting Feet – Front-Entry Wiring 2.5 (4 “f-st”) mm² (12 AWG)	869 Series	449
	Modular Terminal Blocks and Terminal Strips; with Mounting Flanges or Snap-In Mounting Feet – Front-Entry Wiring 2.5 mm² (14 AWG)	264 Series	454
	Modular Terminal Blocks and Terminal Strips; with Mounting Flanges or Snap-In Mounting Feet – Side-Entry Wiring 0.08 … 1.5 mm² (28 … 16 AWG) / 2.5 mm² (14 AWG) / 4 mm² (12 AWG)	260/261/262 Series	460
	Modular Terminal Blocks and Terminal Strips; with Push-Buttons on One or Both Sides 0.08 … 1.5 mm² (28 … 16 AWG)	261 Series	464
	Modular Terminal Blocks and Terminal Strips with Mini-WSB Marker Slot and Push-Buttons on One or Both Sides 1.5 mm² (16 AWG)	261 Series	468
	Accessories for Modular Terminal Blocks and Terminal Strips	260/261/262 Series	474

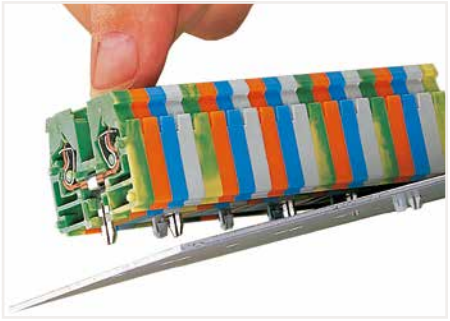
8

CAGE CLAMP®

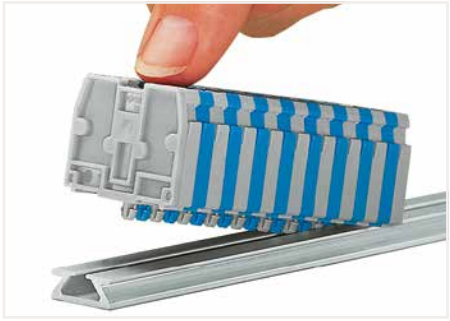
Modular Terminal Blocks and Terminal Strips
869 Series
Description and Installation



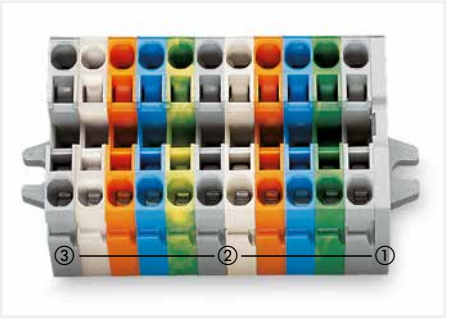
Mounting and securing a terminal strip directly to the plate via screw-type flanges.



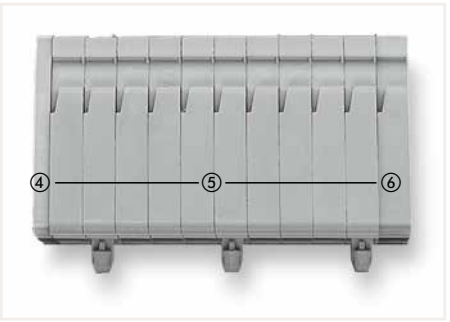
Mounting a terminal strip with snap-in feet into holes.



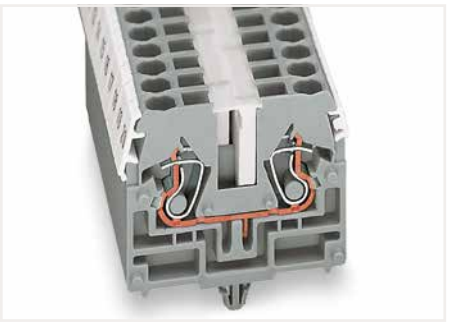
Mounting a terminal strip with snap-in feet onto the aluminum rail.



Terminal strip with mounting flanges:
- End plate with mounting flange ①
- Center terminal blocks ②
- End terminal block with mounting flange ③

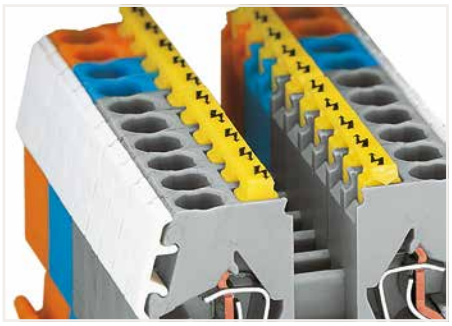


Terminal strip with snap-in mounting feet:
- End plate ④
- Center terminal blocks with/without snap-in mounting feet ⑤
- End terminal block with/without snap-in mounting foot ⑥



WMB markers in Mini-WSB marker slots
Translucent marking strip
Mini-WSB markers

Push jumper bars down firmly until fully inserted. When using multipole bars, push alternately on the right and then left side until installed.
Push-in type jumper bars 1 – 3 – 5 – 7 or 1 – 4 – 7 are available upon request.



Protective warning marker (280-405); with a black high-voltage symbol

CAGE CLAMP® terminates the following copper conductors:
solid, stranded, fine-stranded, also with tinned single strands, fine-stranded, tip-bonded, fine-stranded, with ferrule (gastight crimped), fine-stranded, with pin terminal (gastight crimped)

For aluminum conductors, see notes in Section 14. With ferruled conductors, it is necessary to use a terminal block one size smaller than the conductor's nominal cross section.

CAGE CLAMP®

Compact Terminal Strips; with Mounting Flanges or Snap-in Mounting Feet
2.5 (4 “f-st”) mm²; 870 Series

Technical Data	
0.08 … 2.5 (4 “f-st”) mm²	28 … 12 AWG
500 V/6 kV/3	300 V, 20 A
I_N 24 A	
Pole width: 5 mm / 0.197 inch	
6 … 7 mm / 0.24 … 0.28 inch	

Technical Data	
0.08 … 2.5 (4 “f-st”) mm² ❶	28 … 12 AWG
500 V/6 kV/3 ❷	300 V, 20 A
I_N 24 A	
Pole width: 5 mm / 0.197 inch	
6 … 7 mm / 0.24 … 0.28 inch	

Technical Data	
0.08 … 2.5 (4 “f-st”) mm² ❶	28 … 12 AWG
500 V/6 kV/3 ❷	300 V, 20 A
I_N 24 A	
Pole width: 5 mm / 0.197 inch	
6 … 7 mm / 0.24 … 0.28 inch	

Compact terminal strip; with M3 mounting flanges; for screw or similar mounting types; 3.2 mm mounting hole diameter; gray

Pole No.	Item No.	Pack. Unit
2	869-102	100
3	869-103	100
4	869-104	100
5	869-105	100
6	869-106	50
7	869-107	50
8	869-108	50
9	869-109	50
10	869-110	50
11	869-111	25
12 ❶	869-112	25

Compact terminal strip; with M4 mounting flanges; for screw or similar mounting types; 4.2 mm mounting hole diameter; gray

Pole No.	Item No.	Pack. Unit
2	869-202	100
3	869-203	100
4	869-204	100
5	869-205	100
6	869-206	50
7	869-207	50
8	869-208	50
9	869-209	50
10	869-210	25
11	869-211	25
12 ❶	869-212	25

Compact terminal strip; with snap-in mounting feet; for 0.6 … 1.2 mm plate thickness; 3.5 + 0.1 mm mounting hole diameter; gray

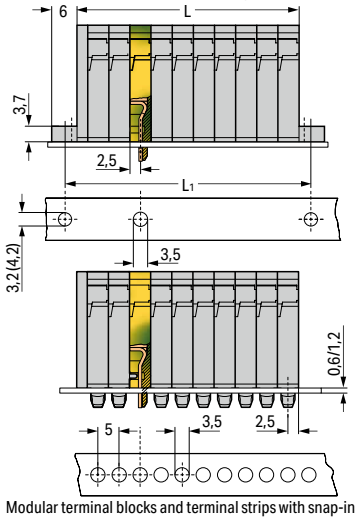
Pole No.	Item No.	Pack. Unit
2	869-152	100
3	869-153	100
4	869-154	100
5	869-155	100
6	869-156	50
7	869-157	50
8	869-158	50
9	869-159	50
10	869-160	25
11	869-161	25
12 ❶	869-162	25

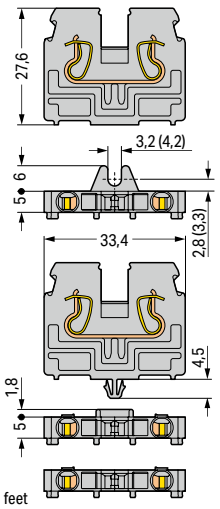
light gray		
2	869-132	100
3	869-133	100
4	869-134	100
5	869-135	100
6	869-136	50
7	869-137	50
8	869-138	50
9	869-139	50
10	869-140	25
11	869-141	25
12 ❶	869-142	25

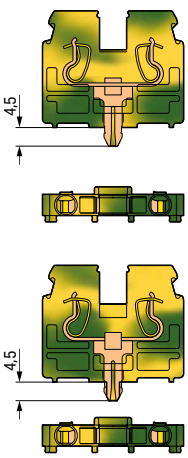
light gray		
2	869-232	100
3	869-233	100
4	869-234	100
5	869-235	100
6	869-236	50
7	869-237	50
8	869-238	50
9	869-239	50
10	869-240	25
11	869-241	25
12 ❶	869-242	25

light gray		
2	869-182	100
3	869-183	100
	869-184	100
	869-185	100
	869-186	50
	869-187	50
	869-188	50
	869-189	50
	869-190	25
	869-191	25
12 ❶	869-192	25

Modular terminal blocks and terminal strips with mounting flanges
L = (pole no. x pole width) + 2.5 mm L_1 = L + 5.6 mm, with flange M4 6.6 mm







Modular terminal blocks and terminal strips with snap-in mounting feet
L = (pole no. x pole width) + 2.5 mm

Dimensions in mm

❶ Longer strips and/or mixed-color assemblies are available upon request.

Item no. suffixes for gray terminal strips in:
blue …/000-006 ❷
green-yellow …/000-016
869-102 … 869-112
869-202 … 869-212
869-152 … 869-162

❷ Terminal strips with a blue insulated housing are suitable for Ex i applications.

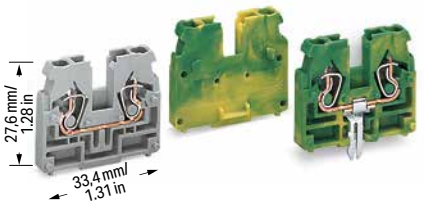
8

Modular Terminal Block; with Mounting Flange or Snap-In Mounting Foot
2.5 (4 “f-st”) mm²; 870 Series

Technical Data	
0.08 … 2.5 (4 “f-st”) mm² ❶	28 … 12 AWG
500 V/6 kV/3 ❷	300 V, 20 A
I_N 24 A	
Terminal block width: 5 mm / 0.197 inch	
6 … 7 mm / 0.24 … 0.28 inch	

Technical Data	
0.08 … 2.5 (4 “f-st”) mm² ❶	28 … 12 AWG
500 V/6 kV/3 ❷	300 V, 20 A
I_N 24 A	
Terminal block width: 5 mm / 0.197 inch	
6 … 7 mm / 0.24 … 0.28 inch	

Technical Data	
0.08 … 2.5 (4 “f-st”) mm² ❶	28 … 12 AWG
500 V/6 kV/3 ❷	300 V, 20 A
I_N 24 A	
Terminal block width: 5 mm / 0.197 inch	
6 … 7 mm / 0.24 … 0.28 inch	



Center terminal block; without snap-in mounting foot; for 0.6 … 1.2 mm plate thickness; required between end plate and end terminal block for terminal strips with mounting flanges

Color	Item No.	Pack. Unit
gray	869-321	100
blue	869-324 ❸	100
orange	869-326	100
green-yellow	869-327	100
light gray	869-329	100

End terminal block; with M3 mounting flange; for screw or similar mounting types; 3.2 mm mounting hole diameter

Color	Item No.	Pack. Unit
gray	869-301	100
blue	869-304 ❸	100
green-yellow	869-307	100
light gray	869-309	100

End terminal block; with snap-in mounting foot; for 0.6 … 1.2 mm plate thickness; 3.5 + 0.1 mm mounting hole diameter

Color	Item No.	Pack. Unit
gray	869-331	100
blue	869-334 ❸	100
green-yellow	869-337	100
light gray	869-339	100

Center terminal block; with direct ground contact; 3.5 + 0.1 mm drilled hole diameter; required between end plate and end terminal block for terminal strips with mounting flanges
Notice: Terminal block cannot be commoned!

green-yellow	869-328	100

End terminal block; with M4 mounting flange; for screw or similar mounting types; 4.2 mm mounting hole diameter

gray	869-351	100
blue	869-354 ❸	100
green-yellow	869-357	100
light gray	869-359	100

End terminal block; without snap-in mounting foot; for 0.6 … 1.2 mm plate thickness

gray	869-341	100
blue	869-344 ❸	100
green-yellow	869-347	100
light gray	869-349	100

Accessories; item-specific

Aluminum mounting rail; 1000 mm long; 18 mm wide; 7 mm high

	210-154	1

Plastic end stop; with WSB marker slot; for aluminum rail (210-154); 6 mm wide

	209-122	25

Accessories; 869 Series

Appropriate marking systems: Mini-WSB/Mini-WSB Inline/WMB/WMB Inline

End plate; with M3 mounting flange; 2.5 mm thick

gray	869-385	100 (25)
blue	869-388	100 (25)
green-yellow	869-389	100 (25)
light gray	869-387	100 (25)

End plate; with M4 mounting flange; 2.5 mm thick

gray	869-395	100 (25)
blue	869-398	100 (25)
green-yellow	869-399	100 (25)
light gray	869-397	100 (25)

End plate; for terminal blocks with snap-in mounting foot; 2.5 mm thick

gray	869-375	100 (25)
blue	869-378	100 (25)
green-yellow	869-379	100 (25)
light gray	869-377	100 (25)

Insulation stop; 0.08 … 0.2 mm² “s” (0.14 mm² “f-st”); 5 pcs/strip

white	280-470	200 (25)

Insulation stop; 0.25 … 0.5 mm²; 5 pcs/strip

light gray	280-471	200 (25)

Insulation stop; 0.75 … 1 mm²; 5 pcs/strip

dark gray	280-472	200 (25)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks

yellow	280-405	100 (25)

Push-in type jumper bar; insulated; I_N 18 A; light gray

2-way	870-402	200 (25)
3-way	870-403	200 (25)
4-way	870-404	100 (25)
5-way	870-405	100 (25)
6-way	870-406	100 (25)
7-way	870-407	100 (25)
8-way	870-408	100 (25)
9-way	870-409	100 (25)
10-way	870-410	50 (25)

Test plug; with 500 mm cable; 2 mm Ø; max. 42 V

red	210-136	50

Technical Data	
0.08 … 2.5 (4 “f-st”) mm² ❶	28 … 12 AWG
500 V/6 kV/3 ❷	300 V, 20 A
I_N 24 A	
Terminal block width: 5 mm / 0.197 inch	
6 … 7 mm / 0.24 … 0.28 inch	

Center terminal block; with snap-in mounting foot; for 0.6 … 1.2 mm plate thickness; 3.5 + 0.1 mm mounting hole diameter

Color	Item No.	Pack. Unit
gray	869-311	100
blue	869-314 ❸	100
orange	869-316	100
green-yellow	869-317	100
light gray	869-319	100

❶ Max. insulation diameter: 4.4 mm

❷ 500 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

❸ Terminal blocks with a blue insulated housing are suitable for Ex i applications.

See application notes for:
Insulation stop, see page 346
Group marker carrier, page 435

Approvals and corresponding ratings, visit www.wago.com

Accessories; 869 Series

Appropriate marking systems:
Mini-WSB/Mini-WSB Inline/WMB/WMB Inline

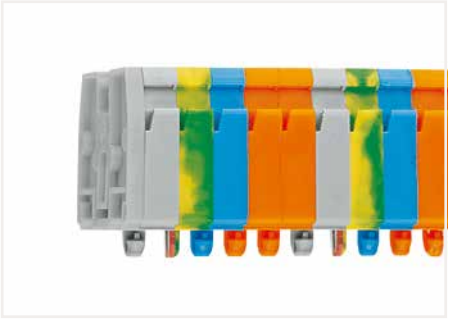
Mini-WSB marking card; white; 10 strips with 10 markers/card; 5 mm wide markers

	plain	248-501	5

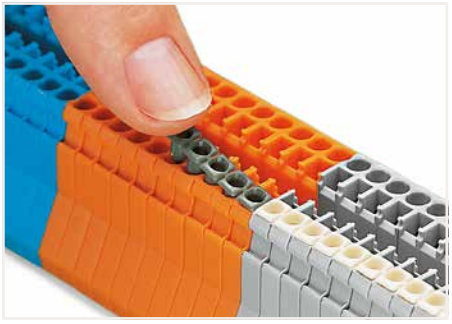
Group marker carrier; fits into the jumper slot of the current bars

	gray	870-184	50 (25)

Terminal strip; with M3 or M4 mounting flanges; for screw or similar mounting types
Mounting holes:
3.2 mm Ø; M3 flange
4.2 mm Ø; M4 flange



Inserting insulation stops into conductor entry holes of terminal strip.



Inserting insulation stops into conductor entry holes of terminal strip.

The wiring of programmable logic controllers and microprocessor-operated control circuits often relies on very small, fine-stranded conductors. These conductors are highly flexible and deform when pushed against the conductor stop in terminal blocks. As a result, the conductor insulation – not the copper conductor – may be clamped, causing intermittent contact or no contact at all. Common to all terminal block types currently offered, this problem creates unnecessary downtime for troubleshooting.

The solution: an insulation stop for compact terminal blocks. Insulation stops automatically bundle the cores of fine-stranded conductors when inserted into the clamping unit, preventing splaying. This also limits the conductor entry to a defined cross sectional area – ensuring the actual conductor, not the insulation, will enter the clamping unit

The insulation stop is available as dividable 5-pole strip for the 869 Series Terminal Strips.

Insulation stop usage will not affect the conductor strip lengths for the aforementioned terminal strips.

Accessories; item-specific

Aluminum mounting rail; 1000 mm long; 18 mm wide; 7 mm high

		210-154	1

Plastic end stop; with WSB marker slot; for aluminum rail (210-154); 6 mm wide

		209-122	25

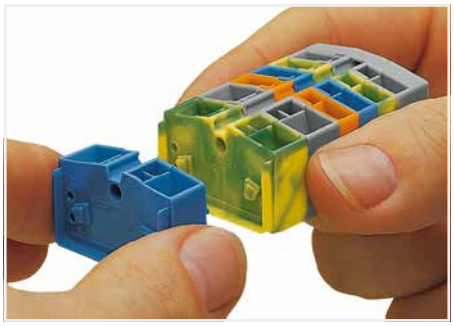
Push-in type jumper bar; insulated; I_N 18 A; light gray

	1 to 3	870-433	200 (25)
	1 to 4	870-434	200 (25)
	1 to 5	870-435	100 (25)
	1 to 6	870-436	100 (25)
	1 to 7	870-437	100 (25)
	1 to 8	870-438	100 (25)
	1 to 9	870-439	100 (25)
	1 to 10	870-440	50 (25)

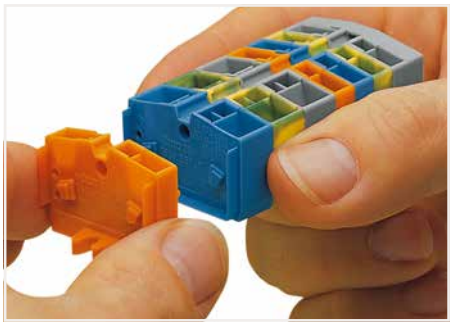
Marking strip; plain; 7.5 mm wide; 1 m long

	transluscent	709-196	1

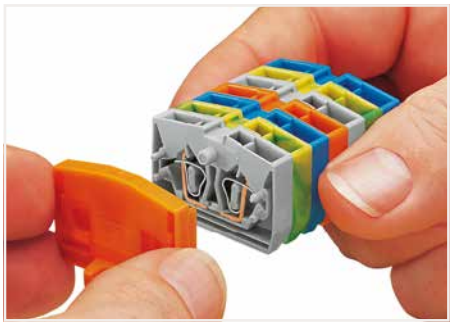
Modular Terminal Blocks and Terminal Strips
264 Series
Description and Installation



Assembling modular terminal blocks into terminal strips.

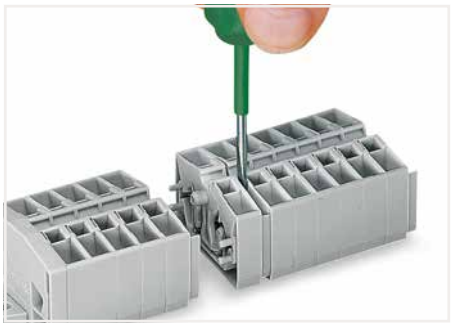


Mounting an “end terminal block” with mounting flange.

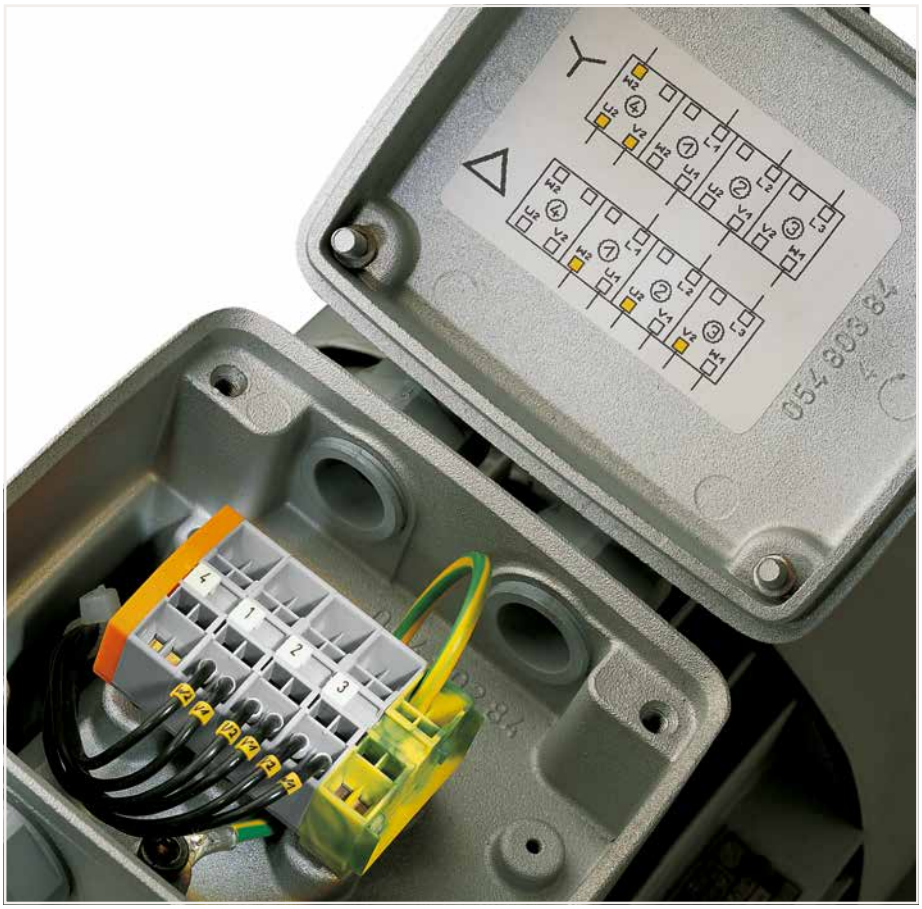


Mounting an end plate.

CAGE CLAMP® termination:
Inserting a conductor.
With ferruled conductors, it is necessary to use a terminal block one size smaller than the conductor’s nominal cross section.



Removing a terminal block.



Commoning with comb-style jumper bar.

Marking with T-marker tag (209-290).

Combining 2- and 4-conductor terminal blocks.
Marking via Mini-WSB Quick Marking System.

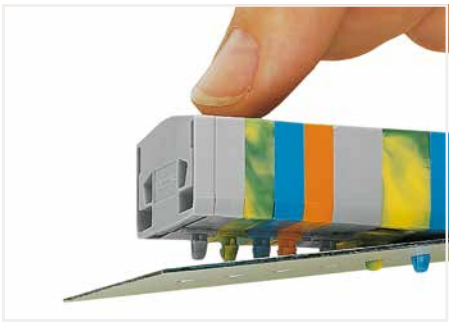
CAGE CLAMP® terminates the following copper conductors:
solid

stranded

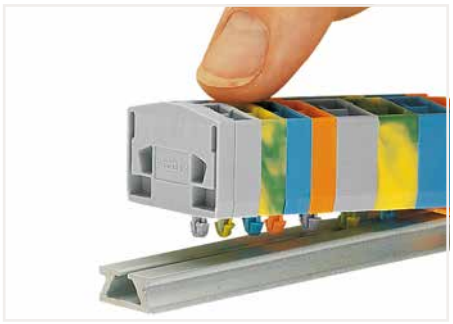
fine-stranded, also with tinned single strands

For aluminum conductors, see notes in Section 14.

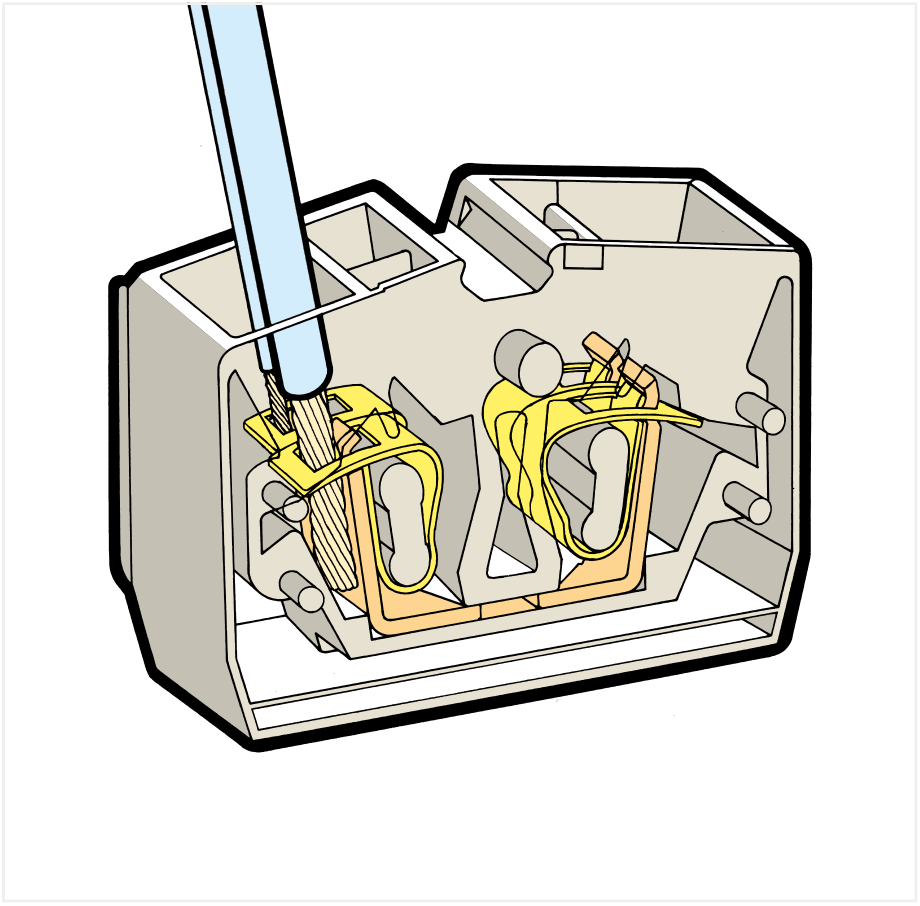
Mounting and securing a terminal strip directly to the plate via screw-type flanges.

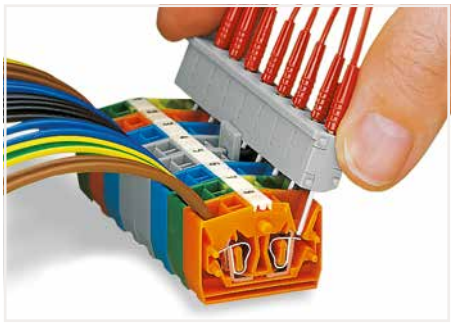


Mounting a terminal strip with snap-in feet into holes.

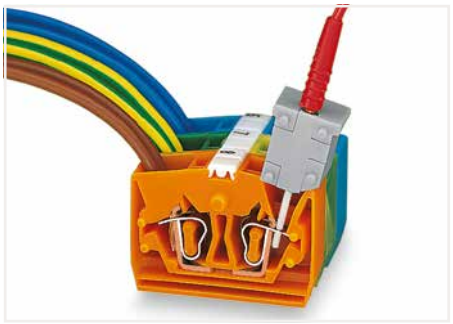


Mounting a terminal strip with snap-in feet onto the aluminum mounting rail.





Testing by touch contact to the CAGE CLAMP® spring (limited to 0.5 A and 48 V test voltage) – test pins are not protected against accidental contact.



Testing via CAGE CLAMP® on the current bar (max. nominal current: 6 A).
CAGE CLAMP® clamps individual test contacts.
The maximum test voltage is 400 V.

Ex e II terminal strip; with mounting flanges; for screw or similar mounting types; 3.2 mm mounting hole diameter

Ex e II terminal strip; with snap-in mounting feet; for 0.6 … 1.2 mm plate thickness; 3.5 mm mounting hole diameter

fine-stranded, tip-bonded

fine-stranded, with ferrule (gastight crimped)

fine-stranded, with pin terminal (gastight crimped)

CAGE CLAMP®

Modular Terminal Block; with Mounting Flange
2.5 mm²; 264 Series

Technical Data	
0.08 … 2.5 mm²	28 … 12 AWG*
800 V/8 kV/3 ❶	300 V, 20 A
I_N 24 A	600 V, 20 A
Terminal block width: 6 mm / 0.236 inch	
8 … 9 mm / 0.31 … 0.35 inch	

Technical Data	
0.08 … 2.5 mm²	28 … 12 AWG*
800 V/8 kV/3 ❶	300 V, 20 A
I_N 24 A	600 V, 20 A
Terminal block width: 10 mm / 0.394 inch	
8 … 9 mm / 0.31 … 0.35 inch	

*12 AWG: THHN, THWN

❶ 800 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

❷ Terminal blocks with a blue insulated housing are suitable for Ex i applications.

❸ Terminal blocks with an Ex mark are suitable for Ex e II applications.
0.5 … 2.5 mm² / 20 … 12 AWG*
690 V; 23 A
(see Section 14)

See application notes for:
Alternate comb-style jumper bar, page 347
Test plug module, page 474
Mini-WSB marking system, page 589

Approvals and corresponding ratings, visit www.wago.com

Terminal strip with mounting flanges, consisting of:
- End plate; with mounting flange
- Center terminal blocks
- End terminal block; with mounting flange

2-conductor center terminal block; required between end plate and end terminal block for terminal strips with mounting flanges

Color	Item No.	Pack. Unit
gray	264-321	100
blue	264-324 ❷	100
orange	264-326	100
green-yellow	264-327	100
light gray	264-131 ❸	100

4-conductor center terminal block; required between end plate and end terminal block for terminal strips with mounting flanges

Color	Item No.	Pack. Unit
gray	264-351	100
blue	264-354 ❷	100
orange	264-356	100
green-yellow	264-357	100
light gray	264-231 ❸	100

2-conductor end terminal block; with mounting flange; for screw or similar mounting types; 3.2 mm mounting hole diameter

gray	264-301	100
blue	264-304 ❷	100
orange	264-306	100
green-yellow	264-307	100
light gray	264-130 ❸	100

4-conductor end terminal block; with mounting flange; for screw or similar mounting types; 3.2 mm mounting hole diameter

gray	264-331	100
blue	264-334 ❷	100
orange	264-336	100
green-yellow	264-337	100
light gray	264-230 ❸	100

Accessories; item-specific

Alternate comb-style jumper bar; insulated; I_N = I_N of terminal block

2-way	281-492	100 (25)

Test plug module; snaps together; 6 mm wide

gray	249-136	100 (25)

Mini-WSB marking card; white; 10 strips with 10 markers/card; 5 mm wide markers

plain	248-501	5

Accessories; item-specific

Alternate comb-style jumper bar; insulated; I_N = I_N of terminal block

2-way	280-492	200 (25)

Test plug module; snaps together; 10 mm wide

gray	249-139	100 (25)

Mini-WSB marking card; white; 10 strips with 10 markers/card; 5 mm wide markers

	264-900	5

Accessories; 264 Series

Appropriate marking systems: Mini-WSB/Mini-WSB Inline/T-marker tag

End and intermediate plate; 4 mm thick

orange	264-361	25
gray	264-364	25
light gray	264-363	25

Comb-style jumper bar; insulated; reduces maximum conductor size to 1.5 mm²; I_N 16 A; gray

2-way	264-402	200 (25)

Operating tool; insulated

2-way	280-432	1

Test plug; with 500 mm cable; 2 mm Ø; max. 42 V

red	210-136	50

Test plug; with 500 mm cable; 2 mm Ø; max. 42 V

yellow	210-137	50

T-marker tag; 30 markers per tag; up to 6 characters per marker; stretchable 5 … 6 mm

plain	209-290	50

8

CAGE CLAMP®

Modular Terminal Block; with Snap-In Mounting Foot
2.5 mm²; 264 Series

Technical Data	
0.08 … 2.5 mm²	28 … 12 AWG*
800 V/8 kV/3 ❶	300 V, 20 A
I_N 24 A	600 V, 20 A
Terminal block width: 6 mm / 0.236 inch	
8 … 9 mm / 0.31 … 0.35 inch	

Technical Data	
0.08 … 2.5 mm²	28 … 12 AWG*
800 V/8 kV/3 ❶	300 V, 20 A
I_N 24 A	600 V, 20 A
Terminal block width: 10 mm / 0.394 inch	
8 … 9 mm / 0.31 … 0.35 inch	

*12 AWG: THHN, THWN

❶ 800 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

❷ Terminal blocks with a blue insulated housing are suitable for Ex i applications.

❸ Terminal blocks with an Ex mark are suitable for Ex e II applications.
0.5 … 2.5 mm² / 20 … 12 AWG*
690 V; 23 A
(see Section 14)

See application notes for:
Alternate comb-style jumper bar, page 347
Test plug module, page 474
Mini-WSB marking system, page 589

Approvals and corresponding ratings, visit www.wago.com

2-conductor center terminal block; required between end plate and end terminal block for terminal strips with mounting flanges

Color	Item No.	Pack. Unit
gray	264-311	100
blue	264-314 ❷	100
orange	264-316	100
green-yellow	264-317	100
light gray	264-180 ❸	100

4-conductor center terminal block; required between end plate and end terminal block for terminal strips with mounting flanges

Color	Item No.	Pack. Unit
gray	264-341	100
blue	264-344 ❷	100
orange	264-346	100
green-yellow	264-347	100
light gray	264-280 ❸	100

Terminal strip with mounting flanges, consisting of:
End plate
- 4-conductor terminal strip; with snap-in mounting foot1)
- Center terminal blocks
- 2-conductor terminal strip; with snap-in mounting foot1)

1) at every 4th or 5th terminal block of the strip

Accessories; item-specific

Alternate comb-style jumper bar; insulated; I_N = I_N of terminal block

2-way	281-492	100 (25)

Test plug module; snaps together; 6 mm wide

gray	249-136	100 (25)

Mini-WSB marking card; white; 10 strips with 10 markers/card; 5 mm wide markers

plain	248-501	5

Accessories; item-specific

Alternate comb-style jumper bar; insulated; I_N = I_N of terminal block

2-way	280-492	200 (25)

Test plug module; snaps together; 10 mm wide

gray	249-139	100 (25)

Mini-WSB marking card; white; 10 strips with 10 markers/card; 5 mm wide markers

	264-900	5

Accessories; 264 Series

Appropriate marking systems: Mini-WSB/Mini-WSB Inline/T-marker tag

End and intermediate plate; 4 mm thick

orange	264-371	25
gray	264-374	25
light gray	264-373	25

Comb-style jumper bar; insulated; reduces maximum conductor size to 1.5 mm²; I_N 16 A; gray

2-way	264-402	200 (25)

Operating tool; insulated

2-way	280-432	1

Test plug; with 500 mm cable; 2 mm Ø; max. 42 V

red	210-136	50

Test plug; with 500 mm cable; 2 mm Ø; max. 42 V

yellow	210-137	50

Aluminum mounting rail; 1000 mm long; 18 mm wide; 7 mm high

	210-154	1

Plastic end stop; with WSB marker slot; for aluminum mounting rail (210-154); 6 mm wide

	209-122	25

T-marker tag; 30 markers per tag; up to 6 characters per marker; stretchable 5 … 6 mm

plain	209-290	50

Operating tool with a partially insulated shaft; Type 2; (3.5 x 0.5) mm blade

	210-720	1

8

Terminal Strip; with Mounting Flanges or Snap-in Mounting Feet
2.5 mm²; 264 Series

Technical Data	
0.08 … 2.5 mm²	28 … 12 AWG*
800 V/8 kV/3 ❶	300 V, 20 A
I_N 24 A	600 V, 20 A
Pole width: 6 mm / 0.236 inch	
8 … 9 mm / 0.31 … 0.35 inch	

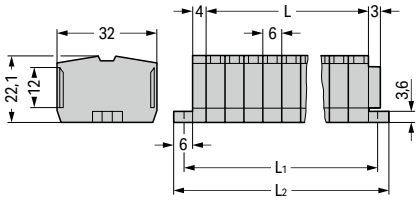
Technical Data	
0.08 … 2.5 mm²	28 … 12 AWG*
800 V/8 kV/3 ❶	300 V, 20 A
I_N 24 A	600 V, 20 A
Pole width: 10 mm / 0.394 inch	
8 … 9 mm / 0.31 … 0.35 inch	

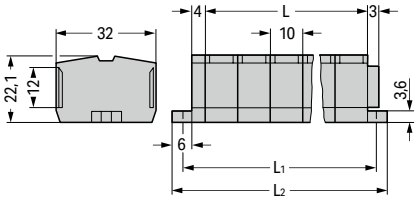
Technical Data	
0.08 … 2.5 mm²	28 … 12 AWG*
690 V ❷	300 V, 20 A
I_N 23 A	600 V, 20 A
Pole width: 6 mm / 0.236 inch	
8 … 9 mm / 0.31 … 0.35 inch	

Dimensions in mm

Modular terminal blocks and terminal strips with mounting flanges

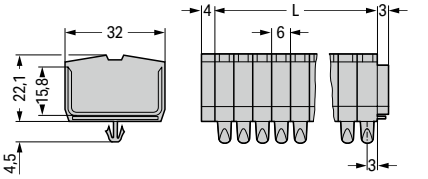
L = pole no. x pole width $L_1 = L + 9.6$ mm $L_2 = L + 16$ mm

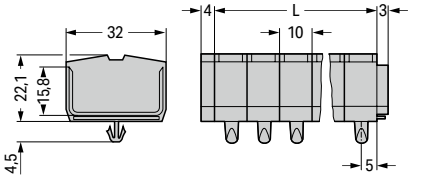




Modular terminal blocks and terminal strips with snap-in mounting feet

L = (pole no. x pole width) + 7 mm





8

2-conductor terminal strip; with mounting flanges; for screw or similar mounting types; 3.2 mm mounting hole diameter; gray		
Pole No.	Item No.	Pack. Unit
2	264-102	100
3	264-103	100
4	264-104	100
5	264-105	100
6	264-106	100
7	264-107	100
8	264-108	100
9	264-109	50
10	264-110	50
11	264-111	50
12 ❸	264-112	25

4-conductor terminal strip; with mounting flanges; for screw or similar mounting types; 3.2 mm mounting hole diameter; gray		
Pole No.	Item No.	Pack. Unit
2	264-202	100
3	264-203	100
4	264-204	100
5	264-205	100
6	264-206	100
7	264-207	100
8	264-208	100
9	264-209	50
10	264-210	50
11	264-211	25
12 ❸	264-212	25

2-conductor Ex e II terminal strip; with mounting flanges; for screw or similar mounting types; 3.2 mm mounting hole diameter; light gray		
Pole No.	Item No.	Pack. Unit
2	264-132	100
3	264-133	100
4	264-134	100
5	264-135	100
6	264-136	100
7	264-137	100
8	264-138	100
9	264-139	50
10	264-140	50
11	264-141	25
12 ❸	264-142	25

2-conductor terminal strip; with snap-in mounting feet; for 0.6 … 1.2 mm plate thickness; 3.5 mm mounting hole diameter; gray		
2	264-152	100
3	264-153	100
4	264-154	100
5	264-155	100
6	264-156	50
7	264-157	50
8	264-158	50
9	264-159	50
10	264-160	25
11	264-161	25
12 ❸	264-162	25

4-conductor terminal strip; with snap-in mounting feet; for 0.6 … 1.2 mm plate thickness; 3.5 mm mounting hole diameter; gray		
2	264-252	100
3	264-253	100
4	264-254	100
5	264-255	100
6	264-256	50
7	264-257	50
8	264-258	50
9	264-259	50
10	264-260	25
11	264-261	25
12 ❸	264-262	25

2-conductor Ex e II terminal strip; with snap-in mounting feet; for 0.6 … 1.2 mm plate thickness; 3.5 mm mounting hole diameter; light gray		
2	264-182	100
3	264-183	100
4	264-184	100
5	264-185	100
6	264-186	50
7	264-187	50
8	264-188	50
9	264-189	50
10	264-190	25
11	264-191	25
12 ❸	264-192	25

Technical Data	
0.08 … 2.5 mm²	28 … 12 AWG*
690 V ❷	300 V, 20 A
I_N 23 A	600 V, 20 A
Pole width: 10 mm / 0.394 inch	
8 … 9 mm / 0.31 … 0.35 inch	

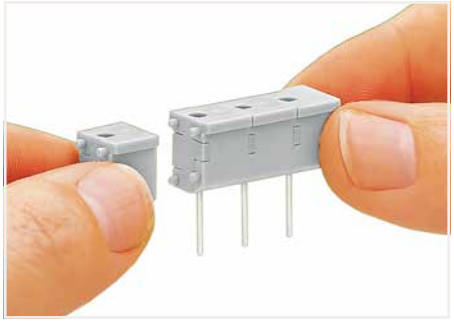
*12 AWG: THHN, THWN

❶ 800 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

❷ Suitable for Ex e II applications
(see Section 14)

❸ Longer strips and/or mixed-color assemblies are available upon request.

Approvals and corresponding ratings, visit www.wago.com



Snapping individual modules together to assemble a multi-pole test plug module.

Item no. suffixes for gray terminal strips with mounting flanges:
264-102 to 264-112
264-202 to 264-212

blue …/000-006,
Terminal strips with a blue insulated housing are suitable for Ex i applications.

Item no. suffixes for gray terminal strips with snap-in mounting feet:
264-152 to 264-162
264-252 to 264-262

blue …/000-006,
Terminal strips with a blue insulated housing are suitable for Ex i applications.

8

4-conductor Ex e II terminal strip; with mounting flanges; for screw or similar mounting types; 3.2 mm mounting hole diameter; light gray

Pole No.	Item No.	Pack. Unit
2	264-232	100
3	264-233	100
4	264-234	100
5	264-235	100
6	264-236	100
7	264-237	100
8	264-238	100
9	264-239	50
10	264-240	50
11	264-241	100
12 ❸	264-242	25

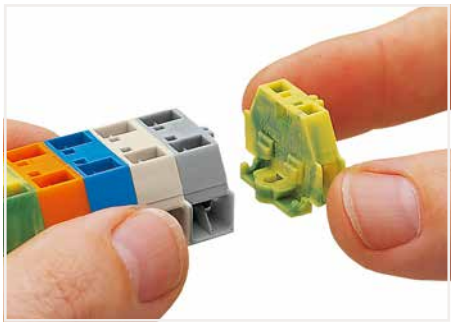
Ex e II terminal strip; with mounting flanges; for screw or similar mounting types; 3.2 mm mounting hole diameter

Ex e II terminal strip; with snap-in mounting feet; for 0.6 … 1.2 mm plate thickness; 3.5 mm mounting hole diameter

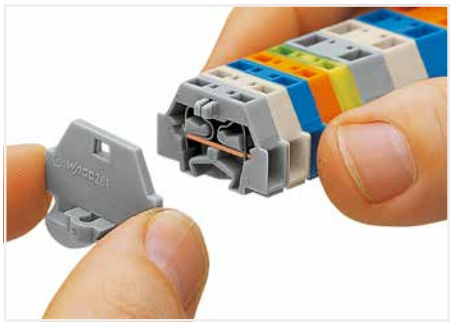
4-conductor Ex e II terminal strip; with snap-in mounting feet; for 0.6 … 1.2 mm plate thickness; 3.5 mm mounting hole diameter; light gray

2	264-282	100
3	264-283	100
4	264-284	100
5	264-285	100
6	264-286	100
7	264-287	50
8	264-288	50
9	264-289	50
10	264-290	25
11	264-291	25
12 ❸	264-292	25

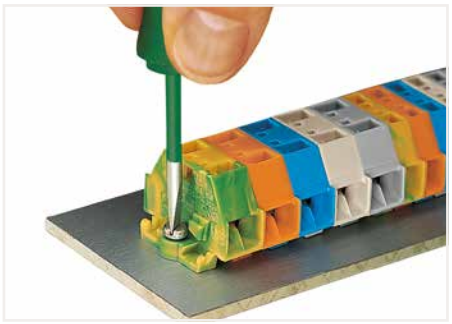
Modular Terminal Blocks and Terminal Strips
260 to 262 Series
Description and Installation



Assembling modular terminal blocks into terminal strips.

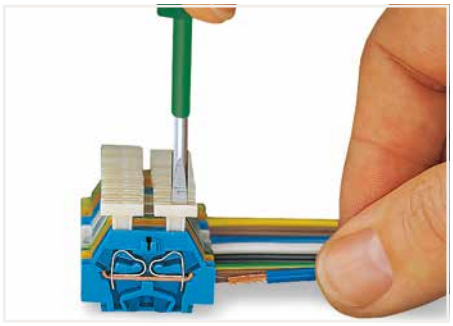


Mounting an end plate.

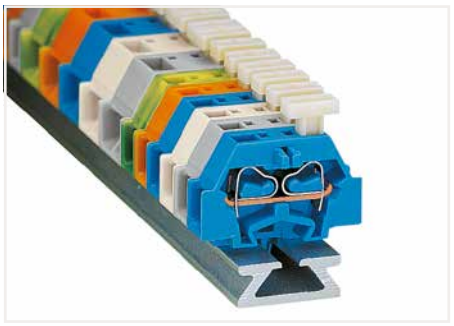


Mounting and securing a terminal strip directly to the plate via screw-type flanges.

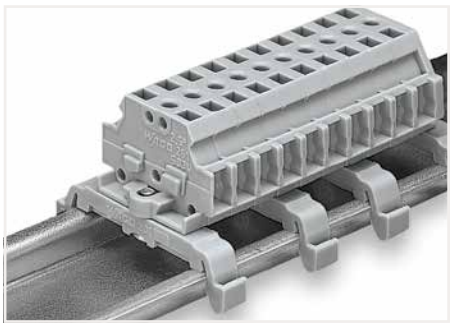
CAGE CLAMP® termination:
Inserting a conductor.
With ferruled conductors, it is necessary to use a terminal block one size smaller than the conductor's nominal cross section.



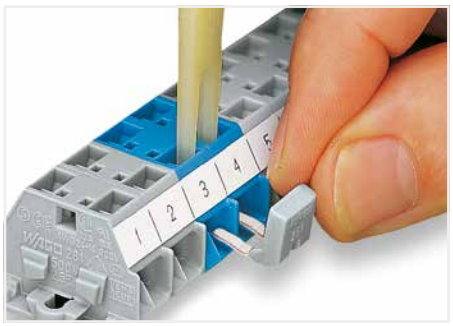
CAGE CLAMP® termination:
Inserting a conductor via push-button.



Terminal strip; with push-buttons on one side



Terminal strip; with marker slot for Mini-WSB Quick Marking System



Commoning with comb-style jumper bar.

CAGE CLAMP® terminates the following copper conductors:
solid

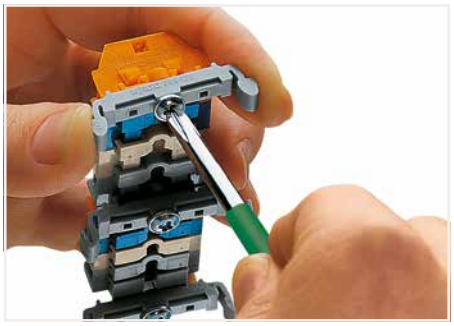
stranded

fine-stranded, also with tinned single strands

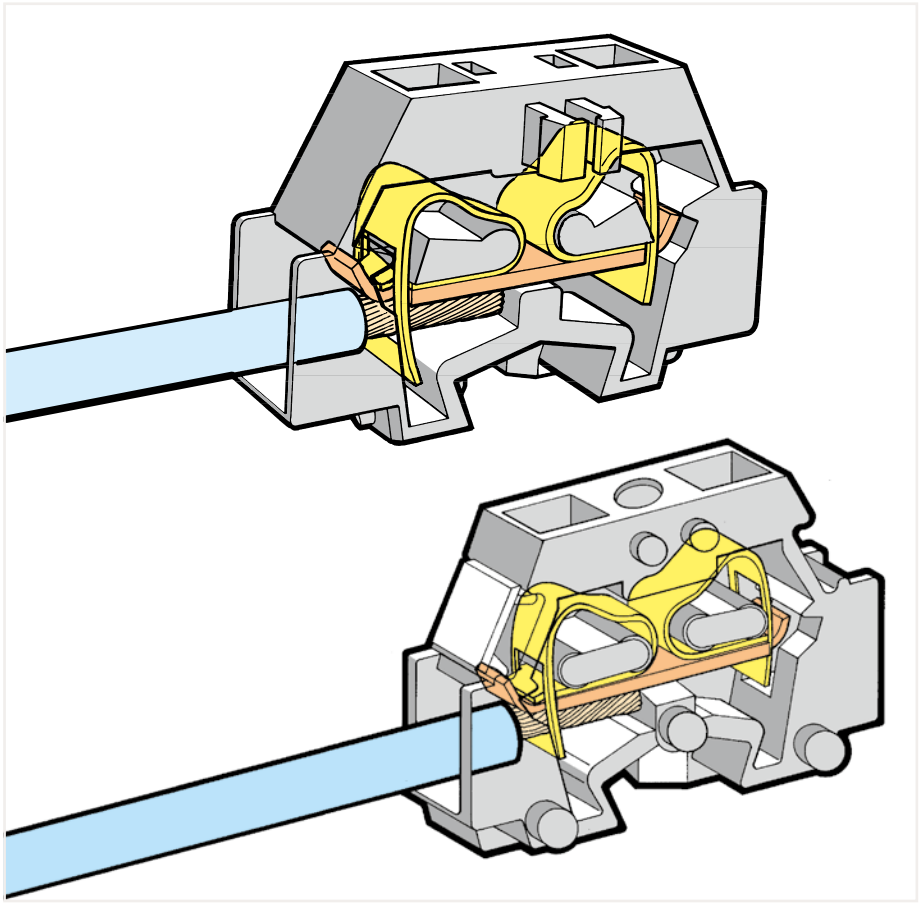
For aluminum conductors, see notes in Section 14.

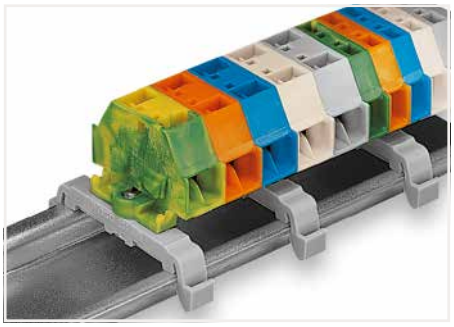
Mounting a terminal strip with snap-in feet into holes.

Mounting a terminal strip with snap-in feet onto the aluminum rail.

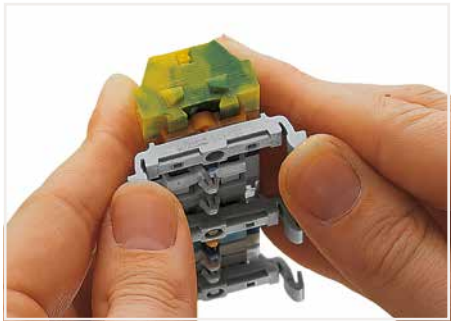


Mounting and securing a terminal strip directly to the plate via screw-type flanges.
screwing a mounting foot (209-123)
(distance between mounting feet: approx. 20 … 25 mm)





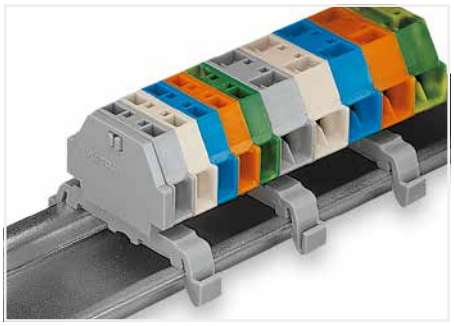
Terminal strip; with mounting flanges; for DIN-35 rail



Terminal strip; with snap-in mounting feet; snapping a mounting foot (209-123)
(distance between mounting feet: approx. 20 … 25 mm)

Marking with self-adhesive marking strips.

Marking by direct printing (upon request).



Terminal strip; with snap-in mounting feet; for DIN-35 rail

fine-stranded,
tip-bonded

fine-stranded,
with ferrule
(gastight crimped)

fine-stranded,
with pin terminal
(gastight crimped)

CAGE CLAMP®

Modular Terminal Block; with Mounting Flange or Snap-In Mounting Foot
1.5 mm²; 260 Series

Technical Data	
0.08 … 1.5 mm² (28 … 16 AWG)	28 … 16 AWG
400 V/6 kV/3 ❶	300 V, 10 A
I_N 18 A	300 V, 15 A
Terminal block width: 5 mm / 0.197 inch	
8 … 9 mm / 0.31 … 0.35 inch	

Technical Data	
0.08 … 1.5 mm² (28 … 16 AWG)	28 … 16 AWG
400 V/6 kV/3 ❶	300 V, 10 A
I_N 18 A	300 V, 15 A
Terminal block width: 8 mm / 0.315 inch	
8 … 9 mm / 0.31 … 0.35 inch	

❶ 400 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

See application notes for:
Test plug module, page 474

Approvals and corresponding ratings, visit www.wago.com

2-conductor terminal block; with mounting flange; for screw or similar mounting types; 3.2 mm mounting hole diameter; with mounting foot (209-123) also for DIN-35 rail

Color	Item No.	Pack. Unit
gray	260-301	300 (50)
light gray	260-303	300 (50)
blue	260-304	300 (50)
orange	260-306	300 (50)
green-yellow	260-307	300 (50)

4-conductor terminal block; with mounting flange; for screw or similar mounting types; 3.2 mm mounting hole diameter; with mounting foot (209-123) also for DIN-35 rail

Color	Item No.	Pack. Unit
gray	260-331	300 (50)
light gray	260-333	300 (50)
blue	260-334	300 (50)
orange	260-336	300 (50)
green-yellow	260-337	300 (50)

2-conductor terminal block; with snap-in mounting foot; for 0.6 … 1.2 mm plate thickness; 3.5 mm mounting hole diameter; also for aluminum rail (210-154) or with mounting foot (209-120) for DIN-35 rail

gray	260-311	300 (50)
light gray	260-313	300 (50)
blue	260-314	300 (50)
orange	260-316	300 (50)
green-yellow	260-317	300 (50)

4-conductor terminal block; with snap-in mounting foot; for 0.6 … 1.2 mm plate thickness; 3.5 mm mounting hole diameter; also for aluminum rail (210-154) or with mounting foot (209-120) for DIN-35 rail

gray	260-341	300 (50)
light gray	260-343	300 (50)
blue	260-344	300 (50)
orange	260-346	300 (50)
green-yellow	260-347	300 (50)

Space-saving 2-conductor end terminal block; without protruding snap-in mounting foot; for terminal strips with snap-in mounting feet

gray	260-321	300 (50)
light gray	260-323	300 (50)
blue	260-324	300 (50)
orange	260-326	300 (50)
green-yellow	260-327	300 (50)

Space-saving 4-conductor end terminal block; without protruding snap-in mounting foot; for terminal strips with snap-in mounting feet

gray	260-351	300 (50)
light gray	260-353	300 (50)
blue	260-354	300 (50)
orange	260-356	300 (50)
green-yellow	260-357	300 (50)

Accessories; item-specific

Test plug module; snaps together; 5 mm wide

gray 249-135 100 (25)

Test plug module; with locking latches; snaps together; 5 mm wide

gray 260-404 100 (25)

Accessories; item-specific

Test plug module; snaps together; 8 mm wide

gray 249-138 100 (25)

Test plug module; with locking latches; snaps together; 8 mm wide

gray 260-405 100 (25)

Accessories; 260 Series

Marking accessories, see Section 13

End plate; with mounting flange

gray 260-361 300 (50)

End plate; with snap-in mounting foot

gray 260-371 300 (50)

Comb-style jumper bar; insulated; reduces maximum conductor size to 1 mm²; I_N 10 A; gray

2-way 260-402 25

Operating tool; insulated; for comb-style jumper bar

2-way 209-132 1

Accessories; 260 Series

Marking accessories, see Section 13

Test plug; with 500 mm cable; 2 mm Ø; max. 42 V

red 210-136 50

Test plug; with 500 mm cable; 2 mm Ø; max. 42 V

yellow 210-137 50

Aluminum mounting rail; 1000 mm long; 18 mm wide; 7 mm high

210-154 1

Plastic end stop; with WSB marker slot; for aluminum rail (210-154); 6 mm wide

209-122 25

Mounting foot; for DIN-35 rail; snaps onto terminal blocks with snap-in mounting foot; 6.4 mm wide

gray 209-120 25

Mounting screw; for mounting foot (209-120)

209-119 500 (50)

Mounting foot with screw; for DIN-35 rail; can be screwed on terminal blocks with mounting flange; 6.4 mm wide

gray 209-123 25

Mounting adapter; for DIN-35 rail; can be used as end plate; 6.5 mm wide

gray 209-137 25

Operating tool with a partially insulated shaft; Type 2; (3.5 x 0.5) mm blade

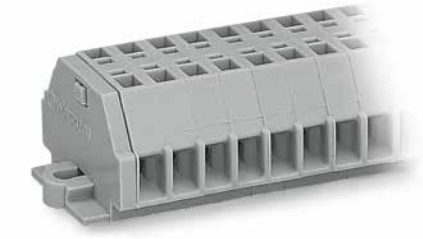
210-720 1

8

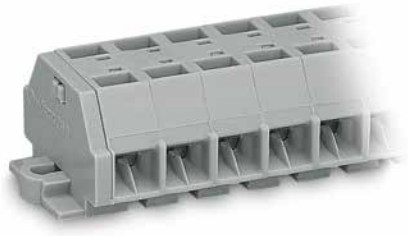
CAGE CLAMP®

Terminal Strip; with Mounting Flanges or Snap-in Mounting Feet
1.5 mm²; 260 Series

Technical Data	
0.08 … 1.5 mm² (28 … 16 AWG)	28 … 16 AWG
400 V/6 kV/3 ❶	300 V, 10 A
I_N 18 A	300 V, 15 A
Pole width: 5 mm / 0.197 inch	
8 … 9 mm / 0.31 … 0.35 inch	



Technical Data	
0.08 … 1.5 mm² (28 … 16 AWG)	28 … 16 AWG
400 V/6 kV/3 ❶	300 V, 10 A
I_N 18 A	300 V, 15 A
Pole width: 8 mm / 0.315 inch	
8 … 9 mm / 0.31 … 0.35 inch	



❶ 400 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

❷ Longer strips and/or mixed-color assemblies are available upon request.

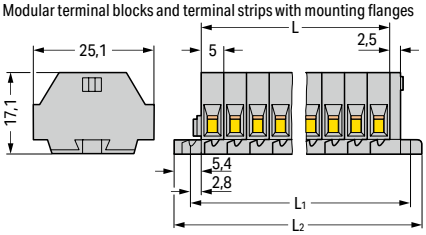
Approvals and corresponding ratings, visit www.wago.com

Terminal strip; with mounting flanges; for screw or similar mounting types; 3.2 mm mounting hole diameter (with 209-123 Mounting Foot for DIN-35 rail)

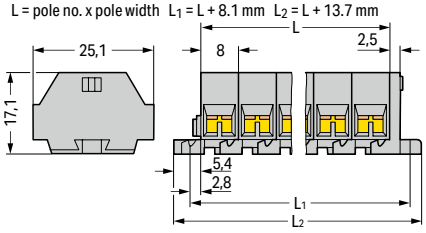
Terminal strip; with snap-in mounting feet; for 0.6 … 1.2 mm plate thickness; 3.5 mm mounting hole diameter (also for 210-154 Aluminum Rail or with 209-120 Mounting Foot for DIN-35 rail)

Dimensions in mm

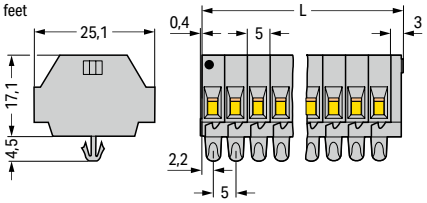
Modular terminal blocks and terminal strips with mounting flanges



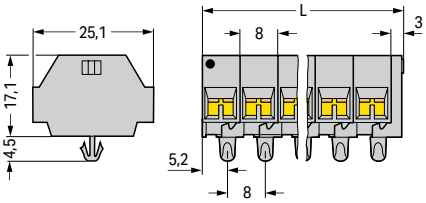
L = pole no. x pole width L_1 = L + 8.1 mm L_2 = L + 13.7 mm



Modular terminal blocks and terminal strips with snap-in mounting feet



L = (pole no. x pole width) + 3 mm • End terminal block



2-conductor terminal strip; with mounting flanges; for screw or similar mounting types; 3.2 mm mounting hole diameter; with mounting foot (209-123) also for DIN-35 rail; gray		
Pole No.	Item No.	Pack. Unit
2	260-102	100
3	260-103	100
4	260-104	100
5	260-105	100
6	260-106	100
7	260-107	100
8	260-108	100
9	260-109	50
10	260-110	50
11	260-111	50
12 ❷	260-112	25

4-conductor terminal strip; with mounting flanges; for screw or similar mounting types; 3.2 mm mounting hole diameter; with mounting foot (209-123) also for DIN-35 rail; gray		
Pole No.	Item No.	Pack. Unit
2	260-202	100
3	260-203	100
4	260-204	100
5	260-205	100
6	260-206	100
7	260-207	100
8	260-208	100
9	260-209	50
10	260-210	50
11	260-211	25
12 ❷	260-212	25

2-conductor terminal strip; with snap-in mounting feet; for 0.6 … 1.2 mm plate thickness; 3.5 mm mounting hole diameter; also for aluminum rail (210-154) or with mounting foot (209-120) for DIN-35 rail; gray		
2	260-152	100
3	260-153	100
4	260-154	100
5	260-155	100
6	260-156	50
7	260-157	50
8	260-158	50
9	260-159	50
10	260-160	25
11	260-161	25
12 ❷	260-162	25

4-conductor terminal strip; with snap-in mounting feet; for 0.6 … 1.2 mm plate thickness; 3.5 mm mounting hole diameter; also for aluminum rail (210-154) or with mounting foot (209-120) for DIN-35 rail; gray		
2	260-252	100
3	260-253	100
4	260-254	100
5	260-255	100
6	260-256	50
7	260-257	50
8	260-258	50
9	260-259	50
10	260-260	25
11	260-261	25
12 ❷	260-262	25

Modular Terminal Block; with Mounting Flange or Snap-In Mounting Foot
2.5 mm²; 261 Series

Technical Data	
0.08 … 2.5 mm²	28 … 14 AWG
500 V/6 kV/3 ❶	300 V, 15 A
I_N 24 A	300 V, 20 A
Terminal block width: 6 mm / 0.236 inch	
8 … 9 mm / 0.31 … 0.35 inch	

Technical Data	
0.08 … 2.5 mm²	28 … 14 AWG
500 V/6 kV/3 ❶	300 V, 15 A
I_N 24 A	300 V, 20 A
Terminal block width: 10 mm / 0.394 inch	
8 … 9 mm / 0.31 … 0.35 inch	

❶ 500 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

❷ Terminal blocks with a blue insulated housing are suitable for Ex i applications.

See application notes for:
Test plug module, page 474

Approvals and corresponding ratings, visit www.wago.com

2-conductor terminal block; with mounting flange; for screw or similar mounting types; 3.2 mm mounting hole diameter; with mounting foot (209-123) also for DIN-35 rail

Color	Item No.	Pack. Unit
gray	261-301	200 (50)
light gray	261-303	200 (50)
blue	261-304 ❷	200 (50)
orange	261-306	200 (50)
green-yellow	261-307	200 (50)

4-conductor terminal block; with mounting flange; for screw or similar mounting types; 3.2 mm mounting hole diameter; with mounting foot (209-123) also for DIN-35 rail

Color	Item No.	Pack. Unit
gray	261-331	200 (50)
light gray	261-333	200 (50)
blue	261-334 ❷	200 (50)
orange	261-336	200 (50)
green-yellow	261-337	200 (50)

2-conductor terminal block; with snap-in mounting foot; for 0.6 … 1.2 mm plate thickness; 3.5 mm mounting hole diameter; also for aluminum rail (210-154) or with mounting foot (209-120) for DIN-35 rail

gray	261-311	200 (50)
light gray	261-313	200 (50)
blue	261-314 ❷	200 (50)
orange	261-316	200 (50)
green-yellow	261-317	200 (50)

4-conductor terminal block; with snap-in mounting foot; for 0.6 … 1.2 mm plate thickness; 3.5 mm mounting hole diameter; also for aluminum rail (210-154) or with mounting foot (209-120) for DIN-35 rail

gray	261-341	200 (50)
light gray	261-343	200 (50)
blue	261-344 ❷	200 (50)
orange	261-346	200 (50)
green-yellow	261-347	200 (50)

Space-saving 2-conductor end terminal block; without protruding snap-in mounting foot; for terminal strips with snap-in mounting feet

gray	261-321	200 (50)
light gray	261-323	200 (50)
blue	261-324 ❷	200 (50)
orange	261-326	200 (50)
green-yellow	261-327	200 (50)

Space-saving 4-conductor end terminal block; without protruding snap-in mounting foot; for terminal strips with snap-in mounting feet

gray	261-351	200 (50)
light gray	261-353	200 (50)
blue	261-354 ❷	200 (50)
orange	261-356	200 (50)
green-yellow	261-357	200 (50)

Accessories; item-specific

Test plug module; snaps together; 6 mm wide

gray | 249-136 | 100 (25)

Test plug module; snaps together; 10 mm wide

gray | 249-139 | 100 (25)

Test plug module; with locking latches; snaps together; 6 mm wide

gray | 261-404 | 100 (25)

Test plug module; with locking latches; snaps together; 10 mm wide

gray | 261-405 | 100 (25)

Accessories; 261 Series

Marking accessories, see Section 13

End plate; with mounting flange

gray | 261-361 | 300 (50)

End plate; with snap-in mounting foot

gray | 261-371 | 300 (50)

Comb-style jumper bar; insulated; reduces maximum conductor size to 1.5 mm²; I_N 16 A; gray

2-way | 261-402 | 25

Operating tool; insulated; for comb-style jumper bar

2-way | 209-132 | 1

Accessories; 261 Series

Marking accessories, see Section 13

Test plug; with 500 mm cable; 2 mm Ø; max. 42 V

red | 210-136 | 50

Test plug; with 500 mm cable; 2 mm Ø; max. 42 V

yellow | 210-137 | 50

Aluminum mounting rail; 1000 mm long; 18 mm wide; 7 mm high

210-154 | 1

Plastic end stop; with WSB marker slot; for aluminum rail (210-154); 6 mm wide

209-122 | 25

Mounting foot; for DIN-35 rail; snaps onto terminal blocks with snap-in mounting foot; 6.4 mm wide

gray | 209-120 | 25

Mounting screw; for mounting foot (209-120)

209-119 | 500 (50)

Mounting foot with screw; for DIN-35 rail; can be screwed on terminal blocks with mounting flange; 6.4 mm wide

gray | 209-123 | 25

Mounting adapter; for DIN-35 rail; can be used as end plate; 6.5 mm wide

gray | 209-137 | 25

Operating tool with a partially insulated shaft; Type 2; (3.5 x 0.5) mm blade

210-720 | 1

CAGE CLAMP®

Terminal Strip; with Mounting Flanges or Snap-in Mounting Feet
2.5 mm²; 261 Series

Technical Data	
0.08 … 2.5 mm²	28 … 14 AWG
500 V/6 kV/3 ❶	300 V, 15 A
I_N 24 A	300 V, 20 A
Pole width: 6 mm / 0.236 inch	
8 … 9 mm / 0.31 … 0.35 inch	

Technical Data	
0.08 … 2.5 mm²	28 … 14 AWG
500 V/6 kV/3 ❶	300 V, 15 A
I_N 24 A	300 V, 20 A
Pole width: 10 mm / 0.394 inch	
8 … 9 mm / 0.31 … 0.35 inch	

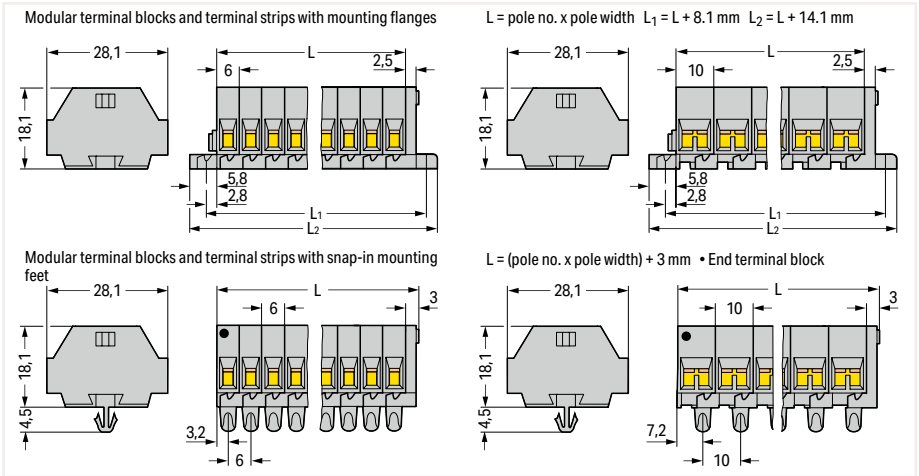
❶ 500 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

❷ Terminal strips with a blue insulated housing are suitable for Ex i applications.
Item no. suffixes …/000-006 (upon request)

❸ Longer strips and/or mixed-color assemblies are available upon request.

Approvals and corresponding ratings, visit www.wago.com

Dimensions in mm



Terminal strip; with mounting flanges; for screw or similar mounting types; 3.2 mm mounting hole diameter (with 209-123 Mounting Foot for DIN-35 rail)

Terminal strip; with snap-in mounting feet; for 0.6 … 1.2 mm plate thickness; 3.5 mm mounting hole diameter (also for 210-154 Aluminum Rail or with 209-120 Mounting Foot for DIN-35 rail)

8

2-conductor terminal strip; with mounting flanges; for screw or similar mounting types; 3.2 mm mounting hole diameter; with mounting foot (209-123) also for DIN-35 rail; gray ❷

Pole No.	Item No.	Pack. Unit
2	261-102	100
3	261-103	100
4	261-104	100
5	261-105	200
6	261-106	50
7	261-107	50
8	261-108	50
9	261-109	50
10	261-110	25
11	261-111	25
12 ❸	261-112	25

4-conductor terminal strip; with mounting flanges; for screw or similar mounting types; 3.2 mm mounting hole diameter; with mounting foot (209-123) also for DIN-35 rail; gray ❷

Pole No.	Item No.	Pack. Unit
2	261-202	100
3	261-203	100
4	261-204	100
5	261-205	100
6	261-206	50
7	261-207	50
8	261-208	50
9	261-209	50
10	261-210	25
11	261-211	25
12 ❸	261-212	25

2-conductor terminal strip; with snap-in mounting feet; for 0.6 … 1.2 mm plate thickness; 3.5 mm mounting hole diameter; also for aluminum rail (210-154) or with mounting foot (209-120) for DIN-35 rail; gray ❷

2	261-152	100
3	261-153	100
4	261-154	100
5	261-155	100
6	261-156	50
7	261-157	50
8	261-158	50
9	261-159	50
10	261-160	25
11	261-161	25
12 ❸	261-162	25

4-conductor terminal strip; with snap-in mounting feet; for 0.6 … 1.2 mm plate thickness; 3.5 mm mounting hole diameter; also for aluminum rail (210-154) or with mounting foot (209-120) for DIN-35 rail; gray ❷

2	261-252	100
3	261-253	100
4	261-254	100
5	261-255	100
6	261-256	50
7	261-257	50
8	261-258	50
9	261-259	50
10	261-260	25
11	261-261	25
12 ❸	261-262	25

CAGE CLAMP®

Modular Terminal Block; with Push-Buttons on One Side; with Mounting Flange or Snap-In Mounting Foot

2.5 mm²; 261 Series

Technical Data	
0.08 … 2.5 mm²	28 … 14 AWG
500 V/6 kV/3 ❶	300 V, 15 A
I_N 24 A	300 V, 20 A
Terminal block width: 6 mm / 0.236 inch	
8 … 9 mm / 0.31 … 0.35 inch	

Technical Data	
0.08 … 2.5 mm²	28 … 14 AWG
500 V/6 kV/3 ❶	300 V, 15 A
I_N 24 A	300 V, 20 A
Terminal block width: 10 mm / 0.394 inch	
8 … 9 mm / 0.31 … 0.35 inch	

❶ 500 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

❷ Terminal blocks with a blue insulated housing are suitable for Ex i applications.

Approvals and corresponding ratings, visit www.wago.com

2-conductor terminal block; with push-button on one side; with mounting flange; for screw or similar mounting types; 3.2 mm mounting hole diameter; with mounting foot (209-123) also for DIN-35 rail

Color	Item No.	Pack. Unit
gray	261-301/331-000	200 (50)
light gray	261-303/331-000	200 (50)
blue	261-304/331-000 ❷	200 (50)
orange	261-306/331-000	200 (50)
green-yellow	261-307/331-000	200 (50)

4-conductor terminal block; with push-button on one side; with mounting flange; for screw or similar mounting types; 3.2 mm mounting hole diameter; with mounting foot (209-123) also for DIN-35 rail

Color	Item No.	Pack. Unit
gray	261-331/332-000	200 (50)
light gray	261-333/332-000	200 (50)
blue	261-334/332-000 ❷	200 (50)
orange	261-336/332-000	200 (50)
green-yellow	261-337/332-000	200 (50)

2-conductor terminal block; with push-button on one side; with snap-in mounting foot; for 0.6 … 1.2 mm plate thickness; 3.5 mm mounting hole diameter; also for aluminum rail (210-154) or with mounting foot (209-120) for DIN-35 rail

gray	261-311/331-000	200 (50)
light gray	261-313/331-000	200 (50)
blue	261-314/331-000 ❷	200 (50)
orange	261-316/331-000	200 (50)
green-yellow	261-317/331-000	200 (50)

4-conductor terminal block; with push-button on one side; with snap-in mounting foot; for 0.6 … 1.2 mm plate thickness; 3.5 mm mounting hole diameter; also for aluminum rail (210-154) or with mounting foot (209-120) for DIN-35 rail

gray	261-341/332-000	200 (50)
light gray	261-343/332-000	200 (50)
blue	261-344/332-000 ❷	200 (50)
orange	261-346/332-000	200 (50)
green-yellow	261-347/332-000	200 (50)

Space-saving 2-conductor end terminal block; with push-button on one side; without protruding snap-in mounting foot; for terminal strips with snap-in mounting feet

gray	261-321/331-000	200 (50)
light gray	261-323/331-000	200 (50)
blue	261-324/331-000 ❷	200 (50)
orange	261-326/331-000	200 (50)
green-yellow	261-327/331-000	200 (50)

Space-saving 4-conductor end terminal block; with push-button on one side; without protruding snap-in mounting foot; for terminal strips with snap-in mounting feet

gray	261-351/332-000	200 (50)
light gray	261-353/332-000	200 (50)
blue	261-354/332-000 ❷	200 (50)
orange	261-356/332-000	200 (50)
green-yellow	261-357/332-000	200 (50)

Accessories; 261 Series

Marking accessories, see Section 13

End plate; with mounting flange

gray 261-361 300 (50)

End plate; with snap-in mounting foot

gray 261-371 300 (50)

Comb-style jumper bar; insulated; reduces maximum conductor size to 1.5 mm²; I_N 16 A; gray

2-way 261-402 25

Operating tool; insulated; for comb-style jumper bar

2-way 209-132 1

Test plug; with 500 mm cable; 2 mm Ø; max. 42 V

red 210-136 50

Test plug; with 500 mm cable; 2 mm Ø; max. 42 V

yellow 210-137 50

Aluminum mounting rail; 1000 mm long; 18 mm wide; 7 mm high

210-154 1

Plastic end stop; with WSB marker slot; for aluminum rail (210-154); 6 mm wide

209-122 25

Accessories; 261 Series

Marking accessories, see Section 13

Mounting foot; for DIN-35 rail; snaps onto terminal blocks with snap-in mounting foot; 6.4 mm wide

gray 209-120 25

Mounting screw; for mounting foot (209-120)

209-119 500 (50)

Mounting foot with screw; for DIN-35 rail; can be screwed on terminal blocks with mounting flange; 6.4 mm wide

gray 209-123 25

Mounting adapter; for DIN-35 rail; can be used as end plate; 6.5 mm wide

gray 209-137 25

Operating tool with a partially insulated shaft; Type 2; (3.5 x 0.5) mm blade

210-720 1

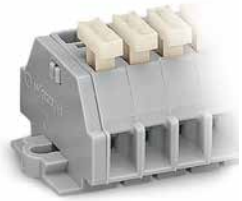
8

CAGE CLAMP®

Terminal Strip; with Push-Buttons on One Side; with Mounting Flanges or Snap-in Mounting Feet
2.5 mm²; 261 Series

Technical Data	
0.08 … 2.5 mm²	28 … 14 AWG
500 V/6 kV/3 ❶	
I_N 24 A	
Pole width: 6 mm / 0.236 inch	
8 … 9 mm / 0.31 … 0.35 inch	

Technical Data	
0.08 … 2.5 mm²	28 … 14 AWG
500 V/6 kV/3 ❶	
I_N 24 A	
Pole width: 10 mm / 0.394 inch	
8 … 9 mm / 0.31 … 0.35 inch	



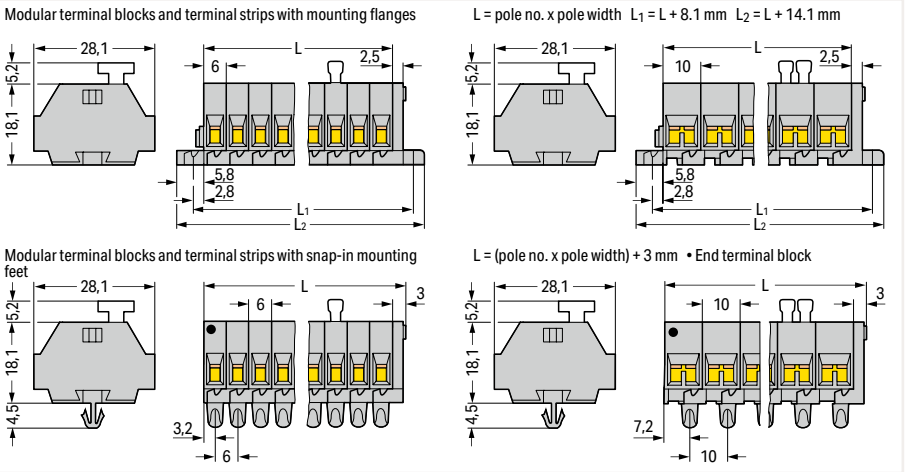
❶ 500 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

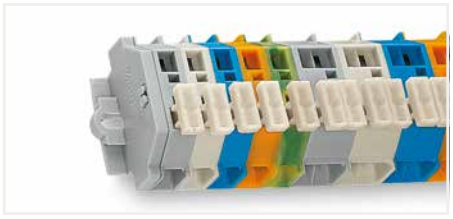
❷ Terminal strips with a blue insulated housing are suitable for Ex i applications.
Item no. suffixes …/000-006 (upon request)

❸ Longer strips and/or mixed-color assemblies are available upon request.

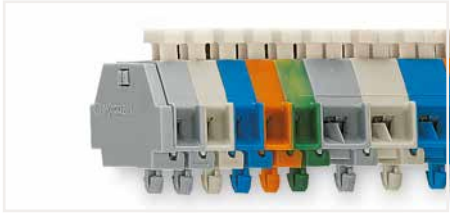
Approvals and corresponding ratings, visit www.wago.com

Dimensions in mm





Terminal strip; with mounting flanges; for screw or similar mounting types; 3.2 mm mounting hole diameter (with 209-123 Mounting Foot for DIN-35 rail)



Terminal strip; with snap-in mounting feet; for 0.6 … 1.2 mm plate thickness; 3.5 mm mounting hole diameter (also for 210-154 Aluminum Rail or with 209-120 Mounting Foot for DIN-35 rail)

8

2-conductor terminal strip; with push-buttons on one side; with mounting flanges; for screw or similar mounting types; 3.2 mm mounting hole diameter; with mounting foot (209-123) also for DIN-35 rail; gray ❷

Pole No.	Item No.	Pack. Unit
2	261-102/331-000	100
3	261-103/331-000	100
4	261-104/331-000	100
5	261-105/331-000	200
6	261-106/331-000	50
7	261-107/331-000	50
8	261-108/331-000	50
9	261-109/331-000	50
10	261-110/331-000	25
11	261-111/331-000	25
12 ❸	261-112/331-000	25

4-conductor terminal strip; with push-buttons on one side; with mounting flanges; for screw or similar mounting types; 3.2 mm mounting hole diameter; with mounting foot (209-123) also for DIN-35 rail; gray ❷

Pole No.	Item No.	Pack. Unit
2	261-202/332-000	100
3	261-203/332-000	100
4	261-204/332-000	100
5	261-205/332-000	100
6	261-206/332-000	50
7	261-207/332-000	50
8	261-208/332-000	50
9	261-209/332-000	50
10	261-210/332-000	50
11	261-211/332-000	25
12 ❸	261-212/332-000	50

2-conductor terminal strip; with push-buttons on one side; with snap-in mounting feet; for 0.6 … 1.2 mm plate thickness; 3.5 mm mounting hole diameter; also for aluminum rail (210-154) or with mounting foot (209-120) for DIN-35 rail; gray ❷

2	261-152/331-000	100
3	261-153/331-000	100
4	261-154/331-000	100
5	261-155/331-000	100
6	261-156/331-000	50
7	261-157/331-000	50
8	261-158/331-000	50
9	261-159/331-000	50
10	261-160/331-000	25
11	261-161/331-000	25
12 ❸	261-162/331-000	25

4-conductor terminal strip; with push-buttons on one side; with snap-in mounting feet; for 0.6 … 1.2 mm plate thickness; 3.5 mm mounting hole diameter; also for aluminum rail (210-154) or with mounting foot (209-120) for DIN-35 rail; gray ❷

2	261-252/332-000	100
3	261-253/332-000	100
4	261-254/332-000	100
5	261-255/332-000	100
6	261-256/332-000	50
7	261-257/332-000	50
8	261-258/332-000	50
9	261-259/332-000	50
10	261-260/332-000	25
11	261-261/332-000	100
12 ❸	261-262/332-000	25

CAGE CLAMP®

Modular Terminal Block; with Push-Buttons on Both Sides; with Mounting Flange or Snap-In Mounting Foot

2.5 mm²; 261 Series

Technical Data	
0.08 … 2.5 mm²	28 … 14 AWG
500 V/6 kV/3 ❶	300 V, 15 A
I_N 24 A	300 V, 20 A
Terminal block width: 6 mm / 0.236 inch	
8 … 9 mm / 0.31 … 0.35 inch	

Technical Data	
0.08 … 2.5 mm²	28 … 14 AWG
500 V/6 kV/3 ❶	300 V, 15 A
I_N 24 A	300 V, 20 A
Terminal block width: 10 mm / 0.394 inch	
8 … 9 mm / 0.31 … 0.35 inch	

❶ 500 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

❷ Terminal blocks with a blue insulated housing are suitable for Ex i applications.

Approvals and corresponding ratings, visit www.wago.com

2-conductor terminal block; with push-buttons on both sides; with mounting flange; for screw or similar mounting types; 3.2 mm mounting hole diameter; with mounting foot (209-123) also for DIN-35 rail

Color	Item No.	Pack. Unit
gray	261-301/341-000	200 (50)
light gray	261-303/341-000	200 (50)
blue	261-304/341-000 ❷	200 (50)
orange	261-306/341-000	200 (50)
green-yellow	261-307/341-000	200 (50)

4-conductor terminal block; with push-buttons on both sides; with mounting flange; for screw or similar mounting types; 3.2 mm mounting hole diameter; with mounting foot (209-123) also for DIN-35 rail

Color	Item No.	Pack. Unit
gray	261-331/342-000	200 (50)
light gray	261-333/342-000	200 (50)
blue	261-334/342-000 ❷	200 (50)
orange	261-336/342-000	200 (50)
green-yellow	261-337/342-000	200 (50)

2-conductor terminal block; with push-buttons on both sides; with snap-in mounting foot; for 0.6 … 1.2 mm plate thickness; 3.5 mm mounting hole diameter; also for aluminum rail (210-154) or with mounting foot (209-120) for DIN-35 rail

gray	261-311/341-000	200 (50)
light gray	261-313/341-000	200 (50)
blue	261-314/341-000 ❷	200 (50)
orange	261-316/341-000	200 (50)
green-yellow	261-317/341-000	200 (50)

4-conductor terminal block; with push-buttons on both sides; with snap-in mounting foot; for 0.6 … 1.2 mm plate thickness; 3.5 mm mounting hole diameter; also for aluminum rail (210-154) or with mounting foot (209-120) for DIN-35 rail

gray	261-341/342-000	200 (50)
light gray	261-343/342-000	200 (50)
blue	261-344/342-000 ❷	200 (50)
orange	261-346/342-000	200 (50)
green-yellow	261-347/342-000	200 (50)

Space-saving 2-conductor end terminal block; with push-buttons on both sides; without protruding snap-in mounting foot; for terminal strips with snap-in mounting feet

gray	261-321/341-000	200 (50)
light gray	261-323/341-000	200 (50)
blue	261-324/341-000 ❷	200 (50)
orange	261-326/341-000	200 (50)
green-yellow	261-327/341-000	200 (50)

Space-saving 4-conductor end terminal block; with push-buttons on both sides; without protruding snap-in mounting foot; for terminal strips with snap-in mounting feet

gray	261-351/342-000	200 (50)
light gray	261-353/342-000	200 (50)
blue	261-354/342-000 ❷	200 (50)
orange	261-356/342-000	200 (50)
green-yellow	261-357/342-000	200 (50)

Accessories; 261 Series

Marking accessories, see Section 13

End plate; with mounting flange

gray 261-361 300 (50)

End plate; with snap-in mounting foot

gray 261-371 300 (50)

Comb-style jumper bar; insulated; reduces maximum conductor size to 1.5 mm²; I_N 16 A; gray

2-way 261-402 25

Operating tool; insulated; for comb-style jumper bar

2-way 209-132 1

Test plug; with 500 mm cable; 2 mm Ø; max. 42 V

red 210-136 50

Test plug; with 500 mm cable; 2 mm Ø; max. 42 V

yellow 210-137 50

Aluminum mounting rail; 1000 mm long; 18 mm wide; 7 mm high

210-154 1

Plastic end stop; with WSB marker slot; for aluminum rail (210-154); 6 mm wide

209-122 25

Accessories; 261 Series

Marking accessories, see Section 13

Mounting foot; for DIN-35 rail; snaps onto terminal blocks with snap-in mounting foot; 6.4 mm wide

gray 209-120 25

Mounting screw; for mounting foot (209-120)

209-119 500 (50)

Mounting foot with screw; for DIN-35 rail; can be screwed on terminal blocks with mounting flange; 6.4 mm wide

gray 209-123 25

Mounting adapter; for DIN-35 rail; can be used as end plate; 6.5 mm wide

gray 209-137 25

Operating tool with a partially insulated shaft; Type 2; (3.5 x 0.5) mm blade

210-720 1

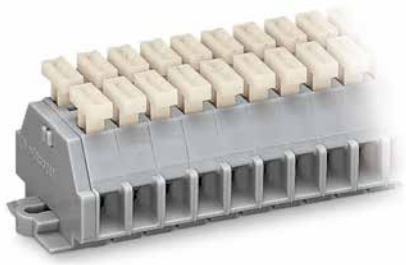
8

CAGE CLAMP®

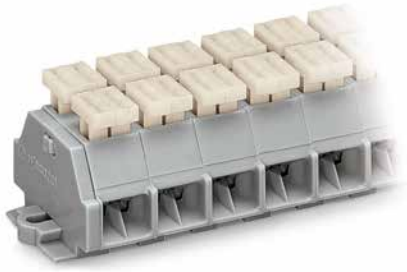
Terminal Strip; with Push-Buttons on Both Sides; with Mounting Flanges or Snap-in Mounting Feet

2.5 mm²; 261 Series

Technical Data	
0.08 … 2.5 mm²	28 … 14 AWG
500 V/6 kV/3 ❶	
I_N 24 A	
Pole width: 6 mm / 0.236 inch	
8 … 9 mm / 0.31 … 0.35 inch	



Technical Data	
0.08 … 2.5 mm²	28 … 14 AWG
500 V/6 kV/3 ❶	
I_N 24 A	
Pole width: 10 mm / 0.394 inch	
8 … 9 mm / 0.31 … 0.35 inch	



❶ 500 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

❷ Terminal strips with a blue insulated housing are suitable for Ex i applications.
Item no. suffixes …/000-006 (upon request)

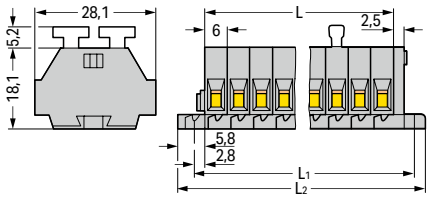
❸ Longer strips and/or mixed-color assemblies are available upon request.

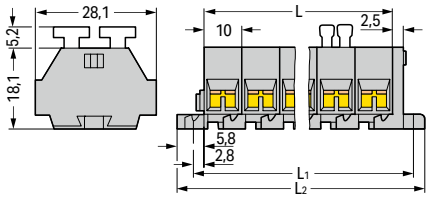
Approvals and corresponding ratings, visit www.wago.com

Dimensions in mm

Modular terminal blocks and terminal strips with mounting flanges

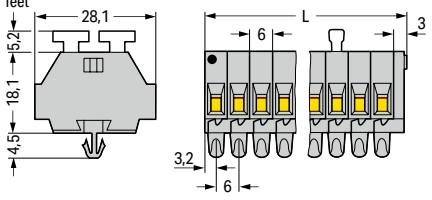
L = pole no. x pole width L_1 = L + 8.1 mm L_2 = L + 14.1 mm

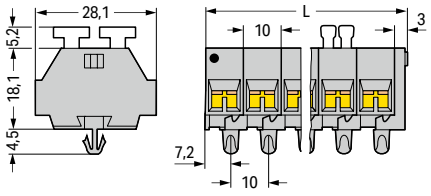


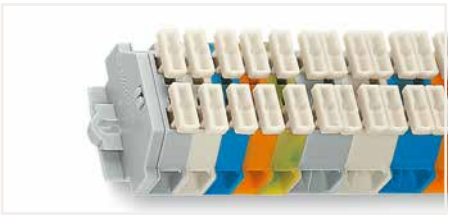


Modular terminal blocks and terminal strips with snap-in mounting feet

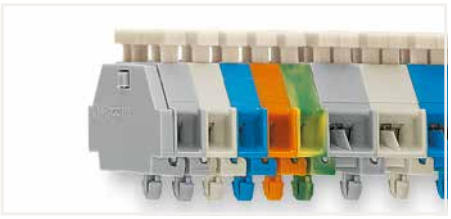
L = (pole no. x pole width) + 3 mm • End terminal block







Terminal strip; with mounting flanges; for screw or similar mounting types; 3.2 mm mounting hole diameter (with 209-123 Mounting Foot for DIN-35 rail)



Terminal strip; with snap-in mounting feet; for 0.6 … 1.2 mm plate thickness; 3.5 mm mounting hole diameter (also for 210-154 Aluminum Rail or with 209-120 Mounting Foot for DIN-35 rail)

8

2-conductor terminal strip; with push-buttons on both sides; with mounting flanges; for screw or similar mounting types; 3.2 mm mounting hole diameter; with mounting foot (209-123) also for DIN-35 rail; gray ❷

Pole No.	Item No.	Pack. Unit
2	261-102/341-000	100
3	261-103/341-000	100
4	261-104/341-000	50
5	261-105/341-000	100
6	261-106/341-000	25
7	261-107/341-000	50
8	261-108/341-000	50
9	261-109/341-000	100
10	261-110/341-000	25
11	261-111/341-000	25
12 ❸	261-112/341-000	25

4-conductor terminal strip; with push-buttons on both sides; with mounting flanges; for screw or similar mounting types; 3.2 mm mounting hole diameter; with mounting foot (209-123) also for DIN-35 rail; gray ❷

Pole No.	Item No.	Pack. Unit
2	261-202/342-000	100
3	261-203/342-000	100
4	261-204/342-000	100
5	261-205/342-000	100
6	261-206/342-000	50
7	261-207/342-000	50
8	261-208/342-000	100
9	261-209/342-000	50
10	261-210/342-000	25
11	261-211/342-000	25
12 ❸	261-212/342-000	50

2-conductor terminal strip; with push-buttons on both sides; with snap-in mounting feet; for 0.6 … 1.2 mm plate thickness; 3.5 mm mounting hole diameter; also for aluminum rail (210-154) or with mounting foot (209-120) for DIN-35 rail; gray ❷

2	261-152/341-000	100
3	261-153/341-000	100
4	261-154/341-000	50
5	261-155/341-000	100
6	261-156/341-000	100
7	261-157/341-000	50
8	261-158/341-000	50
9	261-159/341-000	50
10	261-160/341-000	25
11	261-161/341-000	25
12 ❸	261-162/341-000	100

4-conductor terminal strip; with push-buttons on both sides; with snap-in mounting feet; for 0.6 … 1.2 mm plate thickness; 3.5 mm mounting hole diameter; also for aluminum rail (210-154) or with mounting foot (209-120) for DIN-35 rail; gray ❷

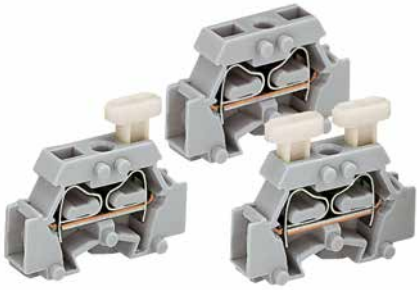
2	261-252/342-000	100
3	261-253/342-000	100
4	261-254/342-000	100
5	261-255/342-000	100
6	261-256/342-000	50
7	261-257/342-000	50
8	261-258/342-000	50
9	261-259/342-000	50
10	261-260/342-000	25
11	261-261/342-000	100
12 ❸	261-262/342-000	25

CAGE CLAMP®

Modular Terminal Block; with Mounting Flange; with Marker Slot for Mini-WSB Quick Marking System

2.5 mm²; 261 Series

Technical Data	
0.08 … 2.5 mm²	28 … 14 AWG
500 V/6 kV/3 ❶	300 V, 15 A
I_N 24 A	300 V, 20 A
Terminal block width: 6 mm / 0.236 inch	
8 … 9 mm / 0.31 … 0.35 inch	



❶ 500 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

Approvals and corresponding ratings, visit www.wago.com

Accessories; 261 Series

Marking accessories, see Section 13

Mini-WSB marking card; white; 10 strips with 10 markers/card; 5 mm wide markers

plain 248-501 5

Operating tool with a partially insulated shaft; Type 2; (3.5 x 0.5) mm blade

210-720 1

2-conductor terminal block; with mounting flange; for screw or similar mounting types; 3.2 mm mounting hole diameter; with mounting foot (209-123) also for DIN-35 rail

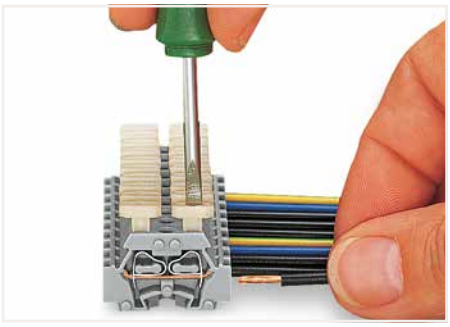
Color	Item No.	Pack. Unit
gray	261-411	200 (50)

2-conductor terminal block; with push-button on one side; with mounting flange; for screw or similar mounting types; 3.2 mm mounting hole diameter; with mounting foot (209-123) also for DIN-35 rail

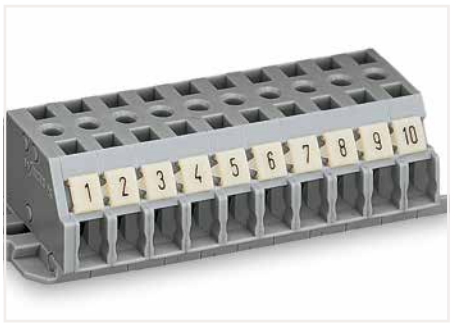
gray	261-411/331-000	200 (50)

2-conductor terminal block; with push-buttons on both sides; with mounting flange; for screw or similar mounting types; 3.2 mm mounting hole diameter; with mounting foot (209-123) also for DIN-35 rail

gray	261-411/341-000	200 (50)



CAGE CLAMP® termination:
Inserting a conductor via push-button.



Terminal strip; with marker slot for Mini-WSB Quick Marking System

Accessories; 261 Series

Marking accessories, see Section 13

End plate; with mounting flange

gray 261-410 300 (50)

Comb-style jumper bar; insulated; reduces maximum conductor size to 1 mm²; I_N 10 A; gray

2-way 261-402 25

Operating tool; insulated; for comb-style jumper bar

2-way 209-132 1

Test plug; with 500 mm cable; 2 mm Ø; max. 42 V

red 210-136 50

Mounting foot with screw; for DIN-35 rail; can be screwed on terminal blocks with mounting flange; 6.4 mm wide

gray 209-123 25

Mounting adapter; for DIN-35 rail; can be used as end plate; 6.5 mm wide

gray 209-137 25

Testing with voltage tester.

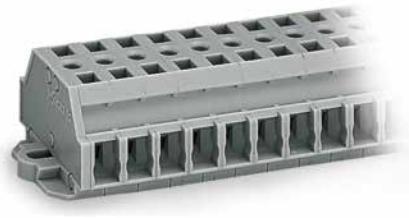
8

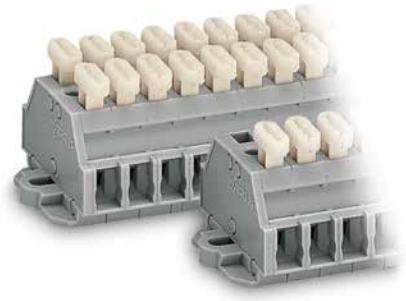
CAGE CLAMP®

Terminal Strip; with Mounting Flanges; with Marker Slot for Mini-WSB Quick Marking System
2.5 mm²; 261 Series

Technical Data	
0.08 … 2.5 mm²	28 … 14 AWG
500 V/6 kV/3 ❶	300 V, 15 A
I_N 24 A	300 V, 20 A
Pole width: 6 mm / 0.236 inch	
8 … 9 mm / 0.31 … 0.35 inch	

Technical Data	
0.08 … 2.5 mm²	28 … 14 AWG
500 V/6 kV/3 ❶	300 V, 15 A
I_N 24 A	300 V, 20 A
Pole width: 6 mm / 0.236 inch	
8 … 9 mm / 0.31 … 0.35 inch	





❶ 500 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

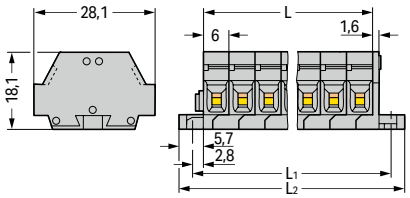
❷ Longer strips are available upon request.

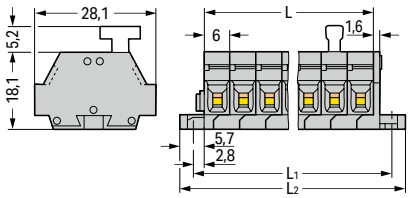
Approvals and corresponding ratings, visit www.wago.com

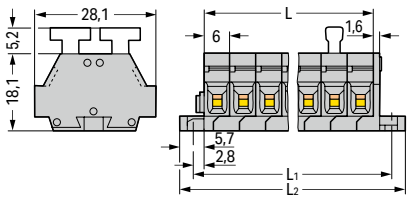
Dimensions in mm

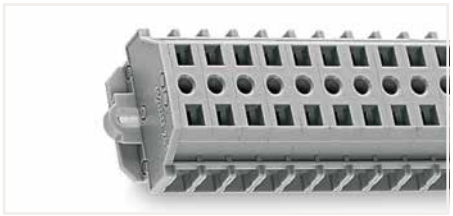
Modular terminal blocks and terminal strips with mounting flanges

L = pole no. x pole width L_1 = L + 7.2 mm L_2 = L + 13 mm

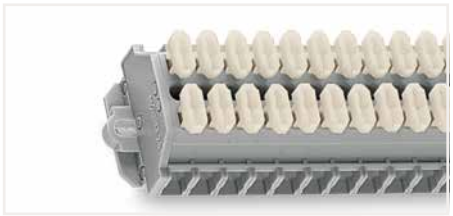








Terminal strip; with mounting flanges; for screw or similar mounting types; 3.2 mm mounting hole diameter (with 209-123 Mounting Foot for DIN-35 rail)



Terminal strip; with mounting flanges; for screw or similar mounting types; 3.2 mm mounting hole diameter (with 209-123 Mounting Foot for DIN-35 rail)

2-conductor terminal strip; with mounting flanges; for screw or similar mounting types; 3.2 mm mounting hole diameter; with mounting foot (209-123) also for DIN-35 rail; gray

Pole No.	Item No.	Pack. Unit
2	261-422	100
3	261-423	100
4	261-424	100
5	261-425	200
6	261-426	50
7	261-427	50
8	261-428	50
9	261-429	50
10	261-430	25
11	261-431	25
12 ❷	261-432	25

2-conductor terminal strip; with push-buttons on one side; with mounting flanges; for screw or similar mounting types; 3.2 mm mounting hole diameter; with mounting foot (209-123) also for DIN-35 rail; gray

Pole No.	Item No.	Pack. Unit
2	261-422/331-000	100
3	261-423/331-000	100
4	261-424/331-000	100
5	261-425/331-000	100
6	261-426/331-000	50
7	261-427/331-000	50
8	261-428/331-000	50
9	261-429/331-000	50
10	261-430/331-000	25
11	261-431/331-000	25
12 ❸	261-432/331-000	25

2-conductor terminal strip; with push-buttons on both sides; with mounting flanges; for screw or similar mounting types; 3.2 mm mounting hole diameter; with mounting foot (209-123) also for DIN-35 rail; gray

2	261-422/341-000	100
3	261-423/341-000	100
4	261-424/341-000	100
5	261-425/341-000	100
6	261-426/341-000	50
7	261-427/341-000	50
8	261-428/341-000	50
9	261-429/341-000	50
10	261-430/341-000	25
11	261-431/341-000	25
12 ❸	261-432/341-000	25

CAGE CLAMP®

Modular Terminal Block; with Mounting Flange or Snap-In Mounting Foot
4 mm²; 262 Series

Technical Data	
0.08 … 4 mm²	28 … 12 AWG
630 V/8 kV/3 ❶	300 V, 20 A
I_N 24 A	300 V, 20 A
Terminal block width: 7 mm / 0.276 inch	
9 … 10 mm / 0.35 … 0.39 inch	

Technical Data	
0.08 … 4 mm²	28 … 12 AWG
630 V/8 kV/3 ❶	300 V, 20 A
I_N 32 A	300 V, 20 A
Terminal block width: 12 mm / 0.472 inch	
9 … 10 mm / 0.35 … 0.39 inch	

❶ 630 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

❷ Terminal blocks with a blue insulated housing are suitable for Ex i applications.

See application notes for:
Test plug module, page 474

Approvals and corresponding ratings, visit www.wago.com

2-conductor terminal block; with mounting flange; for screw or similar mounting types; 3.2 mm mounting hole diameter; with mounting foot (209-123) also for DIN-35 rail

Color	Item No.	Pack. Unit
gray	262-301	100 (50)
blue	262-304 ❷	100 (50)
orange	262-306	100 (50)
green-yellow	262-307	100 (50)

4-conductor terminal block; with mounting flange; for screw or similar mounting types; 3.2 mm mounting hole diameter; with mounting foot (209-123) also for DIN-35 rail

Color	Item No.	Pack. Unit
gray	262-331	100 (50)
blue	262-334 ❷	100 (50)
orange	262-336	100 (50)
green-yellow	262-337	100 (50)

2-conductor terminal block; with snap-in mounting foot; for 0.6 … 1.2 mm plate thickness; 3.5 mm mounting hole diameter; also for aluminum rail (210-154) or with mounting foot (209-120) for DIN-35 rail

gray	262-311	100 (50)
blue	262-314 ❷	100 (50)
orange	262-316	100 (50)
green-yellow	262-317	100 (50)

4-conductor terminal block; with snap-in mounting foot; for 0.6 … 1.2 mm plate thickness; 3.5 mm mounting hole diameter; also for aluminum rail (210-154) or with mounting foot (209-120) for DIN-35 rail

gray	262-341	100 (50)
blue	262-344 ❷	100 (50)
orange	262-346	100 (50)
green-yellow	262-347	100 (50)

Space-saving 2-conductor end terminal block; without protruding snap-in mounting foot; for terminal strips with snap-in mounting feet

gray	262-321	100 (50)
blue	262-324 ❷	100 (50)
orange	262-326	100 (50)
green-yellow	262-327	100 (50)

Space-saving 4-conductor end terminal block; without protruding snap-in mounting foot; for terminal strips with snap-in mounting feet

gray	262-351	100 (50)
blue	262-354 ❷	100 (50)
orange	262-356	100 (50)
green-yellow	262-357	100 (50)

Accessories; item-specific

Test plug module; snaps together; 7 mm wide

gray 249-137 100 (25)

Accessories; item-specific

Test plug module; snaps together; 12 mm wide

gray 249-140 100 (25)

Accessories; 262 Series

Marking accessories, see Section 13

End plate; with mounting flange

gray 262-361 300 (50)

End plate; with snap-in mounting foot

gray 262-371 300 (50)

Comb-style jumper bar; insulated; reduces maximum conductor size to 2.5 mm²; I_N 16 A; gray

2-way 262-402 25

Operating tool; insulated; for comb-style jumper bar

2-way 209-132 1

Test plug; with 500 mm cable; 2 mm Ø; max. 42 V

red 210-136 50

Test plug; with 500 mm cable; 2 mm Ø; max. 42 V

yellow 210-137 50

Aluminum mounting rail; 1000 mm long; 18 mm wide; 7 mm high

210-154 1

Plastic end stop; with WSB marker slot; for aluminum rail (210-154); 6 mm wide

209-122 25

Accessories; 262 Series

Marking accessories, see Section 13

Mounting foot; for DIN-35 rail; snaps onto terminal blocks with snap-in mounting foot; 6.4 mm wide

gray 209-120 25

Mounting screw; for mounting foot (209-120)

209-119 500 (50)

Mounting foot with screw; for DIN-35 rail; can be screwed on terminal blocks with mounting flange; 6.4 mm wide

gray 209-123 25

Mounting adapter; for DIN-35 rail; can be used as end plate; 6.5 mm wide

gray 209-137 25

Operating tool with a partially insulated shaft; Type 2; (3.5 x 0.5) mm blade

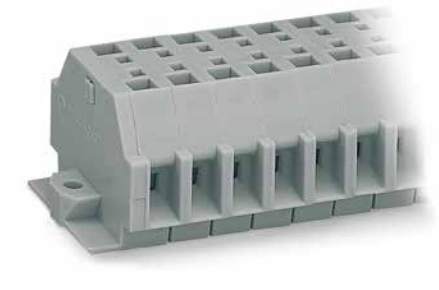
210-720 1

8

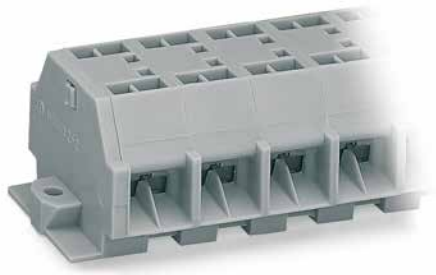
CAGE CLAMP®

Terminal Strip; with Mounting Flanges or Snap-in Mounting Feet
4 mm²; 262 Series

Technical Data	
0.08 … 4 mm²	28 … 12 AWG
630 V/8 kV/3 ❶	300 V, 20 A
I_N 24 A	300 V, 20 A
Pole width: 7 mm / 0.276 inch	
9 … 10 mm / 0.35 … 0.39 inch	



Technical Data	
0.08 … 4 mm²	28 … 12 AWG
630 V/8 kV/3 ❶	300 V, 20 A
I_N 32 A	300 V, 20 A
Pole width: 12 mm / 0.472 inch	
9 … 10 mm / 0.35 … 0.39 inch	



❶ 630 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

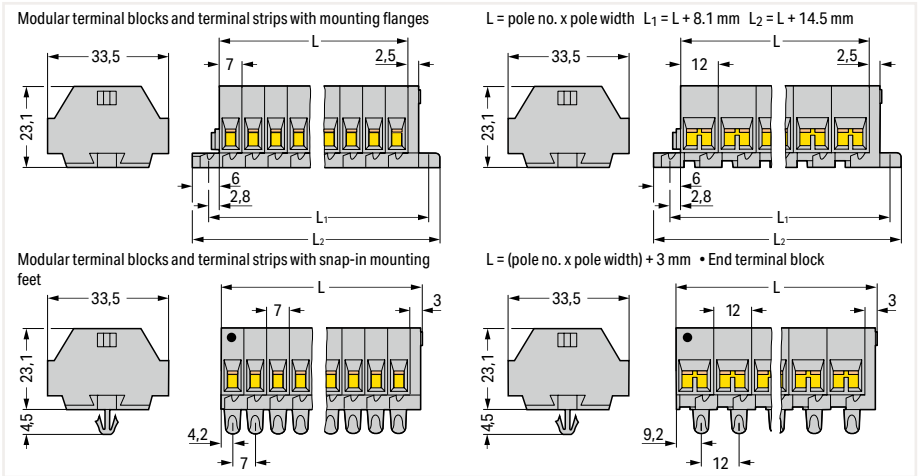
❷ Terminal strips with a blue insulated housing are suitable for Ex i applications.
Item no. suffixes …/000-006 (upon request)

❸ Longer strips and/or mixed-color assemblies are available upon request.

Approvals and corresponding ratings, visit www.wago.com

Terminal strip; with mounting flanges; for screw or similar mounting types; 3.2 mm mounting hole diameter (with 209-123 Mounting Foot for DIN-35 rail)

Dimensions in mm



Terminal strip; with snap-in mounting feet; for 0.6 … 1.2 mm plate thickness; 3.5 mm mounting hole diameter (also for 210-154 Aluminum Rail or with 209-120 Mounting Foot for DIN-35 rail)

8

2-conductor terminal strip; with mounting flanges; for screw or similar mounting types; 3.2 mm mounting hole diameter; with mounting foot (209-123) also for DIN-35 rail; gray ❷

Pole No.	Item No.	Pack. Unit
2	262-102	100
3	262-103	100
4	262-104	100
5	262-105	100
6	262-106	100
7	262-107	100
8	262-108	100
9	262-109	50
10	262-110	25
11	262-111	25
12 ❸	262-112	25

4-conductor terminal strip; with mounting flanges; for screw or similar mounting types; 3.2 mm mounting hole diameter; with mounting foot (209-123) also for DIN-35 rail; gray ❷

Pole No.	Item No.	Pack. Unit
2	262-202	100
3	262-203	100
4	262-204	100
5	262-205	100
6	262-206	50
7	262-207	50
8	262-208	50
9	262-209	50
10	262-210	25
11	262-211	25
12 ❸	262-212	25

2-conductor terminal strip; with snap-in mounting feet; for 0.6 … 1.2 mm plate thickness; 3.5 mm mounting hole diameter; also for aluminum rail (210-154) or with mounting foot (209-120) for DIN-35 rail; gray ❷

2	262-152	100
3	262-153	100
4	262-154	100
5	262-155	100
6	262-156	50
7	262-157	50
8	262-158	50
9	262-159	50
10	262-160	25
11	262-161	25
12 ❸	262-162	25

4-conductor terminal strip; with snap-in mounting feet; for 0.6 … 1.2 mm plate thickness; 3.5 mm mounting hole diameter; also for aluminum rail (210-154) or with mounting foot (209-120) for DIN-35 rail; gray ❷

2	262-252	100
3	262-253	100
4	262-254	100
5	262-255	100
6	262-256	50
7	262-257	50
8	262-258	50
9	262-259	50
10	262-260	25
11	262-261	25
12 ❸	262-262	25

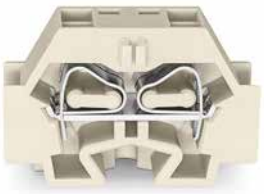
CAGE CLAMP®

Modular Ex Terminal Block; with Mounting Flange or Snap-In Mounting Foot
4 mm²; 262 Series

Technical Data	
0.5 … 4 mm²	28 … 12 AWG
550 V	300 V, 20 A
I_N 23 A	300 V, 20 A
Terminal block width: 7 mm / 0.276 inch	
9 … 10 mm / 0.35 … 0.39 inch	

Technical Data	
0.5 … 4 mm²	28 … 12 AWG
550 V	300 V, 20 A
I_N 30 A	300 V, 20 A
Terminal block width: 12 mm / 0.472 inch	
9 … 10 mm / 0.35 … 0.39 inch	

❶ Using crimped ferrules for corrosion protection, the rated cross section is reduced by one size. For conductor types and conductor preparation, see Section 14 "Electrical Equipment for Hazardous Environments."



2-conductor Ex e II terminal block; with mounting flange; for screw or similar mounting types; 3.2 mm mounting hole diameter; with mounting foot (209-123) also for DIN-35 rail

Color	Item No.	Pack. Unit
light gray	262-130	100 (50)

4-conductor Ex e II terminal block; with mounting flange; for screw or similar mounting types; 3.2 mm mounting hole diameter; with mounting foot (209-123) also for DIN-35 rail

Color	Item No.	Pack. Unit
light gray	262-230	100 (50)

2-conductor Ex e II terminal block; with snap-in mounting foot; for 0.6 … 1.2 mm plate thickness; 3.5 mm mounting hole diameter; also for aluminum rail (210-154) or with mounting foot (209-120) for DIN-35 rail

light gray	262-180	100 (50)

4-conductor Ex e II terminal block; with snap-in mounting foot; for 0.6 … 1.2 mm plate thickness; 3.5 mm mounting hole diameter; also for aluminum rail (210-154) or with mounting foot (209-120) for DIN-35 rail

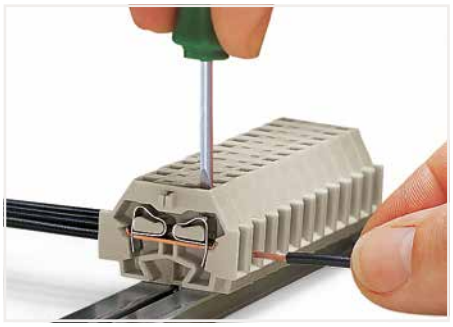
light gray	262-280	100 (50)

Space-saving 2-conductor Ex e II end terminal block; without protruding snap-in mounting foot; for terminal strips with snap-in mounting feet

light gray	262-181	100 (50)

Space-saving 4-conductor Ex e II end terminal block; without protruding snap-in mounting foot; for terminal strips with snap-in mounting feet

light gray	262-281	100 (50)



CAGE CLAMP® termination:
Inserting a conductor.

8

Accessories; 262 Series

Marking accessories, see Section 13

End plate; with mounting flange

gray	262-363	50

End plate; with snap-in mounting foot

gray	262-373	50

Comb-style jumper bar; insulated; reduces maximum conductor size to 2.5 mm²; I_N 16 A; gray

2-way	262-402	25

Operating tool; insulated; for comb-style jumper bar

2-way	209-132	1

Aluminum mounting rail; 1000 mm long; 18 mm wide; 7 mm high

	210-154	1

Plastic end stop; with WSB marker slot; for aluminum rail (210-154); 6 mm wide

	209-122	25

Mounting foot; for DIN-35 rail; snaps onto terminal blocks with snap-in mounting foot; 6.4 mm wide

gray	209-120	25

Mounting screw; for mounting foot (209-120)

	209-119	500 (50)

Mounting foot with screw; for DIN-35 rail; can be screwed on terminal blocks with mounting flange; 6.4 mm wide

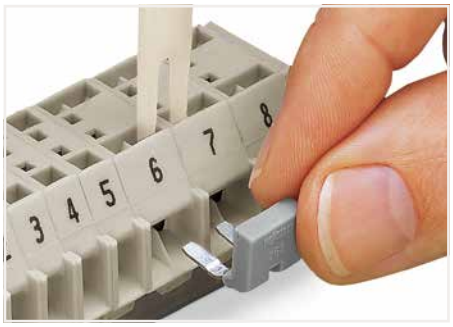
gray	209-123	25

Mounting adapter; for DIN-35 rail; can be used as end plate; 6.5 mm wide

gray	209-137	25

Operating tool with a partially insulated shaft; Type 2; (3.5 x 0.5) mm blade

	210-720	1



Commoning with comb-style jumper bar.

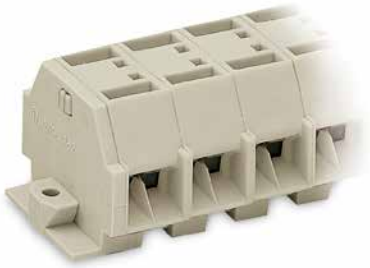
CAGE CLAMP®

Ex Terminal Strip; with Mounting Flanges or Snap-in Mounting Feet
4 mm²; 262 Series

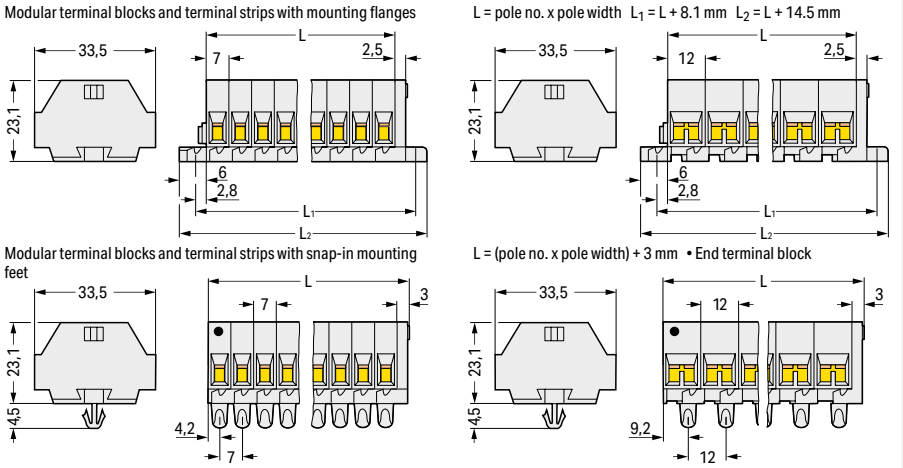
Technical Data	
0.5 … 4 mm²	28 … 12 AWG
550 V	300 V, 20 A
I_N 23 A	300 V, 20 A
Pole width: 7 mm / 0.276 inch	
9 … 10 mm / 0.35 … 0.39 inch	

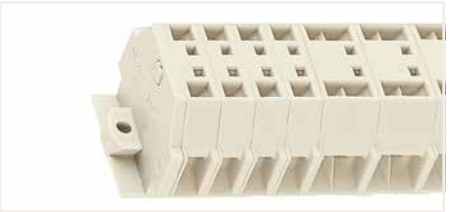
Technical Data	
0.5 … 4 mm²	28 … 12 AWG
550 V	300 V, 20 A
I_N 30 A	300 V, 20 A
Pole width: 12 mm / 0.472 inch	
9 … 10 mm / 0.35 … 0.39 inch	

❶ Using crimped ferrules for corrosion protection, the rated cross section is reduced by one size. For conductor types and conductor preparation, see Section 14 "Electrical Equipment for Hazardous Environments."



Dimensions in mm





Terminal strip; with mounting flanges; for screw or similar mounting types; 3.2 mm mounting hole diameter (with 209-123 Mounting Foot for DIN-35 rail)

Terminal strip; with snap-in mounting feet; for 0.6 … 1.2 mm plate thickness; 3.5 mm mounting hole diameter (also for 210-154 Aluminum Rail or with 209-120 Mounting Foot for DIN-35 rail)

8

2-conductor Ex e II terminal strip; with mounting flanges; for screw or similar mounting types; 3.2 mm mounting hole diameter; with mounting foot (209-123) also for DIN-35 rail; gray

Pole No.	Item No.	Pack. Unit
2	262-132	100
3	262-133	100
4	262-134	100
5	262-135	100
6	262-136	100
7	262-137	50
8	262-138	50
9	262-139	50
10	262-140	25
11	262-141	25
12 ❷	262-142	25

4-conductor Ex e II terminal strip; with mounting flanges; for screw or similar mounting types; 3.2 mm mounting hole diameter; with mounting foot (209-123) also for DIN-35 rail; gray

Pole No.	Item No.	Pack. Unit
2	262-232	100
3	262-233	100
4	262-234	100
5	262-235	100
6	262-236	50
7	262-237	50
8	262-238	50
9	262-239	50
10	262-240	25
11	262-241	25
12 ❷	262-242	25

2-conductor Ex e II terminal strip; with snap-in mounting feet; for 0.6 … 1.2 mm plate thickness; 3.5 mm mounting hole diameter; also for aluminum rail (210-154) or with mounting foot (209-120) for DIN-35 rail; gray

2	262-182	100
3	262-183	100
4	262-184	100
5	262-185	100
6	262-186	50
7	262-187	50
8	262-188	50
9	262-189	50
10	262-190	25
11	262-191	25
12 ❷	262-192	25

4-conductor Ex e II terminal strip; with snap-in mounting feet; for 0.6 … 1.2 mm plate thickness; 3.5 mm mounting hole diameter; also for aluminum rail (210-154) or with mounting foot (209-120) for DIN-35 rail; gray

2	262-282	100
3	262-283	100
4	262-284	100
5	262-285	100
6	262-286	50
7	262-287	50
8	262-288	50
9	262-289	50
10	262-290	25
11	262-291	25
12 ❷	262-292	25

Test Plug Module; for Terminal Strips without Push-Buttons
260, 261 and 262 Series

Technical Data
for 260 Series
Test voltage: 250 V / 500 V ❶
Test current: 0.5 A / 6 A ❷
Middle pressure: 2.2 N per pole

Technical Data
for 261 Series (also 264 Series)
Test voltage: 400 V / 800 V ❶
Test current: 0.5 A / 6 A ❷
Middle pressure: 2.2 N per pole

Technical Data
for 262 Series
Test voltage: 500 V / 800 V ❶
Test current: 0.5 A / 6 A ❷
Middle pressure: 2.2 N per pole

Test plug module; without locking latches; snaps together; for 2-conductor terminal blocks
Module width: 5 mm

Color	Item No.	Pack. Unit
gray	249-135	100 (25)

Test plug module; without locking latches; snaps together; for 2-conductor terminal blocks
Module width: 6 mm

Color	Item No.	Pack. Unit
gray	249-136	100 (25)

Test plug module; without locking latches; snaps together; for 2-conductor terminal blocks
Module width: 7 mm

Color	Item No.	Pack. Unit
gray	249-137	100 (25)

Test plug module; without locking latches; snaps together; for 4-conductor terminal blocks
Module width: 8 mm

gray	249-138	100 (25)

Test plug module; without locking latches; snaps together; for 4-conductor terminal blocks
Module width: 10 mm

gray	249-139	100 (25)

Test plug module; without locking latches; snaps together; for 4-conductor terminal blocks
Module width: 12 mm

gray	249-140	100 (25)

Test plug module; with locking latches; snaps together; for 2-conductor terminal blocks
Module width: 5 mm

gray	260-404	100 (25)

Test plug module; with locking latches; snaps together; for 2-conductor terminal blocks
Module width: 6 mm

gray	261-404	100 (25)

Test plug module; with locking latches; snaps together; for 4-conductor terminal blocks
Module width: 8 mm

gray	260-405	100 (25)

Test plug module; without locking latches; snaps together; for 4-conductor terminal blocks
Module width: 10 mm

gray	261-405	100 (25)

Accessories; for L-type test plug modules

Test plug; with 500 mm cable; 2 mm Ø; max. 42 V

red	210-136	50

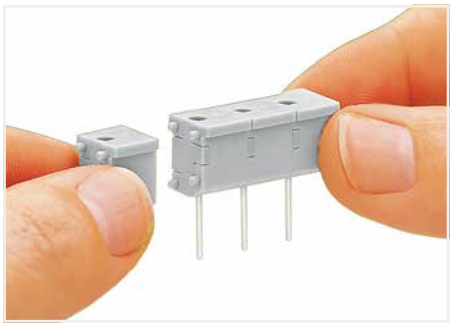
Test plug; with 500 mm cable; 2.3 mm Ø; max. 42 V

yellow	210-137	50

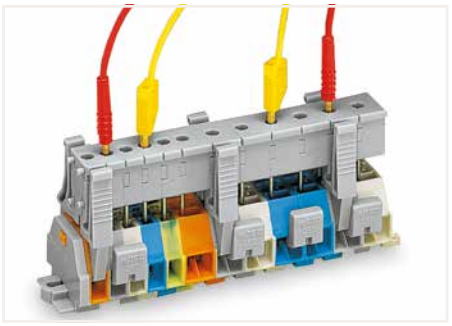
8

❶ Maximum test voltage (touch contact): 48 V (test pins are not touch-proof)

❷ Maximum test current (touch contact): 0.5 A
Maximum test current: 6 A (if the test pins are securely connected in the clamping units)



Snapping individual modules together to assemble a multi-pole test plug module.



Testing via test plug modules snapped onto a terminal strip – wired or unwired. As touch contact is made with the CAGE CLAMP® (spring steel) unit, this testing type is limited to maximum 0.5 A.

Distance between locking devices must be approximately 35 … 40 mm.

Testing after the conductors have been terminated.

WAGO Chassis-Mount Terminal Strips
WAGO Field-Wiring Terminal Blocks

PUSH-IN CAGE CLAMP® PUSH WIRE®

WAGO Chassis-Mount Terminal Strips
WAGO Field-Wiring Terminal Blocks
Side-Entry Wiring

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	4-Conductor Chassis-Mount Terminal Strips 0.5 … 4 mm² (20 … 12 AWG)	862 Series	480
	Field-Wiring Terminal Blocks 0.5 … 2.5 mm² (18 … 12 AWG)	294 Series	489

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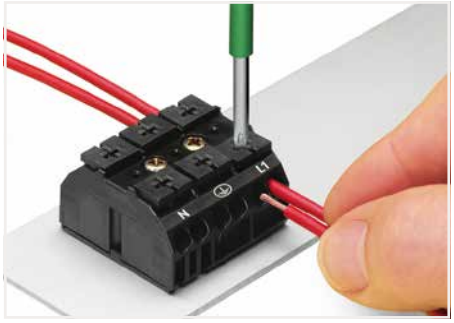
PUSH-IN CAGE CLAMP®

4-Conductor Chassis-Mount Terminal Strips
862 Series
Description and Installation



Terminating four conductors per pole – solid and fine-stranded.

Inserting a conductor via push-button.

Testing with a 2 mm Ø test plug.

Makes an automatic contact to the mounting plate. The plate's varnish is instantly penetrated.

Commoning using a comb-style jumper bar (862-482).

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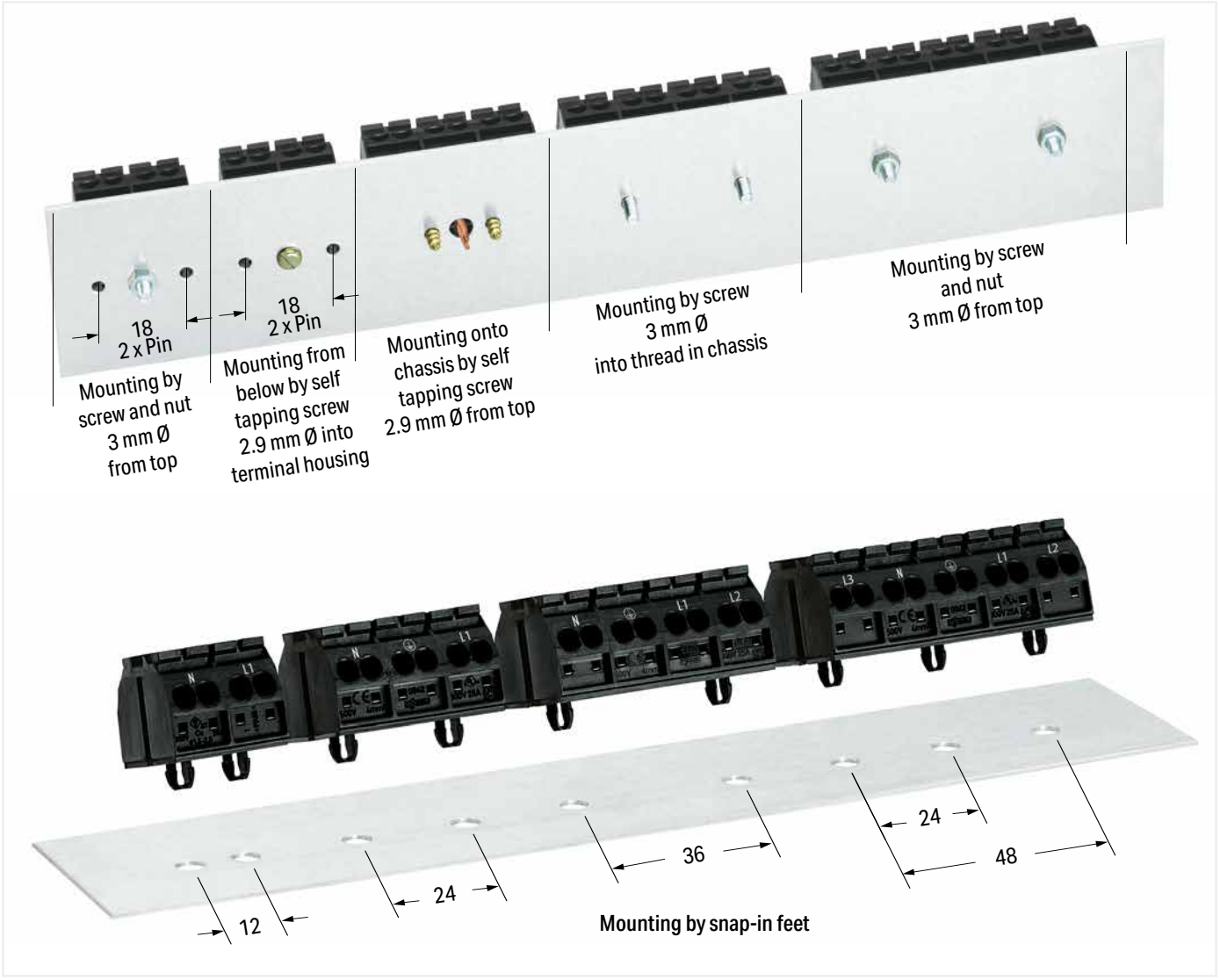
Cost-Effective Features:
WAGO's 862 Series Chassis-Mount Terminal Strips were developed specifically to minimize wiring costs, while accommodating requirements for flexible mounting, multiple connection points and easy usage:

- Equipped with Push-in CAGE CLAMP®, the 862 Series connects up to four conductors sized 0.5 to 4 mm² (20 … 12 AWG). Due to multiple connection points per pole, different conductor sizes can be used within the same terminal block position.
- For factory wiring, Push-in CAGE CLAMP® connection technology allows solid conductors, ultrasonically bonded conductors from 0.5 … 4 mm² (20 … 12 AWG; length of bonded conductor end: min. 10 mm) or fine-stranded conductors with ferrules from 1 to 2.5 mm² (18 … 14 AWG) to be terminated by simply pushing them into the unit.
- Convenient automatic grounding contact (optional)
- Snap-in mounting feet for fast assembly
- Push-buttons for easy installation with an operating tool or by hand
- Built-in test points simplify testing with 2 mm Ø test plug
- Flexible marking options with standard marking (pre-marked), marking strip or custom marked for large orders

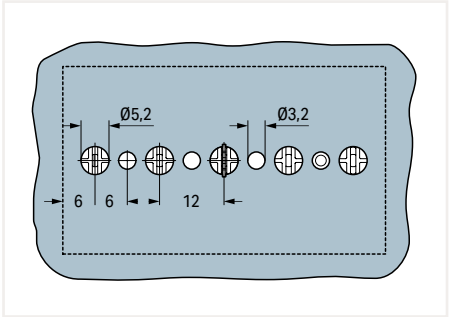
Push-in CAGE CLAMP® terminates the following copper conductors:					
solid	stranded	fine-stranded, also with tinned single strands	fine-stranded, tip-bonded	fine-stranded, with ferrule (gastight crimped)	fine-stranded, with pin terminal (gastight crimped)

For aluminum conductors, see notes in Section 14. With ferruled conductors, it is necessary to use a terminal block one size smaller than the conductor's nominal cross section.

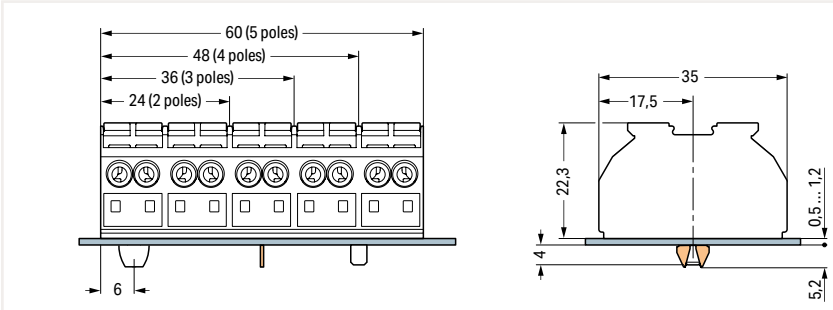
Mounting Types



Dimensions in mm



Dimensions (in mm) for ground contact and snap-in mounting foot (5.2 mm Ø)



Dimensions (in mm) for chassis-mount terminal strips

4-Conductor Chassis-Mount Terminal Strip; 2-Pole
4 mm²; 862 Series

Technical Data	
0.5 … 4 mm² ❶	20 … 12 AWG
500 V/6 kV/3 ❷	300 V, 20 A
I_N 32 A	300 V, 20 A
10 … 11 mm / 0.39 … 0.43 inch	

4-conductor chassis-mount terminal strip; for mounting via screw and nut (3 mm Ø) or for self-tapping screw (2.9 mm Ø) from top; with 2 x pin; black

	Item No.	Pack. Unit
● N-L1	862-2552	500
● L1-N	862-1552	500
● L1-N Ex	862-1552/999-950 ❸	500
● plain	862-552	500

4-conductor chassis-mount terminal strip; for self-tapping screw (2.9 mm Ø) from below; with 2 x pin; black

● N-L1	862-2562	500
● L1-N	862-1562	500
● L1-N Ex	862-1562/999-950 ❸	500
● plain	862-562	500

4-conductor chassis-mount terminal strip; 1 snap-in foot per pole; black

● N-L1	862-2532	500
● L1-N	862-1532	500
● L1-N Ex	862-1532/999-950 ❸	500
● plain	862-532	500

Technical Data	
0.5 … 4 mm² ❶	20 … 12 AWG
500 V/6 kV/3 ❷	300 V, 20 A
I_N 32 A	300 V, 20 A
10 … 11 mm / 0.39 … 0.43 inch	

4-conductor chassis-mount terminal strip; for mounting via screw and nut (3 mm Ø) or for self-tapping screw (2.9 mm Ø) from top; with 2 x pin; white

	Item No.	Pack. Unit
○ N-L1	862-2652	500
○ L1-N	862-1652	500
○ L1-N Ex	862-1652/999-950 ❸	500
○ plain	862-652	500

4-conductor chassis-mount terminal strip; for self-tapping screw (2.9 mm Ø) from below; with 2 x pin; white

○ N-L1	862-2662	500
○ L1-N	862-1662	500
○ L1-N Ex	862-1662/999-950 ❸	500
○ plain	862-662	500

4-conductor chassis-mount terminal strip; 1 snap-in foot per pole; white

○ N-L1	862-2632	500
○ L1-N	862-1632	500
○ L1-N Ex	862-1632/999-950 ❸	500
○ plain	862-632	500

❶ Conductor range: 0.5 … 4 mm² "s+f-st";
Push-in termination: 1 … 4 mm² "s" and 1 … 2.5 mm² "insulated ferrules, 12 mm"
Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 500 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

❸ Terminal blocks with an Ex mark are suitable for Ex e II applications.
440 V; 28 A
(see Section 14)

Approvals and corresponding ratings, visit www.wago.com

Accessories; 862 Series

Appropriate marking system:
Marking strips

Comb-style jumper bar; for conductor entry; insulated; terminated conductor entry; I_N 32 A

black 862-482 5

Test plug; with 500 mm cable; 2 mm Ø; max. 42 V

red 210-136 50

Test plug; with 500 mm cable; 2 mm Ø; max. 42 V

yellow 210-137 50

Marking strip; on reel; 7.5 mm wide; not stretchable; plain; snap-on type

white 709-178 1

Operating tool with a partially insulated shaft; Type 2; (3.5 x 0.5) mm blade

210-720 1

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PUSH-IN CAGE CLAMP®

4-Conductor Chassis-Mount Terminal Strip; 3-Pole
4 mm²; 862 Series

Technical Data	
0.5 … 4 mm² ❶	20 … 12 AWG
500 V/6 kV/3 ❷	300 V, 20 A
I_N 32 A	300 V, 20 A
10 … 11 mm / 0.39 … 0.43 inch	

Technical Data	
0.5 … 4 mm² ❶	20 … 12 AWG
500 V/6 kV/3 ❷	300 V, 20 A
I_N 32 A	300 V, 20 A
10 … 11 mm / 0.39 … 0.43 inch	

❶ Conductor range: 0.5 … 4 mm² "s+f-st";
Push-in termination: 1 … 4 mm² "s" and 1 … 2.5 mm² "insulated ferrules, 12 mm"
Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 500 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

❸ Terminal blocks with an Ex mark are suitable for Ex e II applications.
440 V; 28 A
(see Section 14)

Approvals and corresponding ratings, visit www.wago.com

4-conductor chassis-mount terminal strip; for mounting via screw and nut (3 mm Ø) or for self-tapping screw (2.9 mm Ø) from top; black

	Item No.	Pack. Unit
● N-GND-L1; without ground contact	862-2503	250
● GND-N-L1; without ground contact	862-1503	250
● GND-N-L1; without ground contact ❸	862-1503/999-950	250
● plain; without ground contact	862-503	250
● N-GND-L1; with ground contact	862-8503	250
● GND-L1-N; with ground contact	862-9503	250

4-conductor chassis-mount terminal strip; for mounting via screw and nut (3 mm Ø) or for self-tapping screw (2.9 mm Ø) from top; white

	Item No.	Pack. Unit
○ N-GND-L1; without ground contact	862-2603	250
○ GND-N-L1; without ground contact	862-1603	250
○ GND-N-L1; without ground contact ❸	862-1603/999-950	250
○ plain; without ground contact	862-603	250
○ N-GND-L1; with ground contact	862-8603	250
○ GND-L1-N; with ground contact	862-9603	250

4-conductor chassis-mount terminal strip; 1 snap-in foot per pole; black

● N-GND-L1; without ground contact	862-2533	250
● GND-N-L1; without ground contact	862-1533	250
● GND-N-L1; without ground contact ❸	862-1533/999-950	250
● plain; without ground contact	862-533	250
● N-GND-L1; with ground contact	862-8533	250
● GND-L1-N; with ground contact	862-9533	250

4-conductor chassis-mount terminal strip; 1 snap-in foot per pole; white

○ N-GND-L1; without ground contact	862-2633	250
○ GND-N-L1; without ground contact	862-1633	250
○ GND-N-L1; without ground contact ❸	862-1633/999-950	250
○ plain; without ground contact	862-633	250
○ N-GND-L1; with ground contact	862-8633	250
○ GND-L1-N; with ground contact	862-9633	250

4-conductor chassis-mount terminal strip; Snap-in foot at pos. 1+3; black

● N-GND-L1; without ground contact	862-2593	250
● GND-N-L1; without ground contact	862-1593	250
● GND-N-L1; without ground contact ❸	862-1593/999-950	250
● plain; without ground contact	862-593	250
● N-GND-L1; with ground contact	862-8593	250
● GND-N-L1; with ground contact	862-9593	250

4-conductor chassis-mount terminal strip; Snap-in foot at pos. 1+3; white

○ N-GND-L1; without ground contact	862-2693	250
○ GND-N-L1; without ground contact	862-1693	250
○ GND-N-L1; without ground contact ❸	862-1693/999-950	250
○ plain; without ground contact	862-693	250
○ N-GND-L1; with ground contact	862-8693	250
○ GND-N-L1; with ground contact	862-9693	250

Accessories; 862 Series

Appropriate marking system:
Marking strips

Comb-style jumper bar; for conductor entry; insulated; terminated conductor entry; I_N 32 A

black 862-482 5

Test plug; with 500 mm cable; 2 mm Ø; max. 42 V

red 210-136 50

Test plug; with 500 mm cable; 2 mm Ø; max. 42 V

yellow 210-137 50

Marking strip; on reel; 7.5 mm wide; not stretchable; plain; snap-on type

white 709-178 1

Operating tool with a partially insulated shaft; Type 2; (3.5 x 0.5) mm blade

210-720 1

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4-Conductor Chassis-Mount Terminal Strip; 4-Pole
4 mm²; 862 Series

Technical Data	
0.5 … 4 mm² ❶	20 … 12 AWG
500 V/6 kV/3 ❷	300 V, 20 A
I_N 32 A	300 V, 20 A
10 … 11 mm / 0.39 … 0.43 inch	

Technical Data	
0.5 … 4 mm² ❶	20 … 12 AWG
500 V/6 kV/3 ❷	300 V, 20 A
I_N 32 A	300 V, 20 A
10 … 11 mm / 0.39 … 0.43 inch	

❶ Conductor range: 0.5 … 4 mm² "s+f-st";
Push-in termination: 1 … 4 mm² "s" and 1 … 2.5 mm² "insulated ferrules, 12 mm"
Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 500 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

❸ Terminal blocks with an Ex mark are suitable for Ex e II applications.
440 V; 28 A
(see Section 14)

Approvals and corresponding ratings, visit www.wago.com

4-conductor chassis-mount terminal strip; for mounting via screw and nut (3 mm Ø) or for self-tapping screw (2.9 mm Ø) from top; black

	Item No.	Pack. Unit
● N-GND-L1-L2; without ground contact	862-2504	200
● GND-N-L1-L2; without ground contact	862-1504	200
● GND-N-L1-L2; without ground contact	862-1504/999-950 ❸	200
● plain; without ground contact	862-504	200
● N-GND-L1-L2; with ground contact	862-8504	200
● GND-N-L1-L2; with ground contact	862-9504	200

4-conductor chassis-mount terminal strip; for mounting via screw and nut (3 mm Ø) or for self-tapping screw (2.9 mm Ø) from top; white

	Item No.	Pack. Unit
○ N-GND-L1-L2; without ground contact	862-2604	200
○ GND-N-L1-L2; without ground contact	862-1604	200
○ GND-N-L1-L2; without ground contact	862-1604/999-950 ❸	200
○ plain; without ground contact	862-604	200
○ N-GND-L1-L2; with ground contact	862-8604	200
○ GND-N-L1-L2; with ground contact	862-9604	200

4-conductor chassis-mount terminal strip; 1 snap-in foot per pole; black

● N-GND-L1-L2; without ground contact	862-2534	200
● GND-N-L1-L2; without ground contact	862-1534	200
● GND-N-L1-L2; without ground contact	862-1534/999-950 ❸	200
● plain; without ground contact	862-534	200
● N-GND-L1-L2; with ground contact	862-8534	200
● GND-N-L1-L2; with ground contact	862-9534	200

4-conductor chassis-mount terminal strip; 1 snap-in foot per pole; white

○ N-GND-L1-L2; without ground contact	862-2634	200
○ GND-N-L1-L2; without ground contact	862-1634	200
○ GND-N-L1-L2; without ground contact	862-1634/999-950 ❸	200
○ plain; without ground contact	862-634	200
○ N-GND-L1-L2; with ground contact	862-8634	200
○ GND-N-L1-L2; with ground contact	862-9634	200

4-conductor chassis-mount terminal strip; Snap-in foot at pos. 1+4; black

● N-GND-L1-L2; without ground contact	862-2594	200
● GND-N-L1-L2; without ground contact	862-1594	200
● GND-N-L1-L2; without ground contact	862-1594/999-950 ❸	200
● plain; without ground contact	862-594	200
● N-GND-L1-L2; with ground contact	862-8594	200
● GND-N-L1-L2; with ground contact	862-9594	200

4-conductor chassis-mount terminal strip; Snap-in foot at pos. 1+4; white

○ N-GND-L1-L2; without ground contact	862-2694	200
○ GND-N-L1-L2; without ground contact	862-1694	200
○ GND-N-L1-L2; without ground contact	862-1694/999-950 ❸	200
○ plain; without ground contact	862-694	200
○ N-GND-L1-L2; with ground contact	862-8694	200
○ GND-N-L1-L2; with ground contact	862-9694	200

Accessories; 862 Series

Appropriate marking system:
Marking strips

Comb-style jumper bar; for conductor entry; insulated; terminated conductor entry; I_N 32 A

black 862-482 5

Test plug; with 500 mm cable; 2 mm Ø; max. 42 V

red 210-136 50

Test plug; with 500 mm cable; 2 mm Ø; max. 42 V

yellow 210-137 50

Marking strip; on reel; 7.5 mm wide; not stretchable; plain; snap-on type

white 709-178 1

Operating tool with a partially insulated shaft; Type 2; (3.5 x 0.5) mm blade

210-720 1

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4-Conductor Chassis-Mount Terminal Strip; 5-Pole
4 mm²; 862 Series

Technical Data	
0.5 … 4 mm² ❶	20 … 12 AWG
500 V/6 kV/3 ❷	300 V, 20 A
I_N 32 A	300 V, 20 A
10 … 11 mm / 0.39 … 0.43 inch	

Technical Data	
0.5 … 4 mm² ❶	20 … 12 AWG
500 V/6 kV/3 ❷	300 V, 20 A
I_N 32 A	300 V, 20 A
10 … 11 mm / 0.39 … 0.43 inch	

❶ Conductor range: 0.5 … 4 mm² "s+f-st";
Push-in termination: 1 … 4 mm² "s" and 1 … 2.5 mm² "insulated ferrules, 12 mm"
Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ 500 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

❸ Terminal blocks with an Ex mark are suitable for Ex e II applications.
440 V; 28 A
(see Section 14)

Approvals and corresponding ratings, visit www.wago.com

4-conductor chassis-mount terminal strip; for mounting via screw and nut (3 mm Ø) or for self-tapping screw (2.9 mm Ø) from top; black

	Item No.	Pack. Unit
● L3-N-GND-L1-L2; without ground contact	862-2505	200
● GND-N-L1-L2-L3; without ground contact	862-1505	200
● GND-N-L1-L2-L3; without ground contact	862-1505/999-950 ❸	200
● plain; without ground contact	862-505	200
● L3-N-GND-L1-L2; with ground contact	862-8505	200
● GND-N-L1-L2-L3; with ground contact	862-9505	200

4-conductor chassis-mount terminal strip; for mounting via screw and nut (3 mm Ø) or for self-tapping screw (2.9 mm Ø) from top; white

	Item No.	Pack. Unit
○ L3-N-GND-L1-L2; without ground contact	862-2605	200
○ GND-N-L1-L2-L3; without ground contact	862-1605	200
○ GND-N-L1-L2-L3; without ground contact	862-1605/999-950 ❸	200
○ plain; without ground contact	862-605	200
○ L3-N-GND-L1-L2; with ground contact	862-8605	200
○ GND-N-L1-L2-L3; with ground contact	862-9605	200

4-conductor chassis-mount terminal strip; 1 snap-in foot per pole; black

● L3-N-GND-L1-L2; without ground contact	862-2525	200
● GND-N-L1-L2-L3; without ground contact	862-1525	200
● GND-N-L1-L2-L3; without ground contact	862-1525/999-950 ❸	200
● plain; without ground contact	862-525	200
● L3-N-GND-L1-L2; with ground contact	862-8525	200
● GND-N-L1-L2-L3; with ground contact	862-9525	200

4-conductor chassis-mount terminal strip; 1 snap-in foot per pole; white

○ L3-N-GND-L1-L2; without ground contact	862-2625	200
○ GND-N-L1-L2-L3; without ground contact	862-1625	200
○ GND-N-L1-L2-L3; without ground contact	862-1625/999-950 ❸	200
○ plain; without ground contact	862-625	200
○ L3-N-GND-L1-L2; with ground contact	862-8625	200
○ GND-N-L1-L2-L3; with ground contact	862-9625	200

4-conductor chassis-mount terminal strip; Snap-in foot at pos. 1+3; black

● L3-N-GND-L1-L2; without ground contact	862-2515	200
● GND-N-L1-L2-L3; without ground contact	862-1515	200
● GND-N-L1-L2-L3; without ground contact	862-1515/999-950 ❸	200
● plain; without ground contact	862-515	200
● L3-N-GND-L1-L2; with ground contact	862-8515	200
● GND-N-L1-L2-L3; with ground contact	862-9515	200

4-conductor chassis-mount terminal strip; Snap-in foot at pos. 1+3; white

○ L3-N-GND-L1-L2; without ground contact	862-2615	200
○ GND-N-L1-L2-L3; without ground contact	862-1615	200
○ GND-N-L1-L2-L3; without ground contact	862-1615/999-950 ❸	200
○ plain; without ground contact	862-615	200
○ L3-N-GND-L1-L2; with ground contact	862-8615	200
○ GND-N-L1-L2-L3; with ground contact	862-9615	200

Accessories; 862 Series

Appropriate marking system:
Marking strips

Comb-style jumper bar; for conductor entry; insulated; terminated conductor entry; I_N 32 A

black — 862-482 — 5

Test plug; with 500 mm cable; 2 mm Ø; max. 42 V

red — 210-136 — 50

Test plug; with 500 mm cable; 2 mm Ø; max. 42 V

yellow — 210-137 — 50

Marking strip; on reel; 7.5 mm wide; not stretchable; plain; snap-on type

white — 709-178 — 1

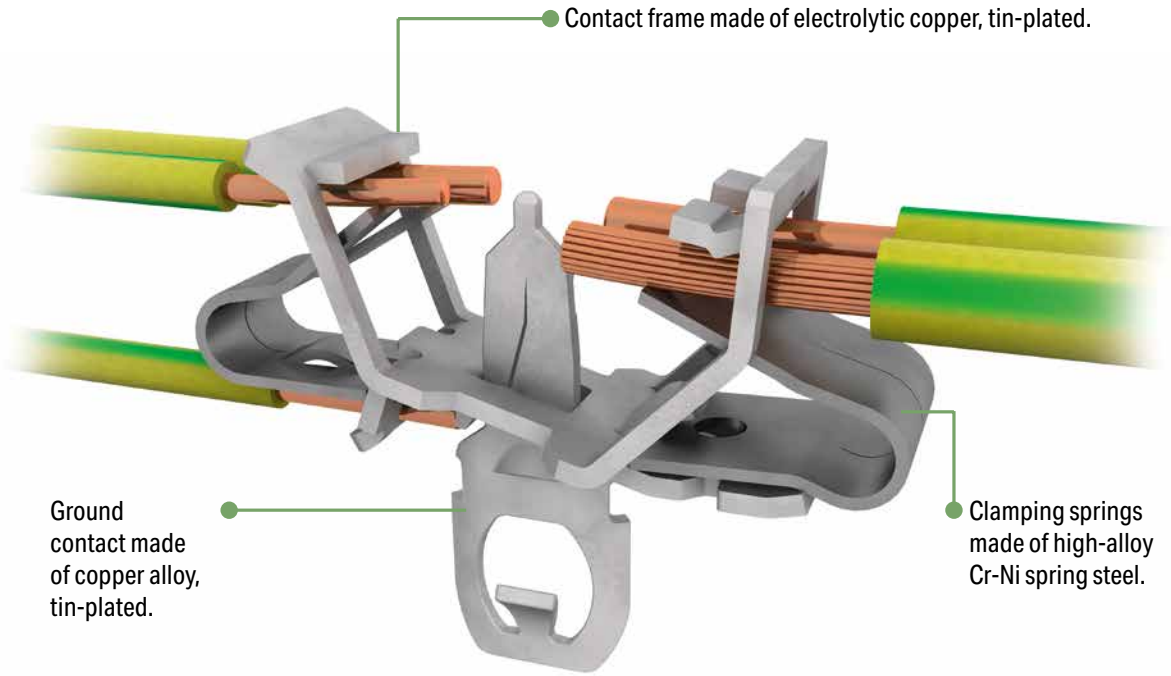
Operating tool with a partially insulated shaft; Type 2; (3.5 x 0.5) mm blade

210-720 — 1

9

Connect Lighting and Equipment Worldwide
Contact Technology
294 Series

Contact Technology

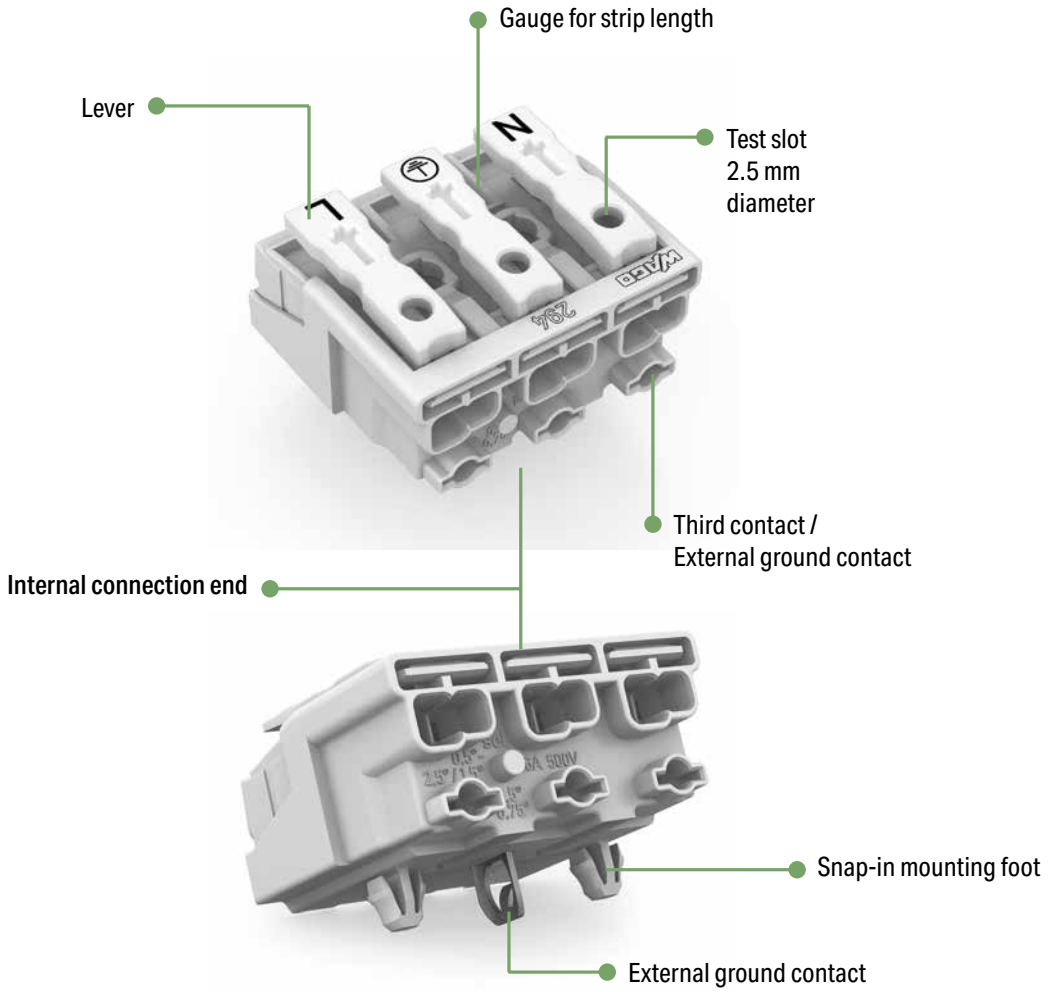


EUROPE
1 x 0.5 … 2.5 mm² “s”
1 x 0.5 … 1.5 mm² “s”
1 x 0.5 … 0.75 mm² “s”
AMERICA
1 x AWG 18 … 14 “s”
1 x AWG 18 … 16 “s”
1 x AWG 18 “s”
JAPAN
1 x 0.8 … 1.6 mm diam. “s”
1 x 0.8 … 1 mm diam. “s”
1 x 0.8 mm diam. “s”

Internal connection:
PUSH WIRE® for internal wiring with solid conductors

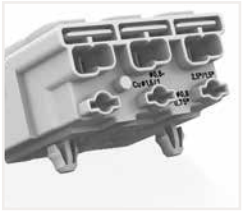
EUROPE
2 x 0.5 … 2.5 mm² “s, str, f-str”
AMERICA
2 x AWG 18 … 12 “s”
2 x AWG 18 … 14 “s, f-str”
JAPAN
2 x 0.8 … 2 mm diam. “s”
2 x 0.5 … 2 mm² “str, f-str”

External connection:
Push-in CAGE CLAMP® for field-wiring with all conductor types


Gauge for strip length
Lever
Test slot
2.5 mm
diameter
Third contact /
External ground contact
Internal connection end
Snap-in mounting foot
External ground contact

PUSH-IN CAGE CLAMP® PUSH WIRE®

Field-Wiring Terminal Block; with Two Snap-In Mounting Feet – Overview
294 Series



Without Ground Contact	With Direct Ground Contact	With Screw-Type Ground Contact	With Snap-In Ground Contact	With Angled Snap-In Ground Contact

Pole No.	Marking	Item No.	Item No.	Item No.	Item No.	Item No.
2	plain	294-5002				
	N-L	294-5012				
	N´-L´	294-5022				
	DA- DA+	294-5032				
	- +	294-5072				
	1-N	294-5052				
	2-1	294-5042				
3	plain	294-5003				
	N-GND-L	294-5013	294-5113	294-5413	294-5213	294-5313
	N´-GND-L´	294-5023	294-5123	294-5423	294-5223	294-5323
	1-GND-N	294-5053	294-5153	294-5453	294-5253	294-5353
	3-2-1	294-5043				
4	plain	294-5004				
	1/L´-2/L-GND-N	294-5024	294-5124	294-5424	294-5224	294-5324
	1-2-GND-N	294-5014	294-5124	294-5424	294-5224	294-5324
	4-3-2-1	294-5044				
	1/L´-2/L E-N	294-5094/4025-000				
5	plain	294-5005				
	L3-L2-L1-GND_N	294-5015		294-5415	294-5215	294-5315
	L´-N`-L-GND-N	294-5025		294-5425	294-5225	294-5325
	DA+ DA- L GND N	294-5035		294-5435	294-5235	294-5335
	DA- N GND L DA+	294-5075	294-5175	294-5475	294-5275	294-5375
	3-N-GND-1-2	294-5055	294-5155	294-5455	294-5255	294-5355
	5-4-3-2-1	294-5045				
	DA+ DA- L E N	294-5095/5025-000				
	L3-L2-L1-E-N	294-5095/5026-000				
	L´-N`-L-E-N	294-5095/5027-000				

9

Field-Wiring Terminal Block; without Snap-In Mounting Feet – Overview
294 Series

Without Ground Contact	With Direct Ground Contact	With Screw-Type Ground Contact	With Snap-In Ground Contact	With Angled Snap-In Ground Contact

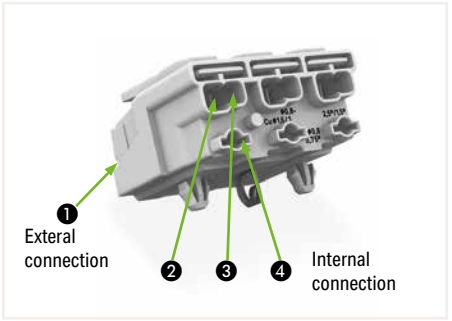
Pole No.	Marking	Item No.	Item No.	Item No.	Item No.	Item No.
2	plain	294-4002				
	N-L	294-4012				
	N´-L´	294-4022				
	DA- DA+	294-4032				
	- +	294-4072				
	1-N	294-4052				
	2-1	294-4042				
3	plain	294-4003				
	N-GND-L	294-4013		294-4413	294-4213	294-4313
	N´-GND-L´	294-4023		294-4423	294-4223	294-4323
	1-GND-N	294-4053		294-4453	294-4253	294-4353
	3-2-1	294-4043				
4	plain	294-4004				
	1/L´-2/L-GND-N	294-4024		294-4424	294-4224	294-4324
	1-2-GND-N	294-4014		294-4424	294-4224	294-4324
	4-3-2-1	294-4044				
	1/L´-2/L E-N	294-4094/4025-000				
5	plain	294-4005				
	L3-L2-L1-GND_N	294-4015		294-4415	294-4215	294-4315
	L´-N`-L-GND-N	294-4025		294-4425	294-4225	294-4325
	DA+ DA- L GND N	294-4035		294-4435	294-4235	294-4335
	DA- N GND L DA+	294-4075		294-4475	294-4275	294-4375
	3-N-GND-1-2	294-4055		294-4455	294-4255	294-4355
	5-4-3-2-1	294-4045				
	DA+ DA- L E N	294-4095/5025-000				
	L3-L2-L1-E-N	294-4095/5026-000				
	L´-N`-L-E-N	294-4095/5027-000				
6	plain	294-4006				
7	plain	294-4007				

9

Field-Wiring Terminal Block
2.5 mm; 294 Series

Terminating five conductors per pole – solid and fine-stranded.

- External connection of solid, stranded and fine-stranded conductors
- Universal conductor termination (AWG, metric)
- Third contact located at the bottom of internal connection end
- Strain relief plate can be retrofitted



Technical Data		
Ratings per	IEC/EN 60998-1	IEC/EN 60998-2-2
Overvoltage category	II	II
Pollution degree	2	2
Rated voltage	500 V	500 V
Rated surge voltage	4 kV	4 kV
Rated current	24 A	24 A
Temperature specification	T 85	

Conductor Data (External Connection)	
Connection technology ❶	Push-in CAGE CLAMP®
Solid conductor	0.5 … 2.5 mm / 18 … 12 AWG
Stranded conductor	0.5 … 2.5 mm / 18 … 16 AWG
Fine-stranded conductor	0.5 … 2.5 mm / 18 … 16 AWG
Solid conductor, push-in termination	0.5 … 2.5 mm / 18 … 12 AWG
Fine-stranded conductor with ferrule, push-in termination	0.5 mm² / 18 AWG
Fine-stranded conductor with ferrule with plastic collar	0.5 … 1.5 mm / 18 … 16 AWG
Fine-stranded conductor with ferrule without plastic collar	0.5 … 1.5 mm / 18 … 16 AWG

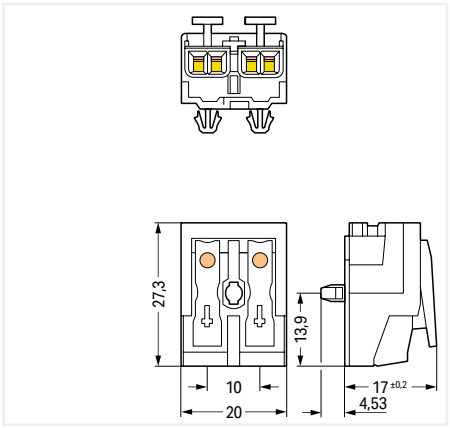
Conductor Data (Internal Connection)	
Connection technology	PUSH WIRE®
Conductor termination ❷	
Solid conductor	0.5 … 2.5 mm / 18 … 14 AWG
Fine-stranded conductor with ferrule without plastic collar	0.5 … 1.5 mm / 18 … 14 AWG
Fine-stranded conductor with ferrule with plastic collar	0.5 … 1.5 mm / 18 … 14 AWG
Conductor termination ❸	
Solid conductor	0.5 … 1.5 mm / 18 … 16 AWG
Fine-stranded conductor with ferrule without plastic collar	0.5 … 1 mm / 18 … 14 AWG
Fine-stranded conductor with ferrule with plastic collar	0.5 … 0.75 mm / 18 AWG
Conductor termination ❹	
Solid conductor	0.5 … 0.75 mm / 18 AWG
Strip length	8 … 9 mm / 0.31 … 0.35 inch

Material Data	
Material group	IIIa
Insulation material	Polycarbonate (PC)
Temperature stability	Relative Temperature Index (RTI) of 120 °C
Flammability class per UL 94	V0
Clamping spring material	Chrome nickel spring steel (CrNi)
Contact material	Electrolytic copper (E_{Cu})
Contact plating	Tin-plated
16 mm-high versions are available upon request.	

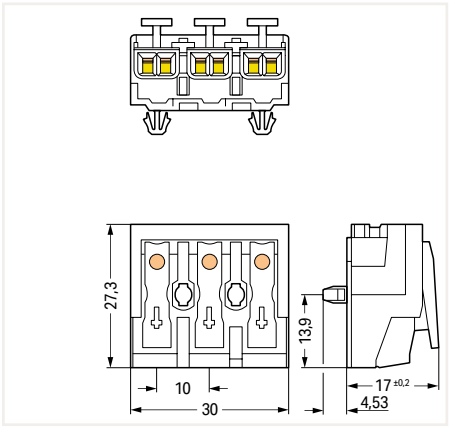
PUSH-IN CAGE CLAMP® PUSH WIRE®

Field-Wiring Terminal Block
2.5 mm; 294 Series

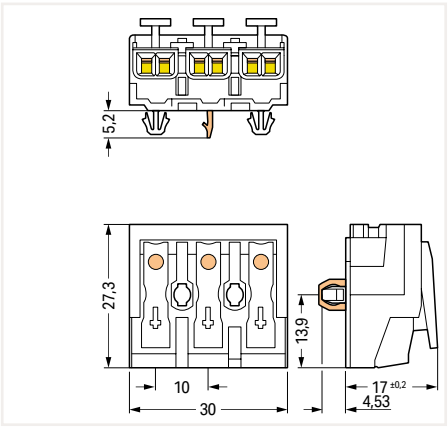
Dimensions in mm



Dimensions in mm



Dimensions in mm



Field-wiring terminal block; without ground contact; with snap-in mounting feet; 2-pole; white

Marking	Item No.	Pack. Unit
○ N-L	294-5012	1000
○ N´-L´	294-5022	1000
○ DA- DA+	294-5032	1000
○ - +	294-5072	1000
○ 2-1	294-5042	1000
○ 1-N	294-5052	1000
○ plain	294-5002	1000

Field-wiring terminal block; without ground contact; with snap-in mounting feet; 3-pole; white

Marking	Item No.	Pack. Unit
○ N-GND-L	294-5013	500
○ N´-GND-L´	294-5023	500
○ 1-GND-N	294-5053	500
○ 3-2-1	294-5043	500
○ plain	294-5003	500

Field-wiring terminal block; with direct ground contact; with snap-in mounting feet; 3-pole; white

Marking	Item No.	Pack. Unit
○ N-GND-L	294-5113	500
○ N´-GND-L´	294-5123	500
○ 1-GND-N	294-5153	500

Field-wiring terminal block; without ground contact; without snap-in mounting feet; 2-pole; white

○ N-L	294-4012	1000
○ N´-L´	294-4022	1000
○ DA- DA+	294-4032	1000
○ - +	294-4072	1000
○ 2-1	294-4042	1000
○ 1-N	294-4052	1000
○ plain	294-4002	1000

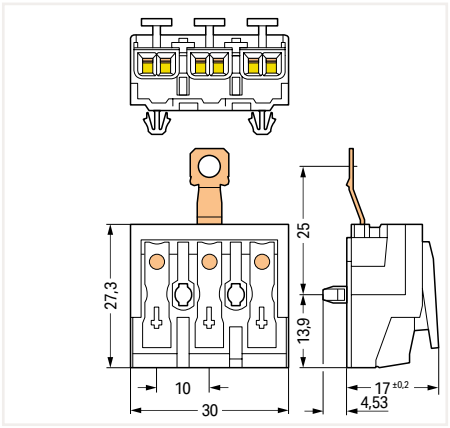
Field-wiring terminal block; without ground contact; without snap-in mounting feet; 3-pole; white

○ N-GND-L	294-4013	500
○ N´-GND-L´	294-4023	500
○ 1-GND-N	294-4053	500
○ 3-2-1	294-4043	500
○ plain	294-4003	500
○ N-E-L	294-4093/3025-000	500

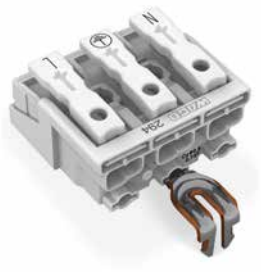
9

Field-Wiring Terminal Block
2.5 mm; 294 Series

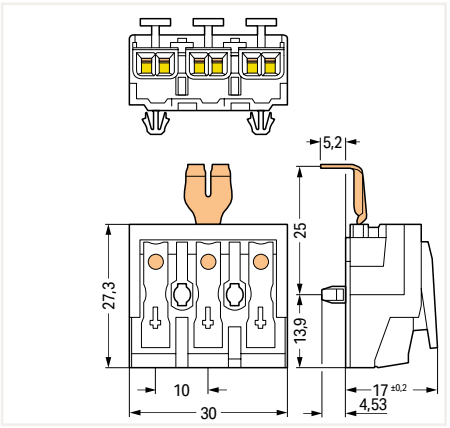
Dimensions in mm



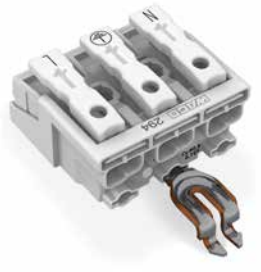
Field-wiring terminal block; with screw-type ground contact; with snap-in mounting feet; 3-pole; white		
Marking	Item No.	Pack. Unit
○ N-GND-L	294-5413	500
○ N´-GND-L´	294-5423	500
○ 1-GND-N	294-5453	500



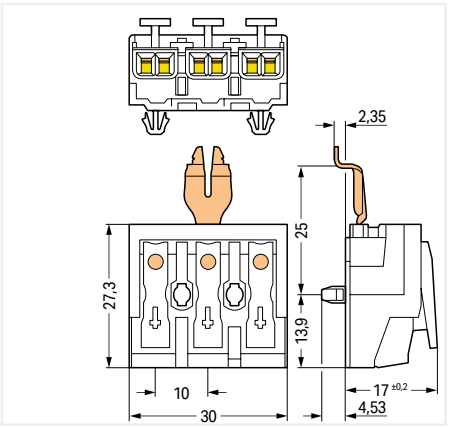
Dimensions in mm



Field-wiring terminal block; with ground contact; with snap-in mounting feet; 3-pole; white		
Marking	Item No.	Pack. Unit
○ N-GND-L	294-5213	500
○ N´-GND-L´	294-5223	500
○ 1-GND-N	294-5253	500



Dimensions in mm



Field-wiring terminal block; with angled ground contact; with snap-in mounting feet; 3-pole; white		
Marking	Item No.	Pack. Unit
○ N-GND-L	294-5313	500
○ N´-GND-L´	294-5323	500
○ 1-GND-N	294-5353	500

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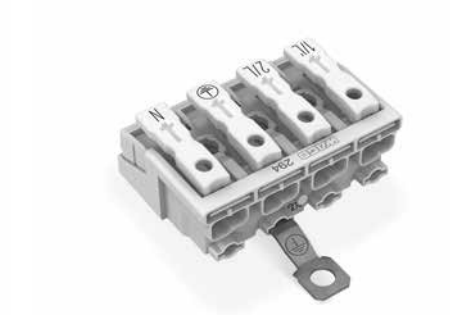
Field-wiring terminal block; with screw-type ground contact; without snap-in mounting feet; 3-pole; white		
○ N-GND-L	294-4413	500
○ N´-GND-L´	294-4423	500
○ 1-GND-N	294-4453	500

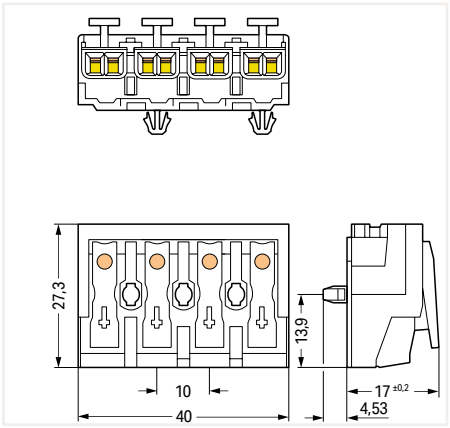
Field-wiring terminal block; with snap-in ground contact; without snap-in mounting feet; 3-pole; white		
○ N-GND-L	294-4213	500
○ N´-GND-L´	294-4223	500
○ 1-GND-N	294-4253	500

Field-wiring terminal block; with angled snap-in ground contact; without snap-in mounting feet; 3-pole; white		
○ N-GND-L	294-4313	500
○ N´-GND-L´	294-4323	500
○ 1-GND-N	294-4353	500

PUSH-IN CAGE CLAMP® PUSH WIRE®



Dimensions in mm



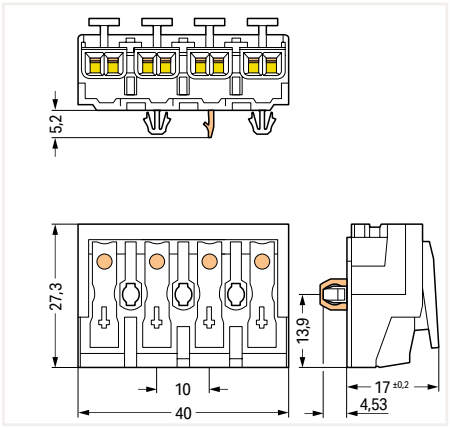
Field-wiring terminal block; without ground contact; with snap-in mounting feet; 4-pole; white

Marking	Item No.	Pack. Unit
○ 1/L´-2/L-GND-N	294-5024	500
○ 1-2-GND-N	294-5014	500
○ 4-3-2-1	294-5044	500
○ plain	294-5004	500
○ 1/L´-2/L-E-N	294-5094/4025-000	500

Field-wiring terminal block; without ground contact; without snap-in mounting feet; 4-pole; white

Marking	Item No.	Pack. Unit
○ 1/L´-2/L-GND-N	294-4024	500
○ 1-2-GND-N	294-4014	500
○ 4-3-2-1	294-4044	500
○ plain	294-4004	500
○ 1/L´-2/L-E-N	294-4094/4025-000	500

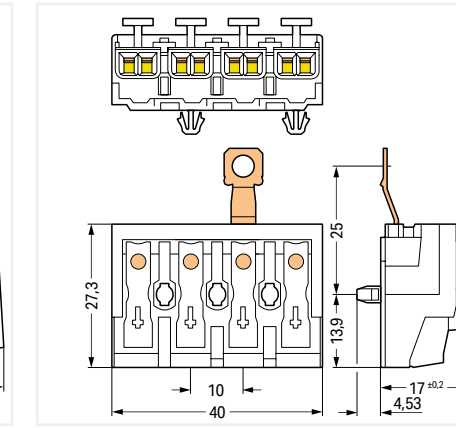
Dimensions in mm



Field-wiring terminal block; with direct ground contact; with snap-in mounting feet; 4-pole; white

Marking	Item No.	Pack. Unit
○ 1/L´-2/L-GND-N	294-5124	500
○ 1-2-GND-N	294-5114	500

Dimensions in mm



Field-wiring terminal block; with screw-type ground contact; with snap-in mounting feet; 4-pole; white

Marking	Item No.	Pack. Unit
○ 1/L´-2/L-GND-N	294-5424	500
○ 1-2-GND-N	294-5414	500

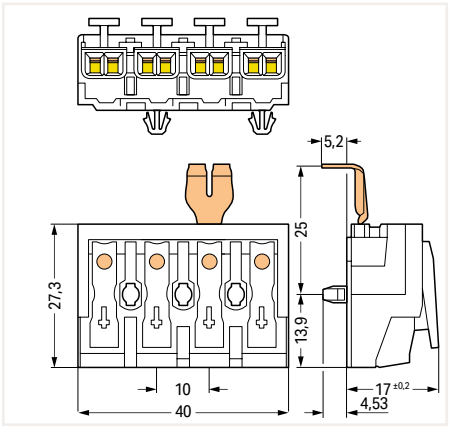
Field-wiring terminal block; with screw-type ground contact; without snap-in mounting feet; 4-pole; white

Marking	Item No.	Pack. Unit
○ 1/L´-2/L-GND-N	294-4424	500
○ 1-2-GND-N	294-4414	500

9

Field-Wiring Terminal Block
2.5 mm; 294 Series

Dimensions in mm

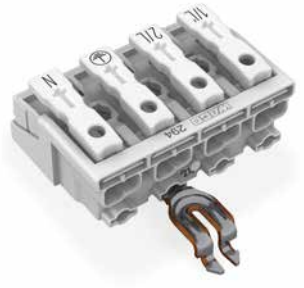


Field-wiring terminal block; with ground contact; with snap-in mounting feet; 4-pole; white

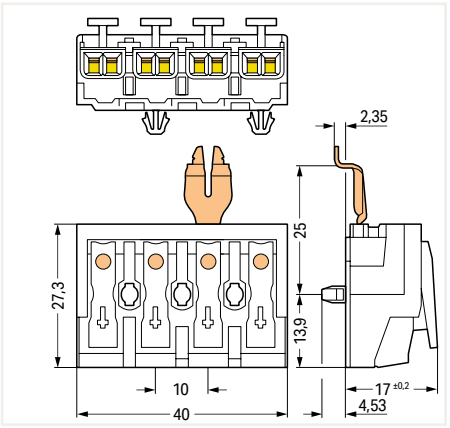
Marking	Item No.	Pack. Unit
○ 1/L´-2/L-GND-N	294-5224	500
○ 1-2-GND-N	294-5214	500

Field-wiring terminal block; with snap-in ground contact; without snap-in mounting feet; 4-pole; white

○ 1/L´-2/L-GND-N	294-4224	500
○ 1-2-GND-N	294-4214	500



Dimensions in mm



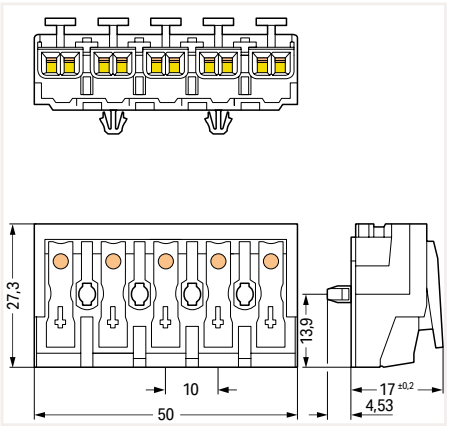
Field-wiring terminal block; with angled ground contact; with snap-in mounting feet; 4-pole; white

Marking	Item No.	Pack. Unit
○ 1/L´-2/L-GND-N	294-5324	500
○ 1-2-GND-N	294-5314	500

Field-wiring terminal block; with angled snap-in ground contact; without snap-in mounting feet; 4-pole; white

○ 1/L´-2/L-GND-N	294-4324	500
○ 1-2-GND-N	294-4314	500

Dimensions in mm



Field-wiring terminal block; without ground contact; with snap-in mounting feet; 5-pole; white

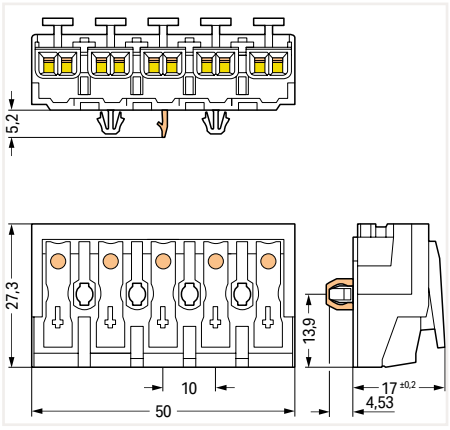
Marking	Item No.	Pack. Unit
○ L´-N´-L-GND-N	294-5025	250
○ L3-L2-L1-GND-N	294-5015	250
○ DA+ DA- L GND N	294-5035	250
○ DA- N GND L DA+	294-5075	250
○ 3-N-GND-1-2	294-5055	250
○ 5-4-3-2-1	294-5045	250
○ plain	294-5005	250
○ DA+ DA- L E N	294-5095/5025-000	250
○ L3-L2-L1-E-N	294-5095/5026-000	250
○ L´-N´-L-E-N	294-5095/5027-000	250

Field-wiring terminal block; without ground contact; without snap-in mounting feet; 5-pole; white

○ L´-N´-L-GND-N	294-4025	250
○ L3-L2-L1-GND-N	294-4015	250
○ DA+ DA- L GND N	294-4035	250
○ DA- N GND L DA+	294-4075	250
○ 3-N-GND-1-2	294-4055	250
○ 5-4-3-2-1	294-4045	250
○ plain	294-4005	250
○ DA+ DA- L E N	294-4095/5025-000	250
○ L3-L2-L1-E-N	294-4095/5026-000	250
○ L´-N´-L-E-N	294-4095/5027-000	250

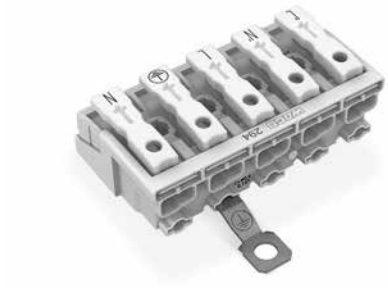
PUSH-IN CAGE CLAMP® PUSH WIRE®

Dimensions in mm

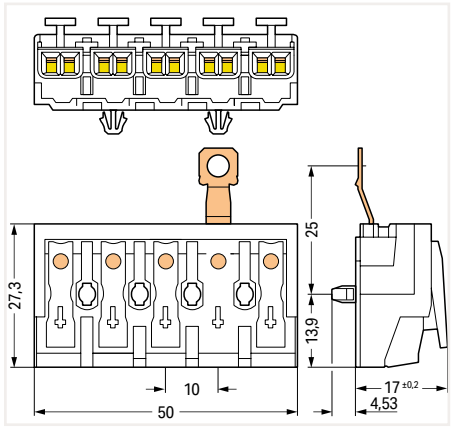


Field-wiring terminal block; with direct ground contact; with snap-in mounting feet; 5-pole; white

Marking	Item No.	Pack. Unit
○ DA- N GND L DA+	294-5175	250
○ 3-N-GND-1-2	294-5155	250

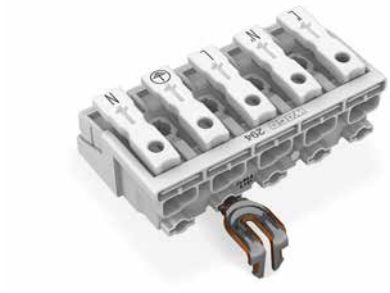


Dimensions in mm

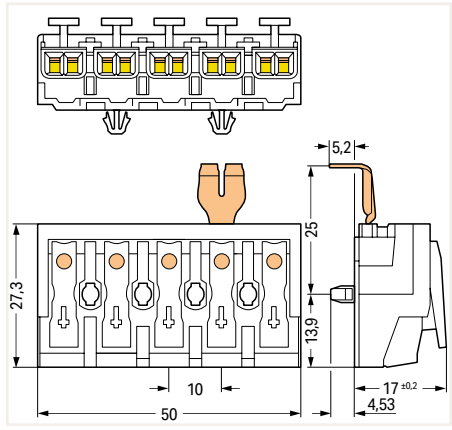


Field-wiring terminal block; with screw-type ground contact; with snap-in mounting feet; 5-pole; white

Marking	Item No.	Pack. Unit
○ L´-N´-L-GND-N	294-5425	250
○ L3-L2-L1-GND-N	294-5415	250
○ DA+ DA- L GND N	294-5435	250
○ DA- N GND L DA+	294-5475	250
○ 3-N-GND-1-2	294-5455	250



Dimensions in mm



Field-wiring terminal block; with ground contact; with snap-in mounting feet; 5-pole; white

Marking	Item No.	Pack. Unit
○ L´-N´-L-GND-N	294-5225	250
○ L3-L2-L1-GND-N	294-5215	250
○ DA+ DA- L GND N	294-5235	250
○ DA- N GND L DA+	294-5275	250
○ 3-N-GND-1-2	294-5255	250

Field-wiring terminal block; with screw-type ground contact; without snap-in mounting feet; 5-pole; white

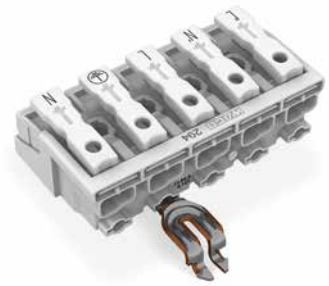
○ L´-N´-L-GND-N	294-4425	250
○ L3-L2-L1-GND-N	294-4415	250
○ DA+ DA- L GND N	294-4435	250
○ DA- N GND L DA+	294-4475	250
○ 3-N-GND-1-2	294-4455	250

Field-wiring terminal block; with snap-in ground contact; without snap-in mounting feet; 5-pole; white

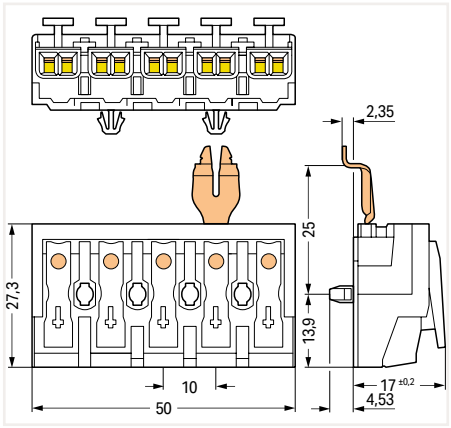
○ L´-N´-L-GND-N	294-4225	250
○ L3-L2-L1-GND-N	294-4215	250
○ DA+ DA- L GND N	294-4235	250
○ DA- N GND L DA+	294-4275	250
○ 3-N-GND-1-2	294-4255	250

PUSH-IN CAGE CLAMP® PUSH WIRE®

Field-Wiring Terminal Block
2.5 mm; 294 Series



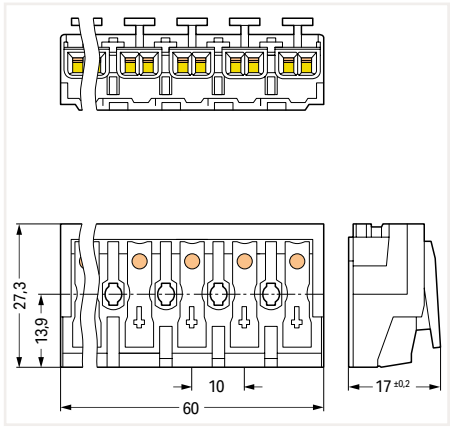
Dimensions in mm



Field-wiring terminal block; without ground contact; with snap-in mounting feet; 5-pole; white		
Marking	Item No.	Pack. Unit
○ L´-N´-L-GND-N	294-5325	250
○ L3-L2-L1-GND-N	294-5315	250
○ DA+ DA- L GND N	294-5335	250
○ DA- N GND L DA+	294-5375	250
○ 3-N-GND-1-2	294-5355	250

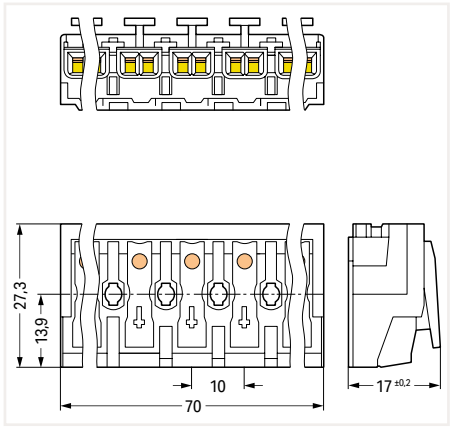
Field-wiring terminal block; without ground contact; without snap-in mounting feet; 5-pole; white		
○ L´-N´-L-GND-N	294-4325	250
○ L3-L2-L1-GND-N	294-4315	250
○ DA+ DA- L GND N	294-4335	250
○ DA- N GND L DA+	294-4375	250
○ 3-N-GND-1-2	294-4355	250

Dimensions in mm



Field-wiring terminal block; without ground contact; without snap-in mounting feet; 6-pole; white		
Marking	Item No.	Pack. Unit
○ plain	294-4006	200

Dimensions in mm



Field-wiring terminal block; without ground contact; without snap-in mounting feet; 7-pole; white		
Marking	Item No.	Pack. Unit
○ plain	294-4007	200

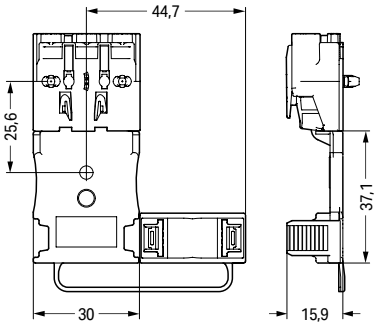
9

Tool and Strain Relief Plate

Assembly tool; presses snap-in mounting feet into the mounting plate; fits ground connections safely and easily

	Item No.	Pack. Unit
	294-199	50

Dimensions in mm



Strain relief plate; with locking clip; for multicore cable: 1 x 5.2 … 12 mm outer diameter

Marking	Item No.	Pack. Unit
○ white	**294-364**	50

Strain relief plate; with locking clip; for flat cables and individual conductors: min. 3 x 0.5 mm², max. 5 x 2.5 mm² or 7 x 1.5 mm²

○ white	**294-384**	50

Dimensions in mm

Strain relief; with snap-in mounting feet; for 4.5 … 12 mm cable diameter

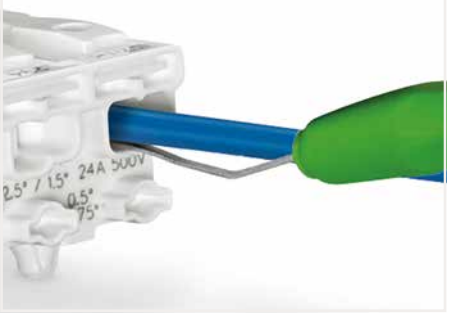
Marking	Item No.	Pack. Unit
○ white	**294-370**	500

Strain relief; for screw/rivet mounting; for 4.5 … 12 mm cable diameter

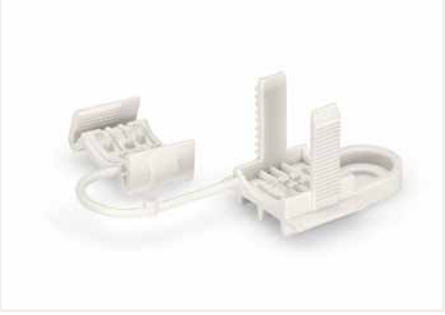
○ white	**294-375**	500

Disconnection tool; removes conductors from PUSH WIRE® connections

	Item No.	Pack. Unit
	206-294	1



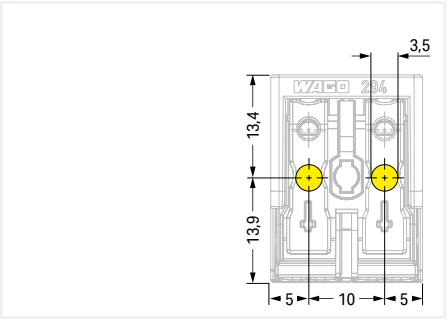
Conductor removal:
Slide disconnection tool beneath the conductor and pull both conductor and tool out.



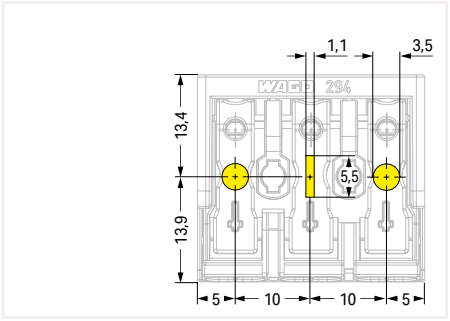
Strain relief; for screw/rivet mounting; for 4.5 … 12 mm cable diameter

9

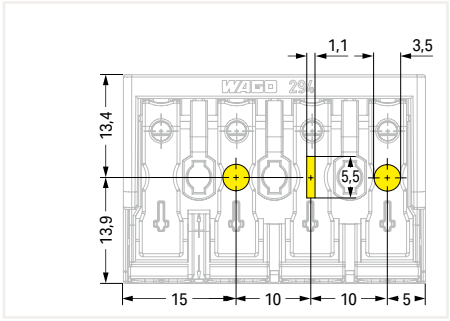
Drilled-Hole Patterns for Snap-In Mounting Feet
294 Series



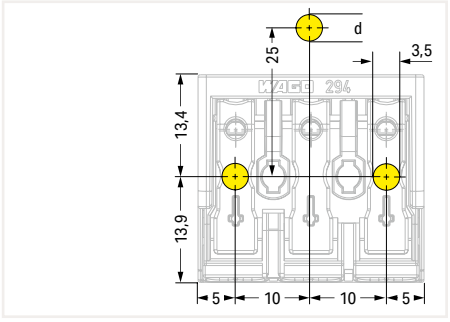
2-pole – without ground contact



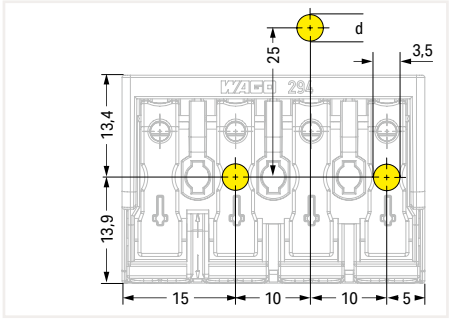
3-pole – with direct ground contact



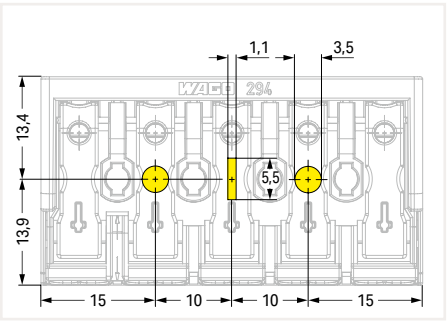
3-pole – with direct ground contact



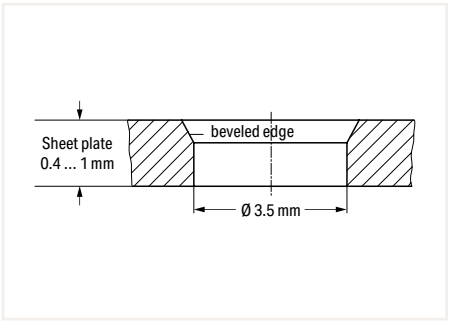
3-pole –
with snap-in ground contact, d = 4.9 mm
with screw-type ground contact, d ≤ 4.1 mm



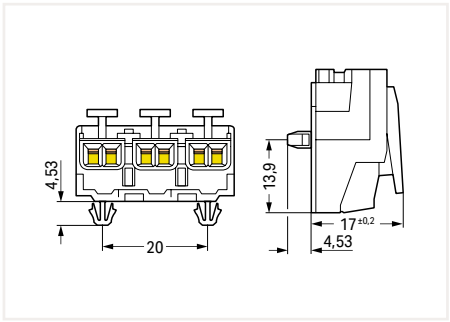
4-pole –
with snap-in ground contact, d = 4.9 mm
with screw-type ground contact, d ≤ 4.1 mm



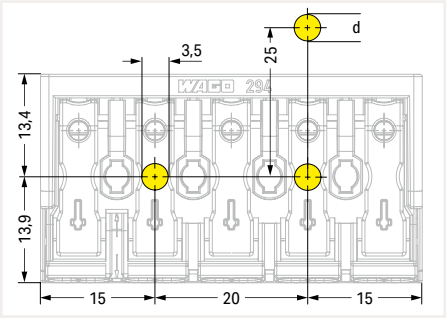
3-pole – with direct ground contact



Drilled hole for snap-in mounting foot



Snap-in mounting foot

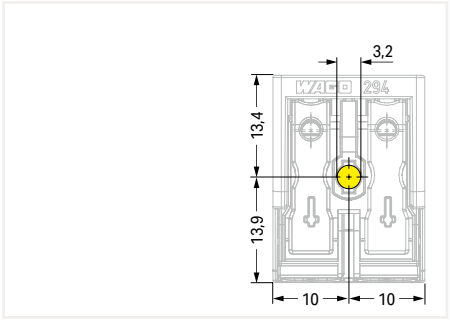


5-pole –
with snap-in ground contact, d = 4.9 mm
with screw-type ground contact, d ≤ 4.1 mm

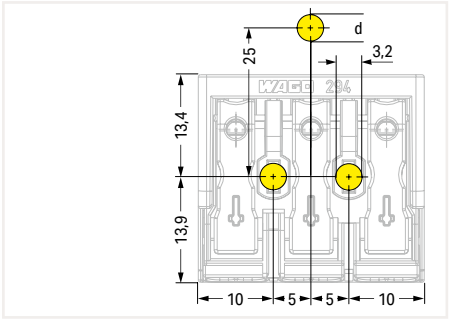
9

Drilled-hole patterns at 1:1 scale

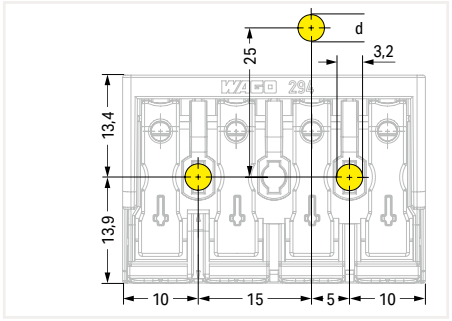
Drilled-Hole Patterns for Snap-In Mounting Feet
294 Series



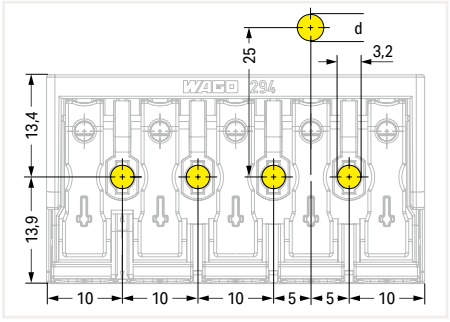
2-pole – without ground contact



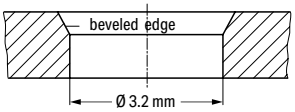
3-pole –
with snap-in ground contact, d = 4.9 mm
with screw-type ground contact, d ≤ 4.1 mm



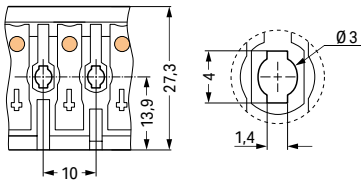
4-pole –
with snap-in ground contact, d = 4.9 mm
with screw-type ground contact, d ≤ 4.1 mm



5-pole –
with snap-in ground contact, d = 4.9 mm
with screw-type ground contact, d ≤ 4.1 mm

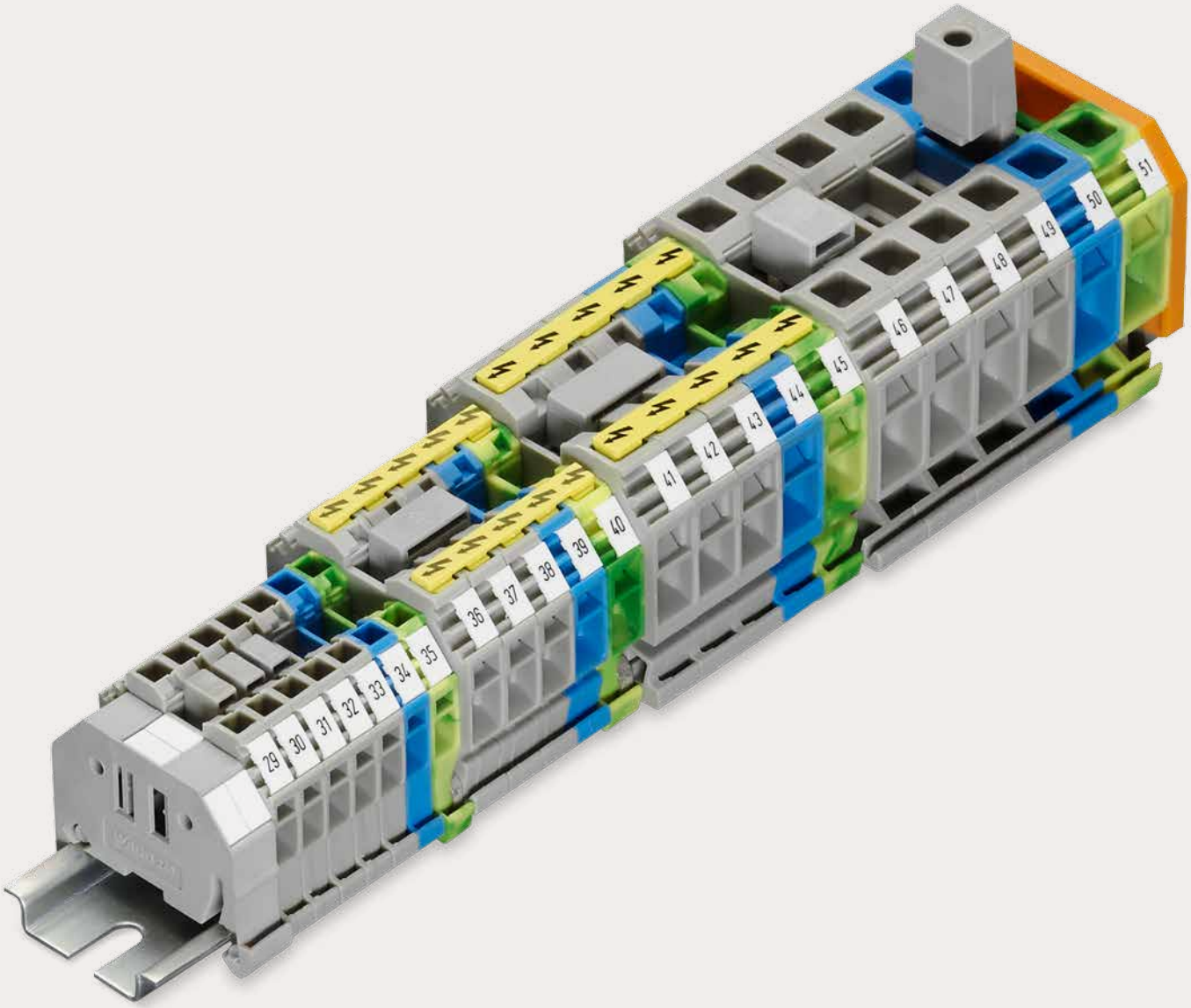


Hole for screw mount
Notice:
The maximum thread diameter for self-tapping screws is 3 mm.



Mounting hole for screw
Notice:
The maximum thread diameter for self-tapping screws is 3 mm.

9



WAGO Rail-Mount Terminal Blocks Classic

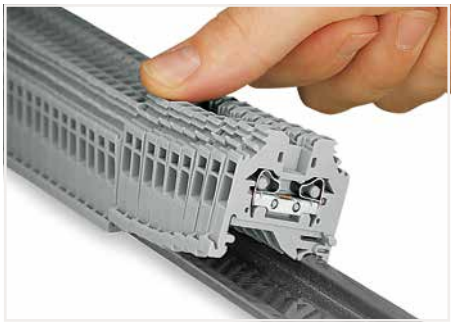
CAGE CLAMP®

WAGO Rail-Mount Terminal Blocks Classic
Side-Entry Wiring

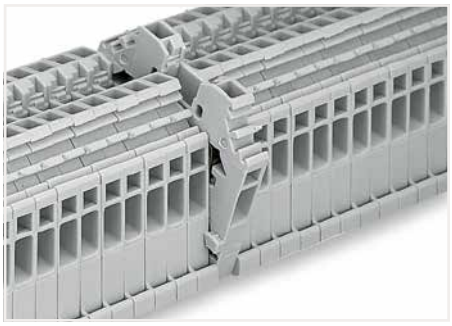
			Page
	Through and Ground Conductor Terminal Blocks 0.08 … 16 mm² (28 … 6 AWG)	279 … 283 Series	502
	Disconnect/Test Terminal Blocks and Ground Conductor Disconnect Terminal Blocks 0.2 … 6 mm² (24 … 10 AWG)	282 Series	506
	Fuse Terminal Blocks 0.2 … 6 mm² (24 … 10 AWG)	282 Series	508

10

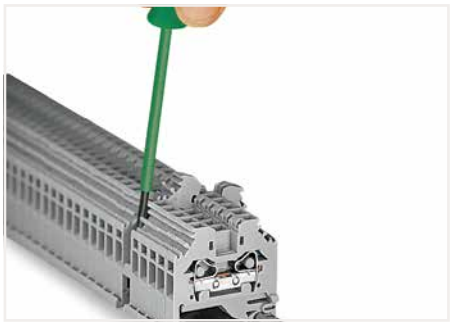
Rail-Mount Terminal Blocks Classic; Side-Entry Wiring
279 … 284 Series
Description and Installation



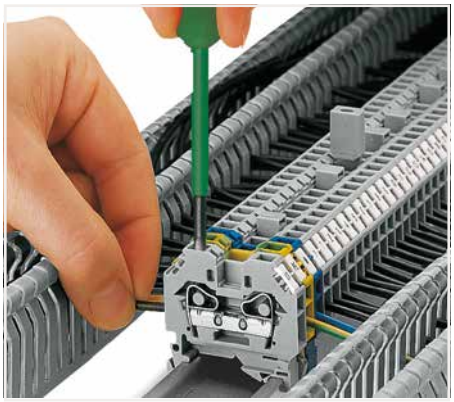
Snapping side-entry rail-mount terminal blocks onto the DIN-rail.



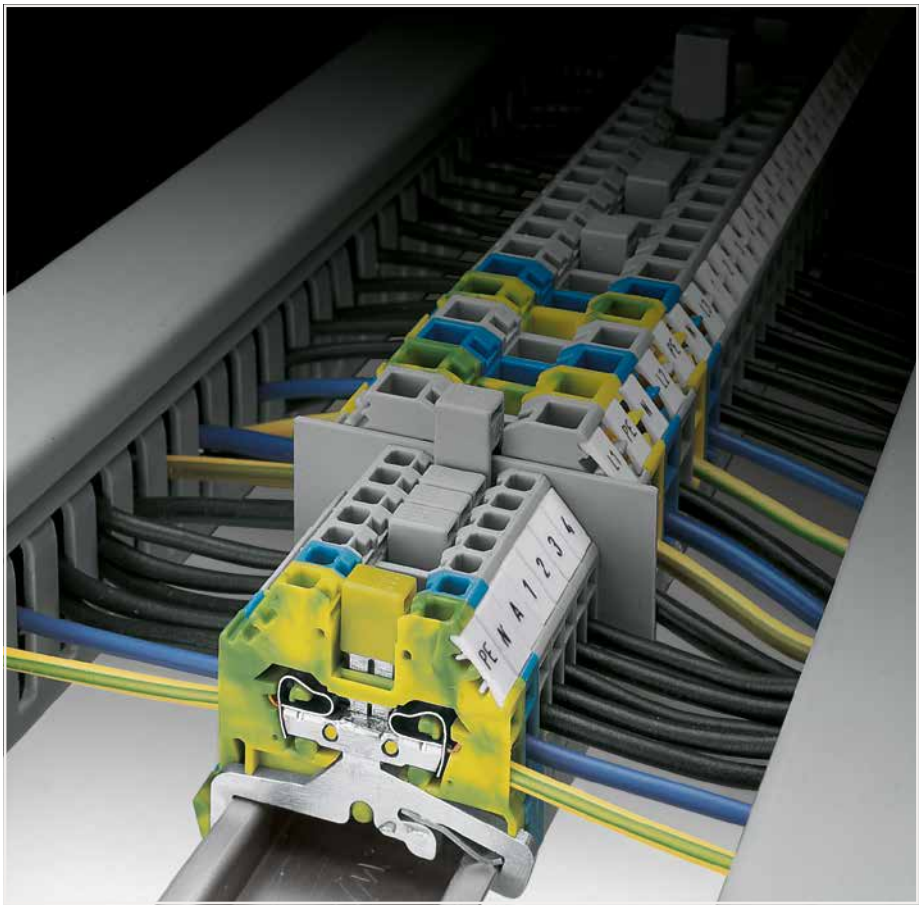
Quick assembly keys prevent reverse mounting.

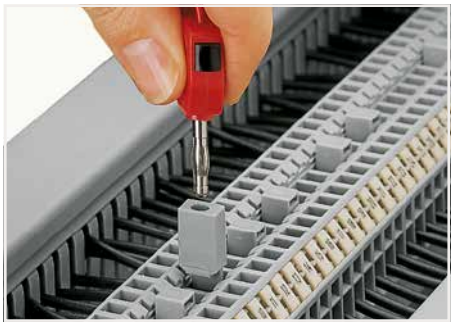


Removing a terminal block from the assembly.



CAGE CLAMP® connection
Inserting a conductor.
With ferruled conductors, it is necessary to use a terminal block one size larger than the conductor's nominal cross section.





Testing with a test plug –
Picture shows a test plug adapter (209-170).

Commoning using an adjacent jumper (280-402).
Push jumpers down until fully inserted.

Commoning side-entry rail-mount terminal blocks via step-down jumpers.
Push down the step-down jumper until fully inserted.

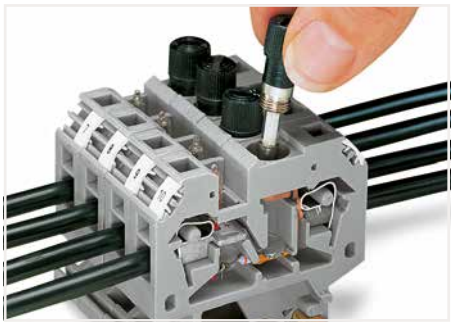
CAGE CLAMP® terminates the following copper conductors:
solid

stranded

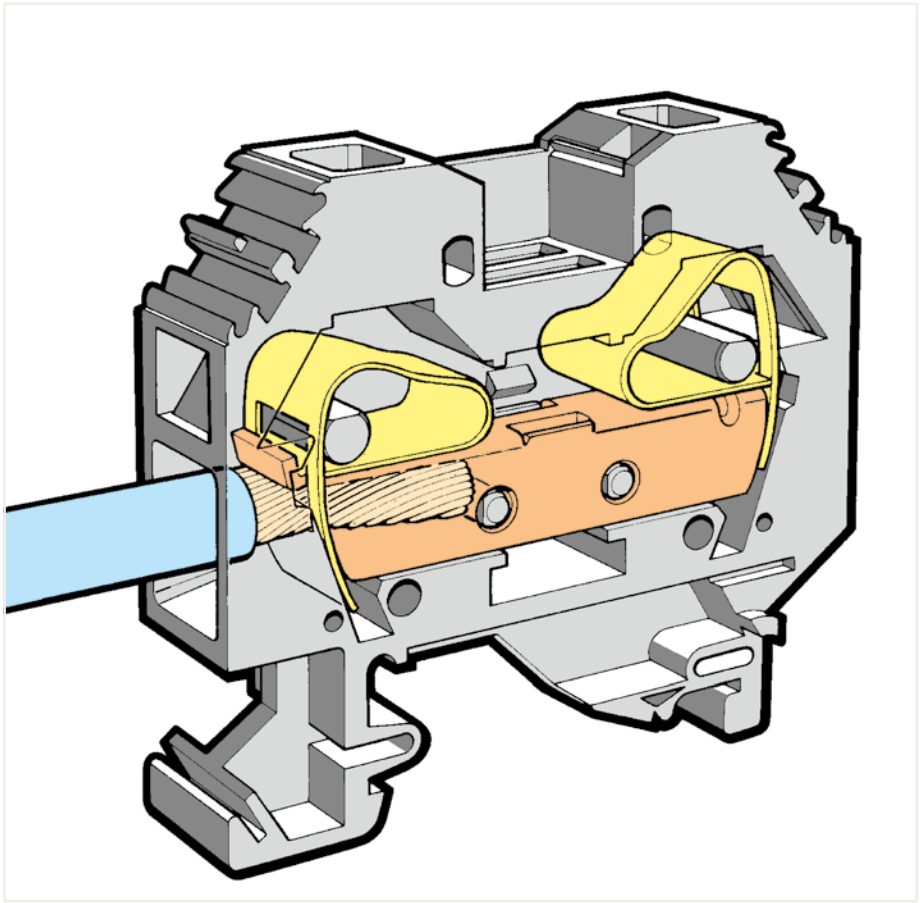
fine-stranded, also with tinned single strands

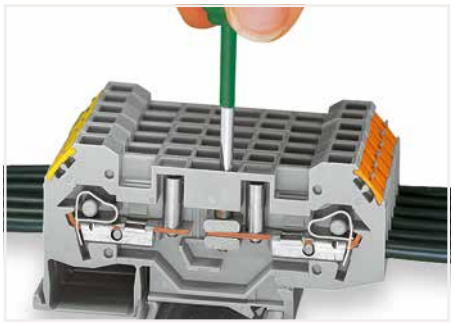
For aluminum conductors, see notes in Section 14.

Suitable for all DIN-35 rails

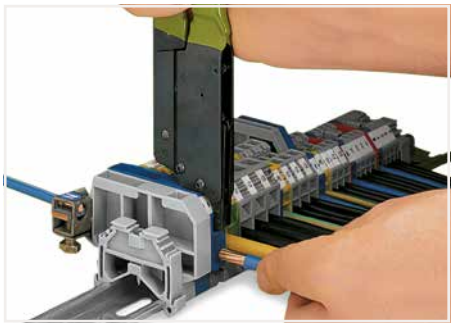


Replacing a fuse.





Shifting the disconnect slide link of a disconnect/test terminal block.



When operating the handles beyond the locked position, the ratchet allows the tool to open and be removed from the terminal block.

Labeling via WMB Multi Marking System.

fine-stranded, tip-bonded

fine-stranded, with ferrule (gastight crimped)

fine-stranded, with pin terminal (gastight crimped)

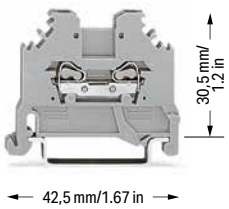
Through and Ground Conductor Terminal Block

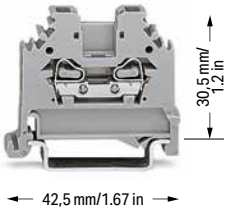
1.5 mm²; 279 Series and 2.5 mm²; 280 Series and 4 mm²; 281 Series and 6 mm²; 282 Series

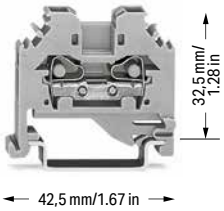
Technical Data	
0.08 … 1.5 mm²	28 … 16 AWG
800 V/8 kV/3 ❶	600 V, 10 A
I_N 18 A	600 V, 15 A
Terminal block width: 4 mm / 0.157 inch	
8 … 9 mm / 0.31 … 0.35 inch	

Technical Data	
0.08 … 2.5 mm²	28 … 12 AWG*
800 V/8 kV/3 ❶	600 V, 20 A
I_N 24 A	600 V, 20 A
Terminal block width: 5 mm / 0.197 inch	
8 … 9 mm / 0.31 … 0.35 inch	

Technical Data	
0.08 … 4 mm²	28 … 12 AWG
800 V/8 kV/3 ❶	600 V, 20 A
I_N 32 A	600 V, 25 A
Terminal block width: 6 mm / 0.236 inch	
9 … 10 mm / 0.35 … 0.39 inch	







2-conductor through terminal block

Color	Item No.	Pack. Unit
gray	279-101	100
blue	279-104 ❷	100

2-conductor through terminal block

Color	Item No.	Pack. Unit
gray	280-101	100
blue	280-104 ❷	100

2-conductor ground terminal block

green-yellow	281-107	100

2-conductor through terminal block

Color	Item No.	Pack. Unit
gray	281-101	100
blue	281-104 ❷	100

2-conductor ground terminal block

green-yellow	281-107	100

Accessories; item-specific

End and intermediate plate; 2.5 mm thick

orange	280-302	100 (25)
gray	280-301	100 (25)

Separator; oversized; 2 mm thick

orange	280-322	100 (25)
gray	280-332	100 (25)

Adjacent jumper; insulated; I_N 15 A

gray	279-402	200 (25)
yellow-green	279-422	200 (25)

Alternate jumper; insulated; I_N 15 A

gray	279-409	100 (25)

Step-down jumper; insulated; commons 10/6 mm² (8/10 AWG) down to 4/2.5/1.5 mm² (12/14/16 AWG); I_N 15 A

gray	284-414	50 (25)

Step-down intermediate plate; 1 mm thick; only for 4, 2.5 and 1.5 mm² terminal blocks

gray	281-333	100 (25)
orange	281-336	100 (25)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks

yellow	279-405	100 (25)

Test plug adapter; 8.3 mm wide; for 4 mm Ø test plug; for 1.5 … 10 mm² terminal blocks

gray	209-170	50 (25)

Test plug adapter; 5 mm wide; for 210-137 Test Plug (2.3 mm Ø); for 1.5 … 4 mm² terminal blocks

gray	280-404	100 (25)

Accessories; item-specific

End and intermediate plate; 2.5 mm thick

orange	280-302	100 (25)
gray	280-301	100 (25)

Separator; oversized; 2 mm thick

orange	280-322	100 (25)
gray	280-332	100 (25)

Adjacent jumper; insulated; I_N = I_N terminal block

gray	280-402	200 (25)
yellow-green	280-422	200 (25)

Alternate jumper; insulated; I_N = I_N terminal block

gray	280-409	100 (25)

Step-down jumper; insulated; commons 10/6 mm² (8/10 AWG) down to 4/2.5/1.5 mm² (12/14/16 AWG); I_N 15 A

gray	284-414	50 (25)

Step-down intermediate plate; 1 mm thick; only for 4, 2.5 and 1.5 mm² terminal blocks

gray	281-333	100 (25)
orange	281-336	100 (25)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks

yellow	280-405	100 (25)

Test plug adapter; 8.3 mm wide; for 4 mm Ø test plug; for 1.5 … 10 mm² terminal blocks

	209-170	50 (25)

Test plug adapter; 5 mm wide; for 210-137 Test Plug (2.3 mm Ø); for 1.5 … 4 mm² terminal blocks

gray	280-404	100 (25)

Accessories; item-specific

End and intermediate plate; 3 mm thick

orange	281-302	100 (25)
gray	281-301	100 (25)

Separator; oversized; 2 mm thick

orange	281-322	100 (25)
gray	281-332	100 (25)

Adjacent jumper; insulated; I_N = I_N terminal block

gray	281-402	200 (25)
yellow-green	281-422	200 (25)

Alternate jumper; insulated; I_N = I_N terminal block

gray	281-409	100 (25)

Step-down jumper; insulated; commons 10/6 mm² (8/10 AWG) down to 4/2.5/1.5 mm² (12/14/16 AWG); I_N 15 A

gray	284-414	50 (25)

Step-down intermediate plate; 1 mm thick; only for 4, 2.5 and 1.5 mm² terminal blocks

gray	281-333	100 (25)
orange	281-336	100 (25)

Step-down jumper; insulated; commons 10/6 mm² (8/10 AWG) down to 6/4 mm² (10/12 AWG); I_N 30 A

gray	284-413	50 (25)

Step-down jumper; insulated; commons 16 mm² (6 AWG) down to 4 mm² (12 AWG); I_N 32 A

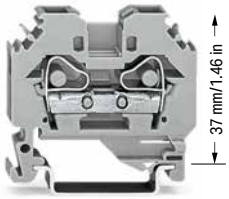
gray	283-414	50 (25)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks

yellow	281-405	100 (25)

10

Technical Data	
0.2 … 6 mm²	24 … 10 AWG
800 V/8 kV/3 ❶	600 V, 30 A
I_N 41 A	600 V, 10 A
Terminal block width: 8 mm / 0.315 inch	
12 … 13 mm / 0.47 … 0.51 inch	



2-conductor through terminal block		
Color	Item No.	Pack. Unit
gray	282-101	50
blue	282-104 ❷	50

2-conductor ground terminal block		
green-yellow	282-107	50

Accessories; item-specific

End and intermediate plate; 4 mm thick

orange	282-302	100 (25)
gray	282-301	100 (25)

Separator; oversized; 2 mm thick

orange	282-322	100 (25)
gray	282-332	100 (25)

Adjacent jumper; insulated; I_N 41 A

gray	282-402	100 (25)
yellow-green	282-422	100 (25)

Alternate jumper; insulated; I_N 41 A

gray	282-409	100 (25)

Step-down jumper; insulated; commons 10/6 mm² (8/10 AWG) down to 6/4 mm² (10/12 AWG); I_N 30 A

gray	284-413	50 (25)

Step-down cover plate; 1 mm thick

gray	284-333	100 (25)
orange	284-343	100 (25)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks

yellow	282-405	100 (25)

Test plug adapter; 8.3 mm wide; for 4 mm Ø test plug; for 1.5 … 10 mm² terminal blocks

gray	209-170	50 (25)

B-type test plug module; snaps together; 8 mm wide

gray	709-310	100 (25)

*12 AWG: THHN, THWN

❶ 800 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

❷ Terminal blocks with a blue insulated housing are suitable for Ex i applications.

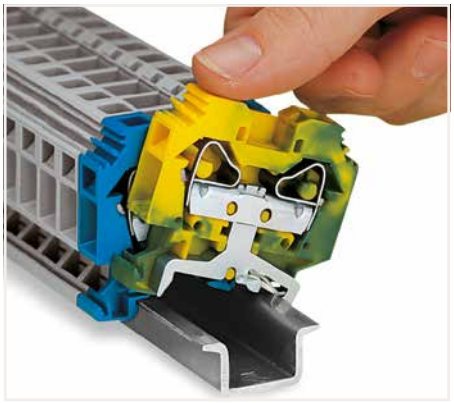
See application notes for:
Step-down jumper, page 234
Test plug module, page 345
Marking, from page 588

Approvals and corresponding ratings, visit www.wago.com

DIN-Rail	Item No.	Current [A]	Acc. to mm²/AWG Cu
DIN 35 x 7.5 (steel)			
slotted	210-112	76	16/6
unslotted	210-113	76	16/6
DIN 35 x 15 (steel)			
1.5 mm thick	210-114	125	35/2
2.3 mm thick	210-118	125	35/2
DIN 35 x 7.5 (Al)			
unslotted	210-196	76	16/6
DIN 35 x 15 (Cu)			
2.3 mm thick	210-198	309	150/6/0

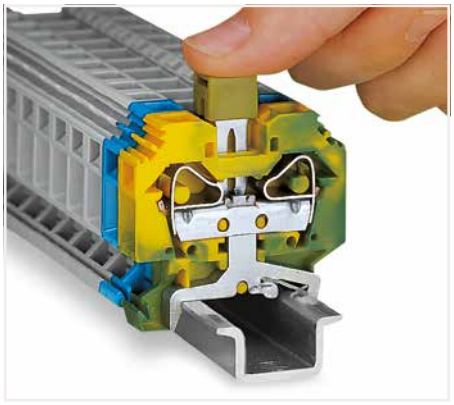
Current applies to rails of 1 m/3'3" length

When using standard DIN-rails as ground conductor busbars, please refer to the maximum current capacities listed above.
Steel DIN-rails are not suited for PEN (ground and N-conductor) applications per EN 60947-7-2 (VDE 0611, Part 3).



Snapping a terminal block onto the DIN-rail.
Ground conductor terminal blocks snap onto the rail in the same way as through terminal blocks, but automatically make a direct electrical connection to the rail.
After mounting, sliding the blocks on the rail is not possible.

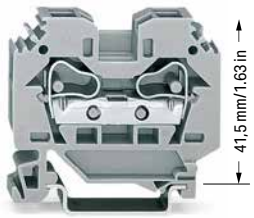
Removing a terminal block from the DIN-rail.
When mounting on the rail, ensure that open sides of terminal blocks face in the same direction.
Both mounting feet and removal slots are on the same side for all terminal blocks, making it possible to visually ensure blocks are facing in same direction.



Push jumper down until fully inserted.
Commoning ground conductor terminal blocks with through terminal blocks is possible in one direction only (via rear side of terminal block) using adjacent jumpers.
Recommends using yellow-green adjacent jumpers in addition to the required marking of these blocks.

Through and Ground Conductor Terminal Block
10 mm²; 284 Series and 16 mm²; 283 Series

Technical Data	
0.2 … 10 mm²	24 … 8 AWG
800 V/8 kV/3 ❶	600 V, 50 A
I_N 57 A	600 V, 65 A
Terminal block width: 10 mm / 0.394 inch	
12 … 13 mm / 0.47 … 0.51 inch	



2-conductor through terminal block		
Color	Item No.	Pack. Unit
gray	284-101	50
blue	284-104 ❷	50

2-conductor ground terminal block		
green-yellow	284-107	50

Accessories; item-specific

End and intermediate plate; 2.5 mm thick

orange	284-302	100 (25)
gray	284-301	100 (25)

Separator; oversized; 2 mm thick

orange	284-322	100 (25)
gray	284-332	100 (25)

Adjacent jumper; insulated; I_N 57 A

gray	284-402	100 (25)
yellow-green	284-422	100 (25)

Alternate jumper; insulated; I_N 57 A

gray	284-409	50 (25)

Step-down jumper; insulated; commons 10/6 mm² (8/10 AWG) down to 6/4 mm² (10/12 AWG); I_N 30 A

gray	284-413	50 (25)

Step-down cover plate; 1 mm thick

gray	284-333	100 (25)
orange	284-343	100 (25)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks

yellow	284-405	50 (25)

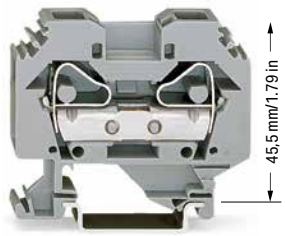
Test plug adapter; 8.3 mm wide; for 4 mm Ø test plug; for 1.5 … 10 mm² terminal blocks

	209-170	50 (25)

B-type test plug module; snaps together; 8 mm wide

gray	709-310	100 (25)

Technical Data	
0.2 … 16 mm²	24 … 6 AWG
800 V/8 kV/3 ❶	600 V, 65 A
I_N 76 A	600 V, 90 A
Terminal block width: 12 mm / 0.472 inch	
16 … 17 mm / 0.63 … 0.67 inch	



2-conductor through terminal block		
Color	Item No.	Pack. Unit
gray	283-101	50
blue	283-104 ❷	50

2-conductor ground terminal block		
green-yellow	283-107	50

Accessories; item-specific

End and intermediate plate; 4 mm thick

orange	283-302	50 (25)
gray	283-301	50 (25)

Separator; oversized; 2 mm thick

orange	283-322	50 (25)
gray	283-332	50 (25)

Adjacent jumper; insulated; I_N 70 A

gray	283-402	50 (25)
yellow-green	283-422	50 (25)

Alternate jumper; insulated; I_N 76 A

gray	283-409	50 (25)

Step-down jumper; insulated; commons 16 mm² (6 AWG) down to 4 mm² (12 AWG); I_N 32 A

gray	283-414	50 (25)

Step-down cover plate; 1 mm thick

gray	283-333	100 (25)
orange	283-335	100 (25)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks

yellow	283-405	50 (25)

Test plug adapter; 8.3 mm wide; for 4 mm Ø test plug; for 1.5 … 10 mm² terminal blocks

gray	283-404	25

❶ 800 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

See application notes for:
Step-down jumper, page 234
Test plug module, page 345
Marking, from page 588

Approvals and corresponding ratings, visit www.wago.com

Step-down jumpers common terminal blocks of different sizes, without losing a conductor clamping point. This can be beneficial on long conductor runs where voltage drop can be a problem. A large conductor can be easily connected to smaller conductors at the distribution point.

Step-down jumpers are simply pushed down for full insertion, similar to adjacent jumpers. Commoning may be made in either direction using the special thin end plate to cover the open side. Additional through terminal blocks having a smaller cross-section may be commoned using adjacent jumpers.

In this case, pay attention that:
The total current of the outgoing circuits does not exceed the nominal current of the step-down jumper.
The standard or special thin cover plate is installed on the open side of the larger block.

Step-Down Jumper; for Side-Entry Through Terminal Blocks
Installation

Side-entry terminal blocks cannot be commoned with front-entry terminal blocks via step-down jumpers. For commoning front-entry terminal blocks via step-down jumpers, see page 250.

Step-down jumper; insulated; commons 10/6 mm² (8/10 AWG) down to 4/2.5/1.5 mm² (12/14/16 AWG); I_N 15 A

Color	Item No.	Pack. Unit
gray	**284-414**	50 (25)

Step-down jumper; insulated; commons 10/6 mm² (8/10 AWG) down to 6/4 mm² (10/12 AWG); I_N 30 A

Color	Item No.	Pack. Unit
gray	**284-413**	50 (25)

Accessories; item-specific

Step-down cover plate; 1 mm thick

Color	Item No.	Pack. Unit
gray	**284-333**	100 (25)
orange	**284-343**	100 (25)

Step-down intermediate plate; 1 mm thick; only for 4, 2.5 and 1.5 mm² terminal blocks

Color	Item No.	Pack. Unit
gray	**281-333**	100 (25)
orange	**281-336**	100 (25)

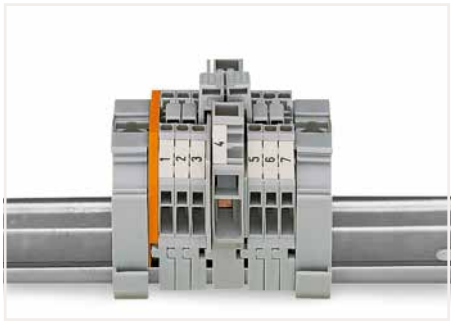
Step-down jumper; insulated; commons 16 mm² (6 AWG) down to 4 mm² (12 AWG); I_N 32 A

Color	Item No.	Pack. Unit
gray	**283-414**	50 (25)

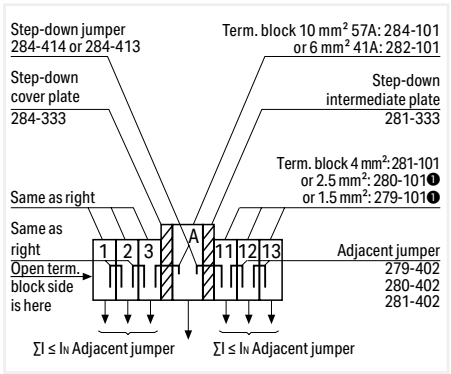
Accessories; item-specific

Step-down cover plate; 1 mm thick

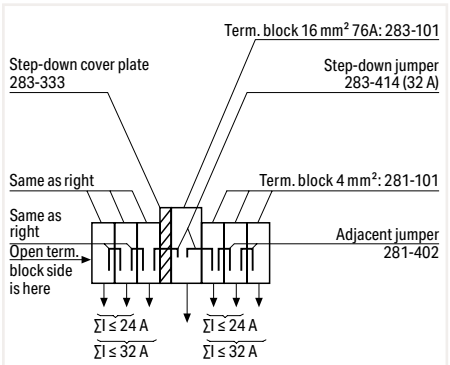
Color	Item No.	Pack. Unit
gray	**283-333**	100 (25)
orange	**283-335**	100 (25)



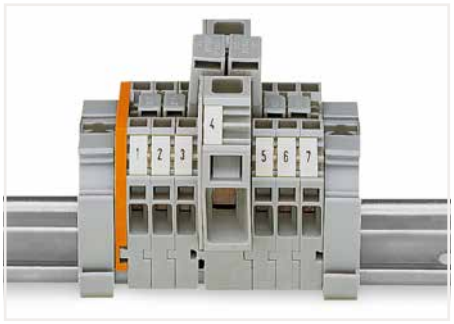
Commoning from 6 mm²/10 AWG (282 Series) to 1.5 mm²/16 AWG (279 Series) rail-mount terminal blocks via step-down jumpers.



Assembly example: Commoning from 10/6 mm² (8/10 AWG) to 4/2.5/1.5 mm² (12/14/16 AWG) rail-mount terminal blocks via step-down jumper (284-414).
❶ Commoning with step-down jumpers from 10 mm² (284-101) to 2.5 mm² (280-101) or 1.5 mm² (279-101) terminal blocks via the terminal block rear side is not possible (see example: terminal block A to 11).



Assembly example: Commoning from 16 mm²/6 AWG to 4 mm²/12 AWG rail-mount terminal blocks via step-down jumper (283-414).

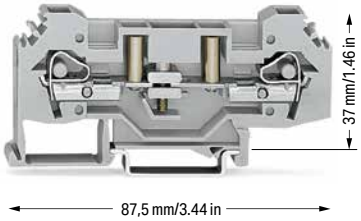


Commoning from 16 mm²/6 AWG (283 Series) to 4 mm²/12 AWG (281 Series) rail-mount terminal blocks via step-down jumpers.

10

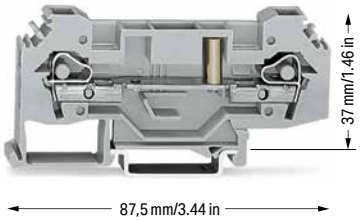
Disconnect/Test Terminal Block
6 mm²; 282 Series

Technical Data	
0.2 … 6 mm²	24 … 10 AWG
400 V/6 kV/3 ❶	300 V, 30 A
I_N 41 A	300 V, 40 A
Terminal block width: 8 mm / 0.315 inch	
12 … 13 mm / 0.47 … 0.51 inch	



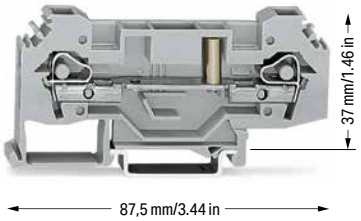
Disconnect/test terminal block; with 4 mm Ø test sockets		
Color	Item No.	Pack. Unit
gray	282-131	25

Technical Data	
0.2 … 6 mm²	24 … 10 AWG
400 V/6 kV/3 ❶	300 V, 30 A
I_N 41 A	300 V, 40 A
Terminal block width: 8 mm / 0.315 inch	
12 … 13 mm / 0.47 … 0.51 inch	



Through terminal block		
Color	Item No.	Pack. Unit
gray	282-133	25

Technical Data	
0.2 … 6 mm²	24 … 10 AWG
400 V/6 kV/3 ❶	300 V, 30 A
I_N 41 A	300 V, 40 A
Terminal block width: 8 mm / 0.315 inch	
12 … 13 mm / 0.47 … 0.51 inch	



Disconnect/test terminal block; without test sockets		
Color	Item No.	Pack. Unit
gray	282-135	25

Accessories; item-specific

Alternate jumper; insulated; I_N 41 A

gray 282-409 100 (25)

Lock-out; prevents reclosing of slide link; snap-on type

orange 282-137 100 (25)

Accessories; item-specific

Alternate jumper; insulated; I_N 41 A

gray 282-409 100 (25)

Accessories; item-specific

Alternate jumper; insulated; I_N 41 A

gray 282-409 100 (25)

Lock-out; prevents reclosing of slide link; snap-on type

orange 282-137 100 (25)

Accessories; 282 Series

Appropriate marking system: WMB

End and intermediate plate; 4 mm thick

gray 282-315 50 (25)

orange 282-314 50 (25)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks

yellow 282-405 100 (25)

Adjacent jumper; insulated; I_N 41 A

gray 282-402 100 (25)

Test plug adapter; 8.3 mm wide; for 4 mm Ø test plug; for 1.5 … 10 mm² terminal blocks

gray 209-170 50 (25)

B-type test plug module; snaps together; 8 mm wide

gray 709-310 100 (25)

B-type spacer module; snaps together; 8 mm wide

gray 709-311 100 (25)

Screwless end stop; for DIN-35 rail; 6 mm wide

gray 249-116 100 (25)

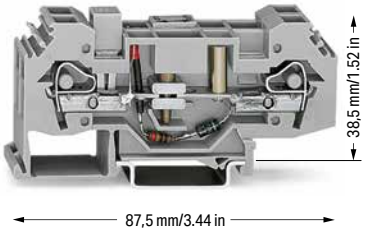
Screwless end stop; for DIN-35 rail; 10 mm wide

gray 249-117 50 (25)

10

Technical Data	
0.2 … 6 mm²	24 … 10 AWG

Terminal block width: 16 mm / 0.63 inch
12 … 13 mm / 0.47 … 0.51 inch



Ground conductor disconnect terminal block; gray		
Color	Item No.	Pack. Unit
24 V	282-140	12
48 V	282-141	12
120 V	282-138	12
230 V	282-139	12

Accessories; item-specific

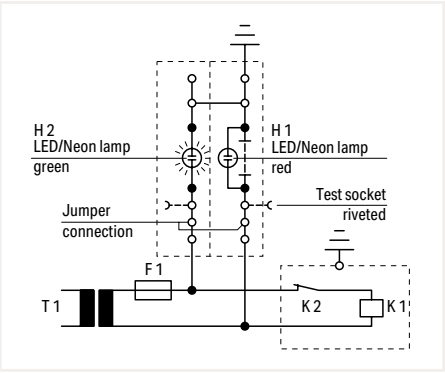
Lock-out; prevents reclosing of slide link; snap-on type

orange	282-137	100 (25)

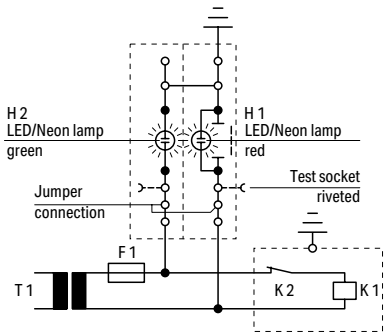
❶ 400 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

See application notes for:
Test plug module, page 345
Marking, from page 588

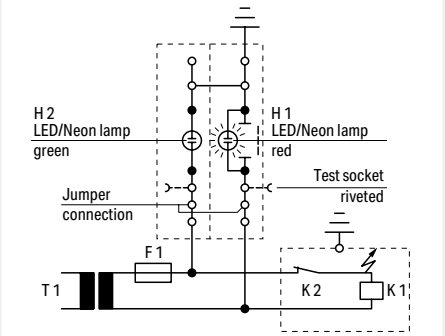
Approvals and corresponding ratings, visit www.wago.com



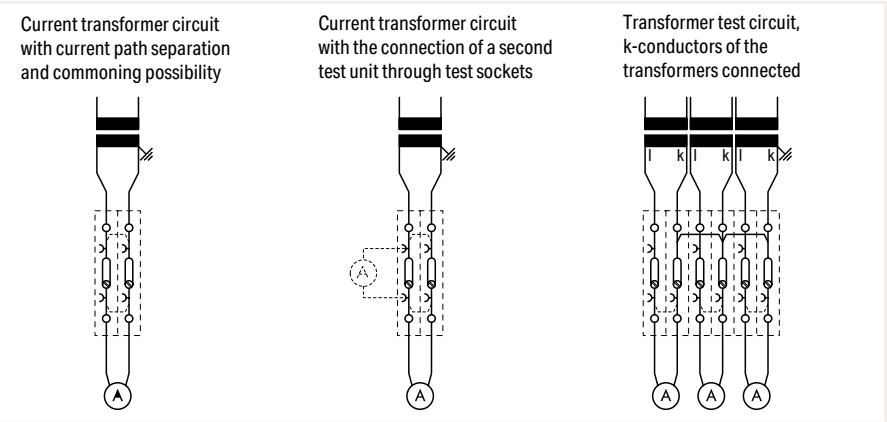
Operation
Slide link closed, auxiliary circuit grounded, green LED/neon lamp illuminates.



Test condition – no grounding
Slide link open, auxiliary circuit not grounded.



Test condition – grounding
Slide link open, auxiliary circuit not grounded, red LED/neon lamp illuminates.



IEC 60204/DIN VDE 0113 "Safety of machinery – Electrical equipment of machines – Part 1: General requirements," Section 9.4.3.1:

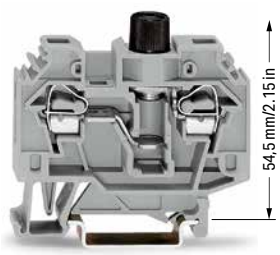
Ground faults on control circuits must not cause unintentional starting, hazardous movements, or prevent stopping of the machine.

In order to fulfill this requirement, a connection to the protective bonding circuit must be provided in accordance with Section 8.2 and the devices must be connected as described in Section 9.1.4. Control circuits fed from a transformer and not connected to the protective bonding circuit must be provided with an insulation monitoring device (e.g., residual current device), which either indicates a ground fault or interrupts the circuit automatically after a ground fault.
In the case of electronic circuits, the connection of one side of the control circuit to the protective bonding circuit in accordance with Section 9.1.4 can prevent unintentional operation. When this does not help, or if due to other reasons that electronic circuits cannot be connected to the protective bonding circuit, other measures must be taken to achieve the same level of safety.

Multipole control switches that interrupt all live conductors must be used where the control circuit is directly connected between the phase conductors of the supply or between a phase conductor and a neutral conductor, which is either not grounded or grounded through a high impedance. This is required for starting or stopping machine functions, which can cause a hazardous situation including: damaging the machine or halting work in progress in the event of unintentional starting or failure to stop.

Fuse Terminal Block
6 mm²; 282 Series

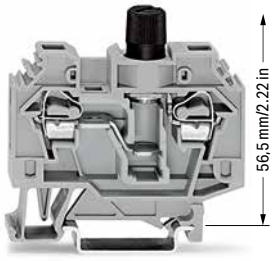
Technical Data	
0.2 … 6 mm²	24 … 10 AWG
500 V/6 kV/3 ❶	600 V, 10 A
I_N 10 A	250 V, 10 A
Terminal block width: 13 mm / 0.512 inch	
12 … 13 mm / 0.47 … 0.51 inch	



2-conductor fuse terminal block; for 5 x 20 mm glass cartridge fuse; without indicator

Color	Item No.	Pack. Unit
gray	282-122	40

Technical Data	
0.2 … 6 mm²	24 … 10 AWG
500 V/6 kV/3 ❶	
I_N 10 A	250 V, 10 A
Terminal block width: 13 mm / 0.512 inch	
12 … 13 mm / 0.47 … 0.51 inch	



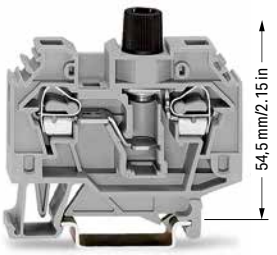
2-conductor fuse terminal block; for ¼" x 1¼" glass cartridge fuse; without indicator

Color	Item No.	Pack. Unit
gray	282-120	40

2-conductor fuse terminal block; for ¼" x 1¼" glass cartridge fuse; without indicator

Color	Item No.	Pack. Unit
gray	282-128	40

Technical Data	
0.2 … 6 mm²	24 … 10 AWG
500 V/6 kV/3 ❶	600 V, 10 A
I_N 10 A	250 V, 10 A
Terminal block width: 13 mm / 0.512 inch	
12 … 13 mm / 0.47 … 0.51 inch	



2-conductor fuse terminal block; for 5 x 25 mm glass cartridge fuse; with indicator

Color	Item No.	Pack. Unit
gray	282-126	40

Accessories; item-specific

Glass cartridge fuse; without indicator; 5 x 20 mm; 6.3 A / 250 V; medium-acting

282-451 100

Glass cartridge fuse; without indicator; ¼" x 1", 10 A / 240 V; per BS 1362

282-458 200 (10)

Glass cartridge fuse; without indicator; ¼" x 1¼"; 10 A / 250 V; medium-acting

282-457 200 (100)

Glass cartridge fuse; without indicator; ¼" x 1¼"; very fast-acting

282-454 200 (10)

Glass cartridge fuse; with indicator; 5 x 25 mm; 6.3 A / 250 V; medium-acting

282-452 200 (10)

Glass cartridge fuse; with indicator; 5 x 25 mm, 10 A / 450 V; fast-acting

282-453 200 (10)

Accessories; 282 Series

Appropriate marking system: WMB

End and intermediate plate; 4 mm thick

gray 282-312 50 (25)
orange 282-311 50 (25)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks

yellow 282-405 100 (25)

Adjacent jumper; insulated; I_N 41 A

gray 282-402 100 (25)

Test plug adapter; 8.3 mm wide; for 4 mm Ø test plug; for 1.5 … 10 mm² terminal blocks

gray 209-170 50 (25)

Test plug adapter; 6 mm wide; with CAGE CLAMP®; for 0.08 … 2.5 mm²

I_N 24 A 281-407 100 (25)

Operating pliers; for 281, 282, 283, 284 Series side-entry rail-mounted terminal blocks

210-141 1

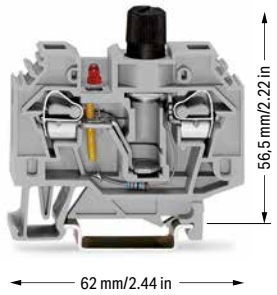
10

Technical Data

0.2 … 6 mm²	24 … 10 AWG

Terminal block width: 13 mm / 0.512 inch

12 … 13 mm / 0.47 … 0.51 inch



2-conductor fuse terminal block; for ¼" x 1¼" glass cartridge fuse; with 24 VDC red LED

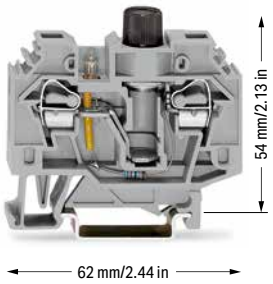
Color	Item No.	Pack. Unit
gray	282-128/281-413	40

Technical Data

0.2 … 6 mm²	24 … 10 AWG

Terminal block width: 13 mm / 0.512 inch

12 … 13 mm / 0.47 … 0.51 inch



2-conductor fuse terminal block; for ¼" x 1¼" glass cartridge fuse; with 250 VAC/220 VDC neon lamp

Color	Item No.	Pack. Unit
gray	282-128/281-417	40

2-conductor fuse terminal block; for 5 x 20 mm glass cartridge fuse; with 250 VAC/220 VDC neon lamp

gray	282-124	40

2-conductor fuse terminal block; for ¼" x 1¼" glass cartridge fuse; with 120 VAC/DC neon lamp

gray	282-128/281-418	40

Accessories; item-specific

Glass cartridge fuse; without indicator; ¼" x 1¼"; 10 A / 250 V; medium-acting

282-457 200 (100)

Glass cartridge fuse; without indicator; ¼" x 1¼"; very fast-acting

282-454 200 (10)

Accessories; item-specific

Glass cartridge fuse; without indicator; 5 x 20 mm; 6.3 A / 250 V; medium-acting

282-451 100

Glass cartridge fuse; without indicator; ¼" x 1¼"; 10 A / 250 V; medium-acting

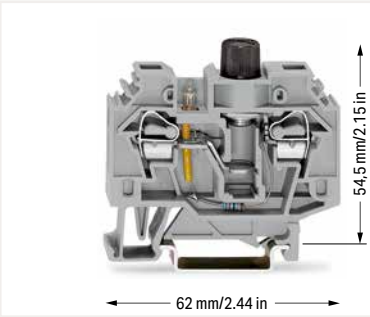
282-457 200 (100)

Glass cartridge fuse; without indicator; ¼" x 1¼"; very fast-acting

282-454 200 (10)

❶ 500 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 14)
Electrical ratings are given by the fuse or LED nominal voltage (see page 292).

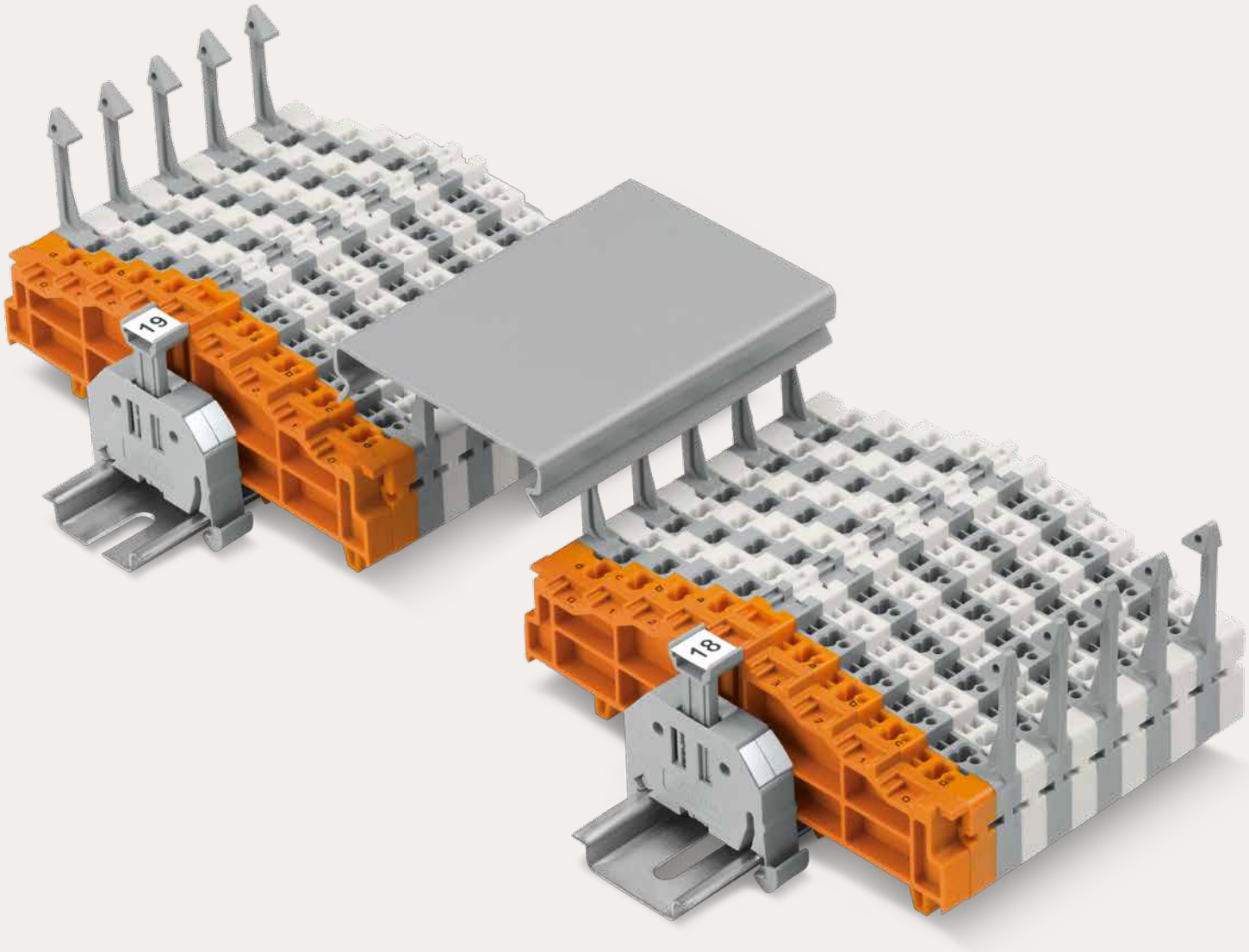
Approvals and corresponding ratings, visit www.wago.com



Dimensions in mm
Item No. 282-124

Dimensions in mm
Item No. 282-128/281-418

10



WAGO Patchboard Systems
WAGO Busbar Terminal Blocks

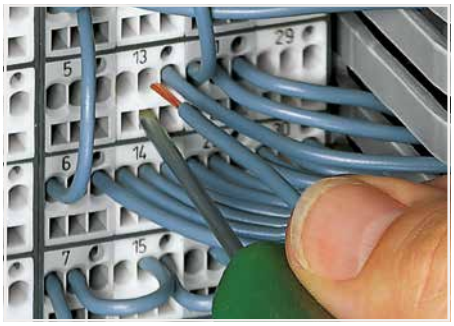
CAGE CLAMP®

WAGO Patchboard Systems
WAGO Busbar Terminal Blocks

			Page
	Matrix Patchboards	726 Series	514
	Common Potential Matrix Patchboards **Marking on the Patchboard Side** **Marking on the Supply Side**	726 Series	518
	Matrix Patchboard Accessories		522
	Terminal Blocks for Matrix Patching and Common Potential Terminal Blocks 1.5 mm² (16 AWG)	727 Series	526
	3-Conductor, Double-Potential Terminal Blocks 2.5 mm² (14 AWG)	280 Series	531
	Busbar Terminal Blocks	812 Series	533

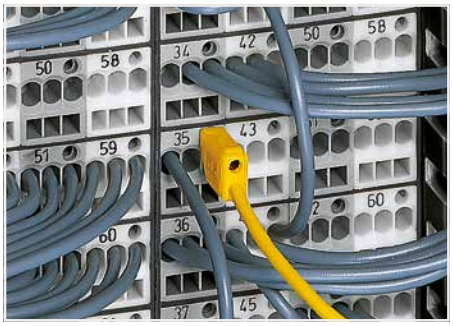
11

Matrix Patchboards
726 Series
Description and Installation

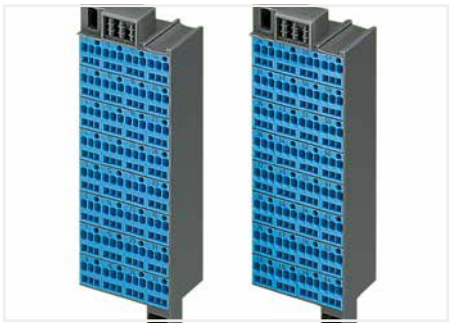


CAGE CLAMP® connection
Inserting a conductor via 210-719 Operating Tool (2.5 x 0.4 mm blade).

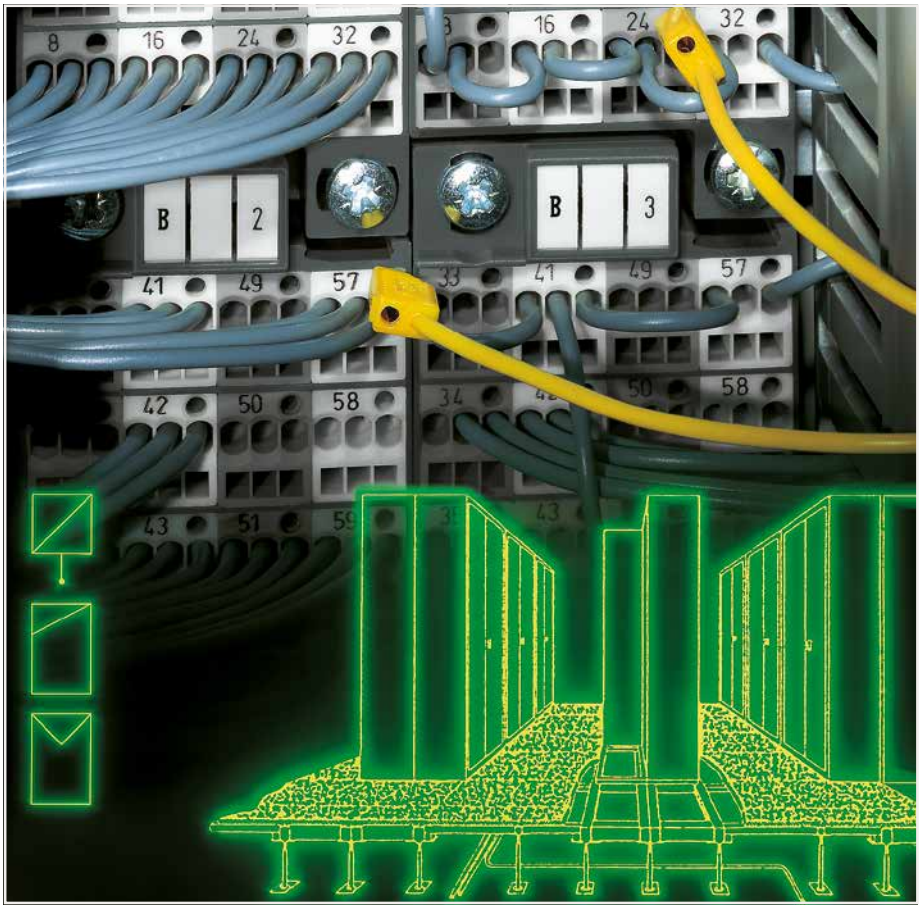
Factory-marked modules
Side 1: 1, 2, 3, 4 ...



Testing with a 2.3 mm Ø test plug (210-137).

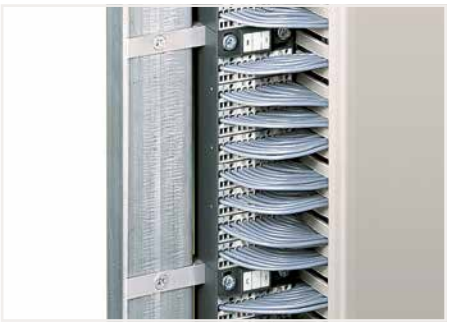


Blue matrix patchboards are suitable for Ex i applications.



WFB continuous marking strip – fits into the matrix patchboards' marker slot and group marker carrier.

Individual group marking via WSB Quick Marking System.



Installation example:
Matrix patchboards in a frame

Installation example:
Matrix patchboards in a 19" rack

CAGE CLAMP® terminates the following copper conductors:
solid

stranded

fine-stranded, also with tinned single strands

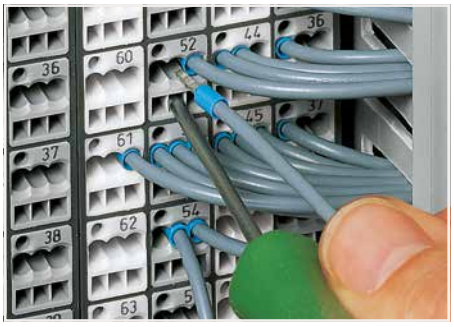
For aluminum conductors, see notes in Section 14.

Space saving:
Slimline matrix patchboard (lower right), mounted upside down

Snapping on an additional module with contact to mounting frame.

Assembling a matrix patchboard with additional module – direct connection to the mounting frame.

	Max. conductor cross section (mm²/AWG) without ferrule	Max. conductor cross section (mm²/AWG) with ferrule			
		insulated		uninsulated	
			Item No./Color		Item No.
Side 2	1.5	0.75	**216-202/** gray	1	**216-103**
Side 1	1.5	0.75	**216-202/** gray	1	**216-103**
Side 2	2.5	1.5	**216-204/** black	1.5	**216-104**
Side 1	1.5	0.75	**216-202/** gray	1	**216-103**



Terminating ferruled conductors via operating tool.

fine-stranded, tip-bonded

fine-stranded, with ferrule (gastight crimped)

fine-stranded, with pin terminal (gastight crimped)

CAGE CLAMP®

Matrix Patchboard; 32-Pole
726 Series

Technical Data	
Side 1: 3x 0.08 … 1.5 mm²	28 … 16 AWG
Side 2: 3x 0.08 … 1.5 mm²	28 … 16 AWG
500 V/6 kV/3 ❶	300 V, 10 A
I_N 10 A	300 V, 10 A
8 … 10 mm / 0.31 … 0.39 inch	

Technical Data	
Side 1: 3x 0.08 … 1.5 mm²	28 … 16 AWG
Side 2: 2x 0.08 … 2.5 mm²	28 … 14 AWG
500 V/6 kV/3 ❶	300 V, 10 A
I_N 10 A	300 V, 10 A
8 … 10 mm / 0.31 … 0.39 inch	

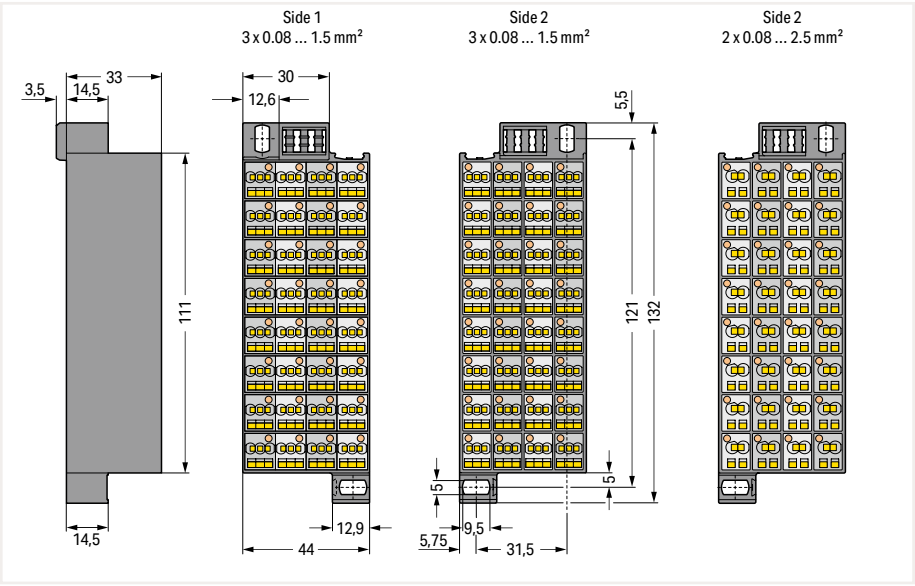
❶ 500 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

❷ Suitable for Ex i applications

See application notes for:
Insulation stop, page 523

Approvals and corresponding ratings, visit www.wago.com

Dimensions in mm



Matrix patchboard; Dark gray frame; Gray/white modules; Vertical module marking on sides 1 and 2; 32-pole		
	Item No.	Pack. Unit
Marking 1 … 32	726-121	20
Marking 33 … 64	726-122	20

Matrix patchboard; Dark gray frame; Gray/white modules; Vertical module marking on sides 1 and 2; 32-pole		
	Item No.	Pack. Unit
Marking 1 … 32	726-221	20
Marking 33 … 64	726-222	20

Matrix patchboard; Dark gray frame; Blue modules; Vertical module marking on sides 1 and 2; 32-pole		
Marking 1 … 32	726-141 ❷	20
Marking 33 … 64	726-142 ❷	20

Matrix patchboard; Dark gray frame; Blue modules; Vertical module marking on sides 1 and 2; 32-pole		
Marking 1 … 32	726-241 ❷	20
Marking 33 … 64	726-242 ❷	20

Accessories; for Matrix Patchboards

Appropriate marking systems: WSB/WFB

Insulation stop; 0.08 … 0.2 mm² “s” (0.14 mm² “f-st”); 4 x 3 pcs/strip

white 726-901 200 (25)

Insulation stop; 0.25 mm² “s”; 0.14 … 0.25 mm² “f-st”; 4 x 3 pcs/strip

light gray 726-906 200 (25)

Insulation stop; 0.25 … 0.5 mm² “s+f-st”; 4 x 3 pcs/strip

dark gray 726-907 200 (25)

Wire commoning chain; insulated; 32 connections; I_N 6 A; max. 50 V; 0.5 mm²

gray 709-107 1

Accessories; for Matrix Patchboards

Appropriate marking systems: WSB/WFB

Test plug; with 500 mm cable; 2.3 mm Ø; max. 42 V

yellow 210-137 50

Group marker carrier for side 2

dark gray 726-902 50

WFB continuous marking strip; 1000 mm long

transparent 210-612 10

Carrier for WFB continuous marking strip; snaps into marker slot

gray 209-185 200 (25)

WSB marker card; white; 10 strips with 10 markers/card; for 5 … 17.5 mm terminal block width

plain 209-501 5

WSB marker card; white; 10 strips with 10 markers/card; horizontal marking

1 … 10 (10x) 209-502 5

WSB marker card; white; 10 strips with 10 markers/card; horizontal marking

1 … 50 (2x) 209-566 5

WSB marker card; white; 10 strips with 10 markers/card; horizontal marking

X (100x) 209-500/209-035 5

Operating tool with a partially insulated shaft; Type 1; (2.5 x 0.4) mm blade

210-719 1

CAGE CLAMP®

Matrix Patchboard; 48-Pole
726 Series

Technical Data	
Side 1: 3x 0.08 … 1.5 mm²	28 … 16 AWG
Side 2: 3x 0.08 … 1.5 mm²	28 … 16 AWG
500 V/6 kV/3 ❶	300 V, 10 A
I_N 10 A	300 V, 10 A
8 … 10 mm / 0.31 … 0.39 inch	

Technical Data	
Side 1: 3x 0.08 … 1.5 mm²	28 … 16 AWG
Side 2: 2x 0.08 … 2.5 mm²	28 … 14 AWG
500 V/6 kV/3 ❶	300 V, 10 A
I_N 10 A	300 V, 10 A
8 … 10 mm / 0.31 … 0.39 inch	

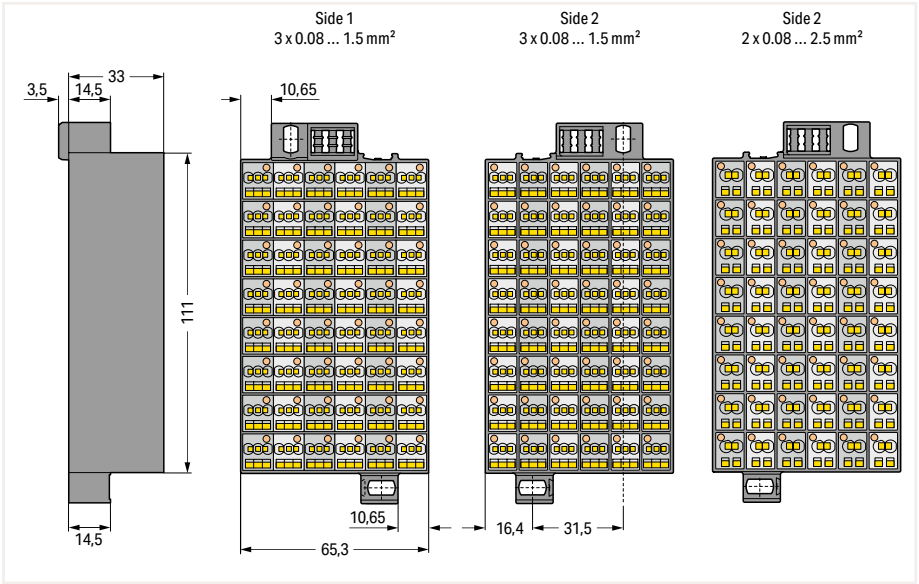
❶ 500 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

❷ Suitable for Ex i applications

See application notes for:
Insulation stop, page 523

Approvals and corresponding ratings, visit www.wago.com

Dimensions in mm



Matrix patchboard; Dark gray frame; Gray/white modules; Vertical module marking on sides 1 and 2; 48-pole

	Item No.	Pack. Unit
Marking 1 … 48	726-421	10

Matrix patchboard; Gray/white modules; Module marking on dark gray frame; Vertical module marking on sides 1 and 2; 48-pole

	Item No.	Pack. Unit
Marking 1 … 48	726-521	10

Matrix patchboard; Dark gray frame; Blue modules; Vertical module marking on sides 1 and 2; 48-pole

Marking 1 … 48	726-441 ❷	10

Matrix patchboard; Dark gray frame; Blue modules; Vertical module marking on sides 1 and 2; 48-pole

Marking 1 … 48	726-541 ❷	10

Accessories; for Matrix Patchboards

Appropriate marking systems: WSB/WFB

Insulation stop; 0.08 … 0.2 mm² “s” (0.14 mm² “f-st”); 4 x 3 pcs/strip

white 726-901 200 (25)

Insulation stop; 0.25 mm² “s”; 0.14 … 0.25 mm² “f-st”; 4 x 3 pcs/strip

light gray 726-906 200 (25)

Insulation stop; 0.25 … 0.5 mm² “s+f-st”; 4 x 3 pcs/strip

dark gray 726-907 200 (25)

Wire commoning chain; insulated; 32 connections; I_N 6 A; max. 50 V; 0.5 mm²

gray 709-107 1

Test plug; with 500 mm cable; 2.3 mm Ø; max. 42 V

yellow 210-137 50

Group marker carrier for side 2

dark gray 726-902 50

Accessories; for Matrix Patchboards

Appropriate marking systems: WSB/WFB

WFB continuous marking strip; 1000 mm long

transparent 210-612 10

Carrier for WFB continuous marking strip; snaps into marker slot

gray 209-185 200 (25)

WSB marker card; white; 10 strips with 10 markers/card; for 5 … 17.5 mm terminal block width

plain 209-501 5

WSB marker card; white; 10 strips with 10 markers/card; horizontal marking

1 … 10 (10x) 209-502 5

WSB marker card; white; 10 strips with 10 markers/card; horizontal marking

1 … 50 (2x) 209-566 5

WSB marker card; white; 10 strips with 10 markers/card; horizontal marking

X (100x) 209-500/209-035 5

Operating tool with a partially insulated shaft; Type 1; (2.5 x 0.4) mm blade

210-719 1

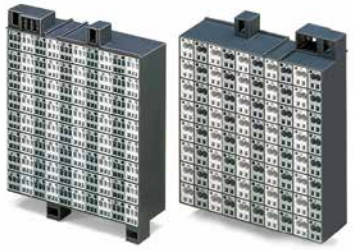
11

CAGE CLAMP®

Matrix Patchboard; 80-Pole
726 Series

Technical Data	
Side 1: 3x 0.08 … 1.5 mm²	28 … 16 AWG
Side 2: 3x 0.08 … 1.5 mm²	28 … 16 AWG
500 V/6 kV/3 ❶	300 V, 10 A
I_N 10 A	300 V, 10 A
8 … 10 mm / 0.31 … 0.39 inch	

Technical Data	
Side 1: 3x 0.08 … 1.5 mm²	28 … 16 AWG
Side 2: 2x 0.08 … 2.5 mm²	28 … 14 AWG
500 V/6 kV/3 ❶	300 V, 10 A
I_N 10 A	300 V, 10 A
8 … 10 mm / 0.31 … 0.39 inch	



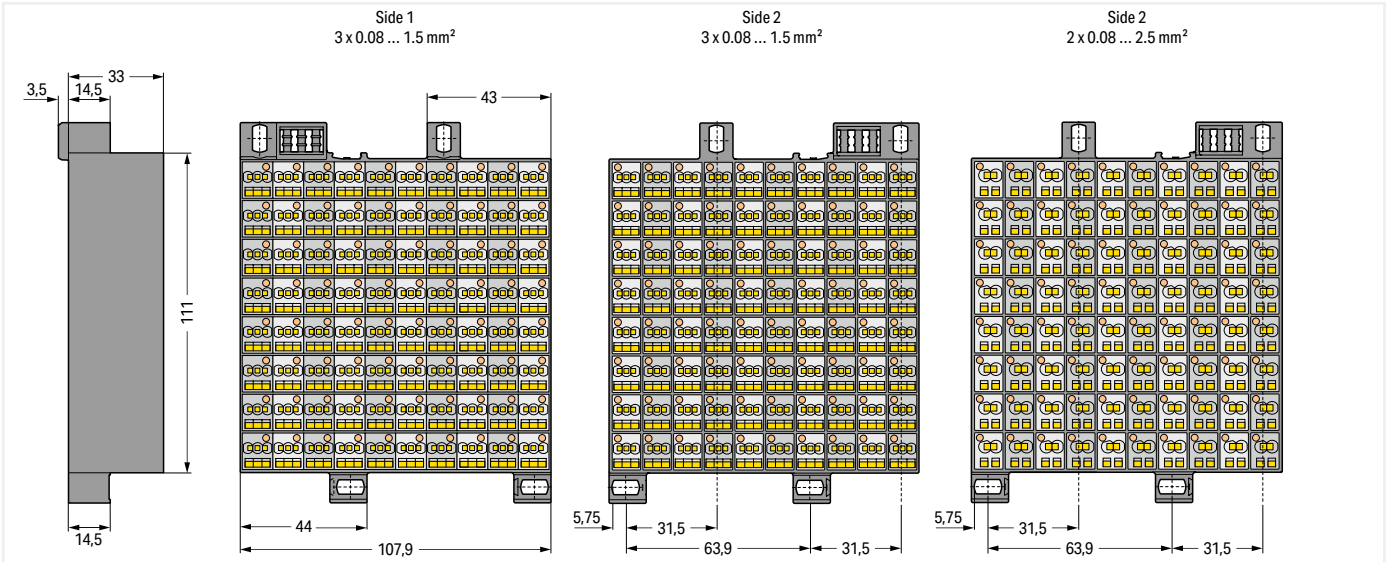
❶ 500 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

❷ Suitable for Ex i applications

See application notes for:
Insulation stop, page 523

Approvals and corresponding ratings, visit www.wago.com

Dimensions in mm



Matrix patchboard; Dark gray frame; Gray/white modules; Vertical module marking on sides 1 and 2; 48-pole		
	Item No.	Pack. Unit
Marking 1 … 80	726-721	8

Matrix patchboard; Dark gray frame; Gray/white modules; Vertical module marking on sides 1 and 2; 48-pole		
	Item No.	Pack. Unit
Marking 1 … 80	726-821	8

Matrix patchboard; Dark gray frame; Blue modules; Vertical module marking on sides 1 and 2; 48-pole		
Marking 1 … 80	726-741 ❷	8

Matrix patchboard; Dark gray frame; Blue modules; Vertical module marking on sides 1 and 2; 48-pole		
Marking 1 … 80	726-841 ❷	8

Accessories; for Matrix Patchboards

Appropriate marking systems: WSB/WFB

Insulation stop; 0.08 … 0.2 mm² "s" (0.14 mm² "f-st"); 4 x 3 pcs/strip

white 726-901 200 (25)

Insulation stop; 0.25 mm² "s"; 0.14 … 0.25 mm² "f-st"; 4 x 3 pcs/strip

light gray 726-906 200 (25)

Insulation stop; 0.25 … 0.5 mm² "s+f-st"; 4 x 3 pcs/strip

dark gray 726-907 200 (25)

WFB continuous marking strip; 1000 mm long

transparent 210-612 10

Carrier for WFB continuous marking strip; snaps into marker slot

gray 209-185 200 (25)

WSB marker card; white; 10 strips with 10 markers/card; for 5 … 17.5 mm terminal block width

plain 209-501 5

Accessories; for Matrix Patchboards

Appropriate marking systems: WSB/WFB

WSB marker card; white; 10 strips with 10 markers/card; horizontal marking

1 … 10 (10x) 209-502 5

WSB marker card; white; 10 strips with 10 markers/card; horizontal marking

1 … 50 (2x) 209-566 5

WSB marker card; white; 10 strips with 10 markers/card; horizontal marking

X (100x) 209-500/209-035 5

Operating tool with a partially insulated shaft; Type 1; (2.5 x 0.4) mm blade

210-719 1

11

CAGE CLAMP®

Matrix Patchboard; Slimline Version; for 19" Racks; 32-Pole
726 Series

Technical Data	
Side 1: 3x 0.08 … 1.5 mm²	28 … 16 AWG
Side 2: 3x 0.08 … 1.5 mm²	28 … 16 AWG
500 V/6 kV/3 ❶	300 V, 10 A
I_N 10 A	300 V, 10 A
8 … 10 mm / 0.31 … 0.39 inch	

Technical Data	
Side 1: 3x 0.08 … 1.5 mm²	28 … 16 AWG
Side 2: 2x 0.08 … 2.5 mm²	28 … 14 AWG
500 V/6 kV/3 ❶	300 V, 10 A
I_N 10 A	300 V, 10 A
8 … 10 mm / 0.31 … 0.39 inch	

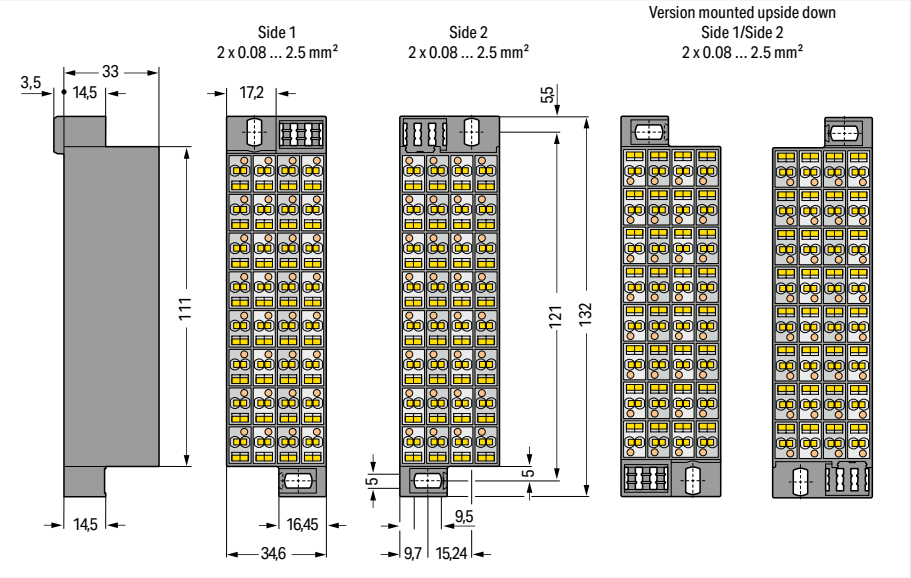
❶ 500 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

❷ Suitable for Ex i applications

See application notes for:
Insulation stop, page 523

Approvals and corresponding ratings, visit www.wago.com

Dimensions in mm



Matrix patchboard; Dark gray frame; Gray/white modules; Vertical module marking on sides 1 and 2; for 19" racks; Slimline version; 32-pole		
	Item No.	Pack. Unit
Marking 1 … 32	726-321	24
Marking 33 … 64	726-322	24

Matrix patchboard; Dark gray frame; Gray/white modules; Vertical module marking on sides 1 and 2; for 19" racks; Slimline version; 32-pole		
	Item No.	Pack. Unit
Marking 1 … 32	726-325	24
Marking 33 … 64	726-326	24

Matrix patchboard; Dark gray frame; Blue modules; Vertical module marking on sides 1 and 2; for 19" racks; Slimline version; 32-pole		
Marking 1 … 32	726-341 ❷	24
Marking 33 … 64	726-342 ❷	24

Matrix patchboard; Dark gray frame; Blue modules; Vertical module marking on sides 1 and 2; for 19" racks; Mounted upside down; Slimline version; 32-pole		
Marking 1 … 32	726-345 ❷	24
Marking 33 … 64	726-346 ❷	24

Accessories; for Matrix Patchboards

Appropriate marking systems: WSB/WFB

Insulation stop; 0.08 … 0.2 mm² "s" (0.14 mm² "f-st"); 4 x 3 pcs/strip

white | 726-901 | 200 (25)

Insulation stop; 0.25 mm² "s"; 0.14 … 0.25 mm² "f-st"; 4 x 3 pcs/strip

light gray | 726-906 | 200 (25)

Insulation stop; 0.25 … 0.5 mm² "s+f-st"; 4 x 3 pcs/strip

dark gray | 726-907 | 200 (25)

Test plug; with 500 mm cable; 2.3 mm Ø; max. 42 V

yellow | 210-137 | 50

Accessories; for Matrix Patchboards

Appropriate marking systems: WSB/WFB

WFB continuous marking strip; 1000 mm long

transparent | 210-612 | 10

Carrier for WFB continuous marking strip; snaps into marker slot

gray | 209-185 | 200 (25)

WSB marker card; white; 10 strips with 10 markers/card; for 5 … 17.5 mm terminal block width

plain | 209-501 | 5

WSB marker card; white; 10 strips with 10 markers/card; horizontal marking

1 … 10 (10x) | 209-502 | 5

WSB marker card; white; 10 strips with 10 markers/card; horizontal marking

1 … 50 (2x) | 209-566 | 5

WSB marker card; white; 10 strips with 10 markers/card; horizontal marking

X (100x) | 209-500/209-035 | 5

Operating tool with a partially insulated shaft; Type 1; (2.5 x 0.4) mm blade

210-719 | 1

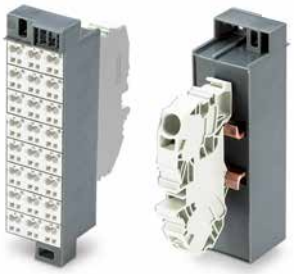
11

Common Potential Matrix Patchboard; Slimline Version; for 19" Racks
726 Series

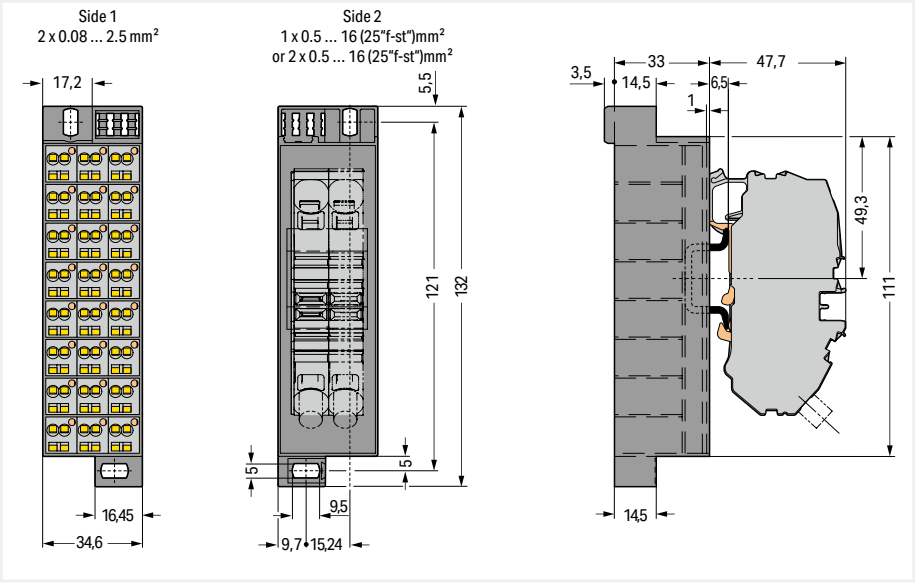
Technical Data	
Side 1: I_N 24 A	
24x 2x 0.08 … 2.5 mm²	28 … 14 AWG
8 … 10 mm / 0.31 … 0.39 inch	
Side 2: I_N 76 A	
1x or 2x 0.5 … 16 (25 "f-st") mm²	20 … 4 AWG
18 … 20 mm / 0.71 … 0.79 inch	

Technical Data	
Side 1: I_N 24 A	
24x 2x 0.08 … 2.5 mm²	28 … 14 AWG
8 … 10 mm / 0.31 … 0.39 inch	
Side 2: I_N 76 A	
1x or 2x 0.5 … 16 (25 "f-st") mm²	20 … 4 AWG
18 … 20 mm / 0.71 … 0.79 inch	

Technical Data	
Side 1:	
24x 2x 0.08 … 2.5 mm²	28 … 14 AWG
8 … 10 mm / 0.31 … 0.39 inch	
Side 2:	
1x or 2x 0.5 … 16 (25 "f-st") mm²	20 … 4 AWG
18 … 20 mm / 0.71 … 0.79 inch	



Dimensions in mm



Common potential matrix patchboard; Dark gray frame; Marking 1 … 24; Gray modules; Vertical module marking; with one supply terminal block incl. end plate; for 19" racks; Slimline version		
	Item No.	Pack. Unit
	726-601	10

Common potential matrix patchboard; Dark gray frame; Marking 1 … 24; White modules; Vertical module marking; with one supply terminal block incl. end plate; for 19" racks; Slimline version		
	Item No.	Pack. Unit
	726-611	10

Common potential matrix patchboard; Dark gray frame; Marking 1 … 24; Green-yellow modules; Vertical module marking; with one supply terminal block incl. end plate; for 19" racks; Slimline version		
	Item No.	Pack. Unit
	726-621	10

Common potential matrix patchboard; Dark gray frame; Marking 1 … 24; Gray modules; Vertical module marking; with two supply terminal blocks incl. end plate; for 19" racks; Slimline version		
	726-602	10

Common potential matrix patchboard; Dark gray frame; Marking 1 … 24; White modules; Vertical module marking; with two supply terminal blocks incl. end plate; for 19" racks; Slimline version		
	726-612	10

Common potential matrix patchboard; Dark gray frame; Marking 1 … 24; Green-yellow modules; Vertical module marking; with two supply terminal blocks incl. end plate; for 19" racks; Slimline version		
	726-622	10

Accessories; item-specific			
Spare supply terminal block; only for use with common potential matrix patchboards (726Series); 16 mm²; 12 mm wide			
	gray	2016-7611	20
End and intermediate plate; 1 mm thick			
	gray	2016-7691	100 (25)
Operating tool with a partially insulated shaft; Type 3; (5.5 x 0.8) mm blade			
		210-721	1

Accessories; item-specific			
Spare supply terminal block; only for use with common potential matrix patchboards (726Series); 16 mm²; 12 mm wide			
	white	2016-7608	20
End and intermediate plate; 1 mm thick			
	gray	2016-7691	100 (25)
Operating tool with a partially insulated shaft; Type 3; (5.5 x 0.8) mm blade			
		210-721	1

Accessories; item-specific			
Ground supply terminal block; 2-conductor ground terminal block; 16 mm²; 12 mm wide			
	green-yellow	2016-7607	20
End and intermediate plate; 1 mm thick			
	gray	2016-7691	100 (25)
Operating tool with a partially insulated shaft; Type 3; (5.5 x 0.8) mm blade			
		210-721	1

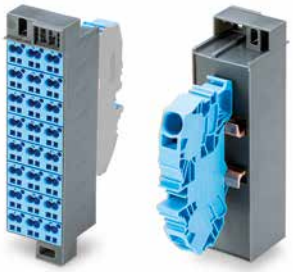
Technical Data

Side 1: I_N 24 A

24x 2x 0.08 … 2.5 mm²	28 … 14 AWG
8 … 10 mm / 0.31 … 0.39 inch	

Side 2: I_N 76 A

1x or 2x 0.5 … 16 (25 “f-st”) mm²	20 … 4 AWG
18 … 20 mm / 0.71 … 0.79 inch	



Common potential matrix patchboard; Dark gray frame; Marking 1 … 24; Blue modules; Vertical module marking; with one supply terminal block incl. end plate; for 19” racks; Slimline version

	Item No.	Pack. Unit
	726-631 ❶	10

Common potential matrix patchboard; Dark gray frame; Marking 1 … 24; Blue modules; Vertical module marking; with two supply terminal blocks incl. end plate; for 19” racks; Slimline version

	Item No.	Pack. Unit
	726-632 ❶	10

Accessories; item-specific

Spare supply terminal block; 2-conductor supply terminal block for distribution boxes; only for use with common potential matrix patchboards (726Series); 16 mm²; 12 mm wide

blue 2016-7614 20

End and intermediate plate; 1 mm thick

gray 2016-7691 100 (25)

❶ Suitable for Ex i applications

See application notes for:
Insulation stop, page 523

Approvals and corresponding ratings, visit www.wago.com

Accessories; for Common Potential Matrix Patchboards

Appropriate marking systems: WSB/WFB

Insulation stop; 0.08 … 0.2 mm² “s” (0.14 mm² “f-st”); 4 x 3 pcs/strip

white 726-901 200 (25)

Insulation stop; 0.25 mm² “s”; 0.14 … 0.25 mm² “f-st”; 4 x 3 pcs/strip

light gray 726-906 200 (25)

Insulation stop; 0.25 … 0.5 mm² “s+f-st”; 4 x 3 pcs/strip

dark gray 726-907 200 (25)

Wire commoning chain; insulated; 32 connections; I_N 6 A; max. 50 V; 0.5 mm²

gray 709-107 1

Test plug; with 500 mm cable; 2.3 mm Ø; max. 42 V

yellow 210-137 50

Group marker carrier for side 2

dark gray 726-902 50

WFB continuous marking strip; 1000 mm long

transparent 210-612 10

Carrier for WFB continuous marking strip; snaps into marker slot

gray 209-185 200 (25)

WSB marker card; white; 10 strips with 10 markers/card; for 5 … 17.5 mm terminal block width

plain 209-501 5

WSB marker card; white; 10 strips with 10 markers/card; horizontal marking

1 … 10 (10x) 209-502 5

WSB marker card; white; 10 strips with 10 markers/card; horizontal marking

1 … 50 (2x) 209-566 5

WSB marker card; white; 10 strips with 10 markers/card; horizontal marking

X (100x) 209-500/209-035 5

Accessories; for Common Potential Matrix Patchboards

Appropriate marking systems: WMB/WMB Inline/WFB

WMB Inline; plain; 1,500 WMB markers (5 mm)/reel; stretchable 5 … 5.2 mm

white 2009-115 1

WMB marker card; white; 10 strips with 10 markers/card; stretchable 5 … 5.2 mm

plain 793-5501 5

WMB marker card; plain; 10 strips with 10 markers/card; stretchable 5 … 5.2 mm

yellow	793-5501/000-002	5
red	793-5501/000-005	5
blue	793-5501/000-006	5
gray	793-5501/000-007	5
orange	793-5501/000-012	5
light green	793-5501/000-017	5
green	793-5501/000-023	5
violet	793-5501/000-024	5

Operating tool with a partially insulated shaft; Type 1; (2.5 x 0.4) mm blade

210-719 1

11

PUSH-IN CAGE CLAMP® CAGE CLAMP®

Common Potential Matrix Patchboard; Slimline Version; for 19" Racks; Supply Side/Patchboard Side

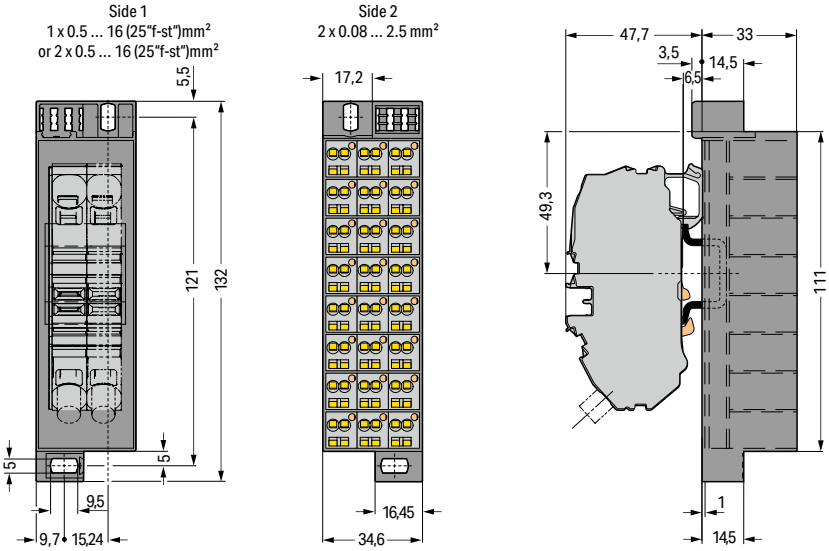
726 Series

Technical Data		
Side 1: I_N 76 A		
1x or 2x 0.5 … 16 (25 "f-st") mm²	20 … 4 AWG	
18 … 20 mm / 0.71 … 0.79 inch		
Side 2: I_N 24 A		
24x 2x 0.08 … 2.5 mm²	28 … 14 AWG	
8 … 10 mm / 0.31 … 0.39 inch		

Technical Data		
Side 1: I_N 76 A		
1x or 2x 0.5 … 16 (25 "f-st") mm²	20 … 4 AWG	
18 … 20 mm / 0.71 … 0.79 inch		
Side 2: I_N 24 A		
24x 2x 0.08 … 2.5 mm²	28 … 14 AWG	
8 … 10 mm / 0.31 … 0.39 inch		

Technical Data		
Side 1:		
1x or 2x 0.5 … 16 (25 "f-st") mm²	20 … 4 AWG	
18 … 20 mm / 0.71 … 0.79 inch		
Side 2:		
24x 2x 0.08 … 2.5 mm²	28 … 14 AWG	
8 … 10 mm / 0.31 … 0.39 inch		

Dimensions in mm



Common potential matrix patchboard; Dark gray frame; with one supply terminal block incl. end plate; Marking 1 … 24; Gray modules; Vertical module marking; ; for 19" racks; Slimline version

Item No.	Pack. Unit
726-651	10

Common potential matrix patchboard; Dark gray frame; with one supply terminal block incl. end plate; Marking 1 … 24; White modules; Vertical module marking; ; for 19" racks; Slimline version

Item No.	Pack. Unit
726-661	10

Common potential matrix patchboard; Dark gray frame; with one supply terminal block incl. end plate; Marking 1 … 24; Green-yellow modules; Vertical module marking; ; for 19" racks; Slimline version

Item No.	Pack. Unit
726-671	10

Common potential matrix patchboard; Dark gray frame; with two supply terminal blocks incl. end plate; Marking 1 … 24; Gray modules; Vertical module marking; for 19" racks; Slimline version

Item No.	Pack. Unit
726-652	10

Common Potential Matrix Patchboard; Dark gray frame; with two supply terminal blocks incl. end plate; Marking 1 … 24; White modules; Vertical module marking; for 19" racks; Slimline version

Item No.	Pack. Unit
726-662	10

Common potential matrix patchboard; Dark gray frame; with two supply terminal blocks incl. end plate; Marking 1 … 24; Green-yellow modules; Vertical module marking; for 19" racks; Slimline version

Item No.	Pack. Unit
726-672	10

Accessories; item-specific

Spare supply terminal block; only for use with common potential matrix patchboards (726Series); 16 mm²; 12 mm wide

gray 2016-7611 20

Accessories; item-specific

Spare supply terminal block; only for use with common potential matrix patchboards (726Series); 16 mm²; 12 mm wide

white 2016-7608 20

Accessories; item-specific

Ground supply terminal block; 2-conductor ground terminal block; 16 mm²; 12 mm wide

green-yellow 2016-7607 20

End and intermediate plate; 1 mm thick

gray 2016-7691 100 (25)

End and intermediate plate; 1 mm thick

gray 2016-7691 100 (25)

End and intermediate plate; 1 mm thick

gray 2016-7691 100 (25)

Operating tool with a partially insulated shaft; Type 3; (5.5 x 0.8) mm blade

210-721 1

Operating tool with a partially insulated shaft; Type 3; (5.5 x 0.8) mm blade

210-721 1

Operating tool with a partially insulated shaft; Type 3; (5.5 x 0.8) mm blade

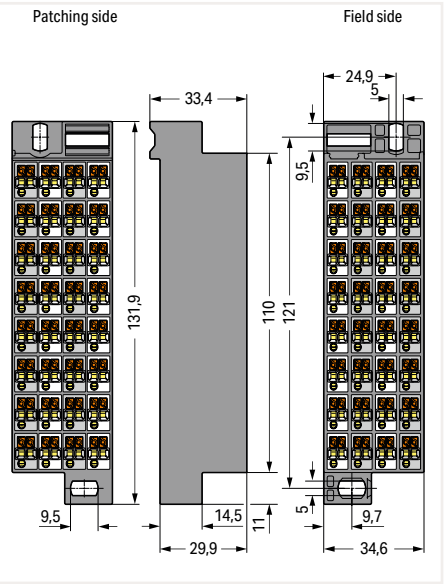
210-721 1

PUSH-IN CAGE CLAMP®

Matrix Patchboard; with Push-Buttons; Slimline Version; for 19" Racks; 32-Pole
726 Series

Technical Data	
Side 1: 32x 0.2 … 1.5 mm² ❶	24 … 16 AWG
Side 2: 32x 0.2 … 1.5 mm² ❶	24 … 16 AWG
800 V/8 kV/3 ❷	300 V, 10 A
I_N 10 A	300 V, 10 A
10 mm / 0.39 inch	

Dimensions in mm



Matrix patchboard; Dark gray frame; Gray/white modules; for 19" racks; Slimline version; 32-pole

	Item No.	Pack. Unit
plain	726-770	30

Matrix patchboard; Dark gray frame; Gray/white modules; Vertical module marking on sides 1 and 2; for 19" racks; Slimline version; 32-pole

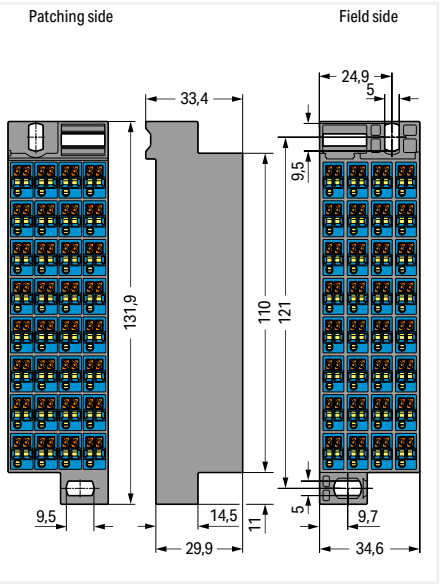
Marking 1 … 32	726-771	30

Matrix patchboard; Dark gray frame; White/gray modules; for 19" racks; Slimline version; 32-pole

plain	726-780	30

Technical Data	
Side 1: 32x 0.2 … 1.5 mm² ❶	24 … 16 AWG
Side 2: 32x 0.2 … 1.5 mm² ❶	24 … 16 AWG
800 V/8 kV/3 ❷	300 V, 10 A
I_N 10 A	300 V, 10 A
10 mm / 0.39 inch	

Dimensions in mm



Matrix patchboard; Dark gray frame; Blue modules; for 19" racks; Slimline version; 32-pole

	Item No.	Pack. Unit
plain	726-800 ❸	30

Matrix patchboard; Dark gray frame; Blue modules; Vertical module marking on sides 1 and 2; for 19" racks; Slimline version; 32-pole

Marking 1 … 32	726-801 ❸	30

Accessories; for Matrix Patchboards

Appropriate marking systems: WMB/WMB Inline/WFB

Wire commoning chain; insulated; 32 connections; I_N 6 A; max. 50 V; 0.5 mm²

gray	709-107	1

WMB marker card; white; 10 strips with 10 markers/card; stretchable 5 … 5.2 mm

plain	793-5501	5

WMB Inline; plain; 1,500 WMB markers (5 mm)/reel; stretchable 5 … 5.2 mm

white	2009-115	1

❶ Conductor range: 0.2 … 1.5 mm² "s+f-st" and 0.25 … 1 mm² "insulated ferrules; 10 mm"

❷ 800 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

❸ Suitable for Ex i applications

See application notes for:
Marking, from page 588

Approvals and corresponding ratings, visit www.wago.com

Accessories; for Matrix Patchboards

Appropriate marking systems: WMB/WMB Inline/WFB

WMB marker card; plain; 10 strips with 10 markers/card; stretchable 5 … 5.2 mm

yellow	793-5501/000-002	5
red	793-5501/000-005	5
blue	793-5501/000-006	5
gray	793-5501/000-007	5
orange	793-5501/000-012	5
light green	793-5501/000-017	5
green	793-5501/000-023	5
violet	793-5501/000-024	5

Operating tool with a partially insulated shaft; Type 1; (2.5 x 0.4) mm blade

	210-719	1

Test probe; 2 mm Ø; min. 12 mm lon; uninsulated tip; not offered by WAGO (e.g., MultiContact XPP-80/2-16)

11

CAGE CLAMP®

Additional Module for Matrix Patchboards
726 Series

Technical Data	
0.08 … 4 mm²	28 … 14 AWG
0.08 … 2.5 mm²	28 … 14 AWG
500 V/6 kV/3 ❶	300 V, 10 A
I_N 10 A	
9 mm / 0.35 inch	

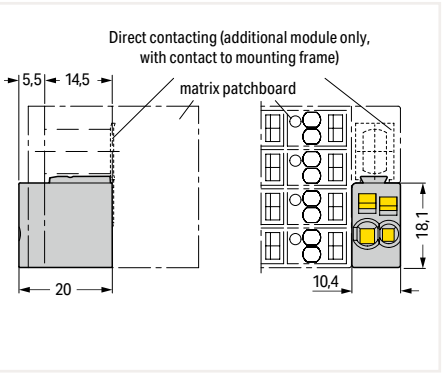
❶ 500 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

❷ Suitable for Ex i applications

See application notes for:
Insulation stop, page 523

Approvals and corresponding ratings, visit www.wago.com

Dimensions in mm



Additional module for matrix patchboard; for snap-on mounting to the lower mounting adapter; with CAGE CLAMP®; Additional module with contact to the mounting frame		
Color	Item No.	Pack. Unit
○ white	726-903	25

Additional module for matrix patchboards; snaps onto the lower mounting adapter; with CAGE CLAMP®; insulated		
○ gray	726-904	25

Snapping on an additional module with contact to mounting frame.

Assembling a matrix patchboard with additional module – direct connection to the mounting frame.

11

CAGE CLAMP®

Insulation Stop; for Matrix Patchboard
726 Series

Suitable for patchboard side (side 1) of 1.5 mm² matrix patchboards (front side differs from back side)

Insulation stop; 0.08 … 0.2 mm² “s” (0.14 mm² “f-st”); 4 x 3 pcs/strip		
Color	Item No.	Pack. Unit
○ white	**726-901**	200 (25)

Insulation stop; 0.25 mm² “s”; 0.14 … 0.25 mm² “f-st”; 4 x 3 pcs/strip		
○ gray	**726-906**	200 (25)

Insulation stop; 0.25 … 0.5 mm² “s+f-st”; 4 x 3 pcs/strip		
● dark gray	**726-907**	200 (25)

Inserting an insulation stop into conductor entry holes of matrix patchboards.

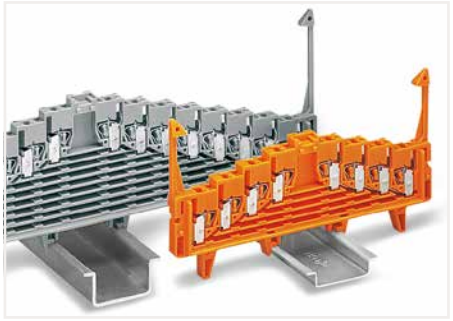
Mounted insulation stop

11

Terminal Blocks for Matrix Patching and Common Potential Terminal Blocks
727 Series
Description and Installation

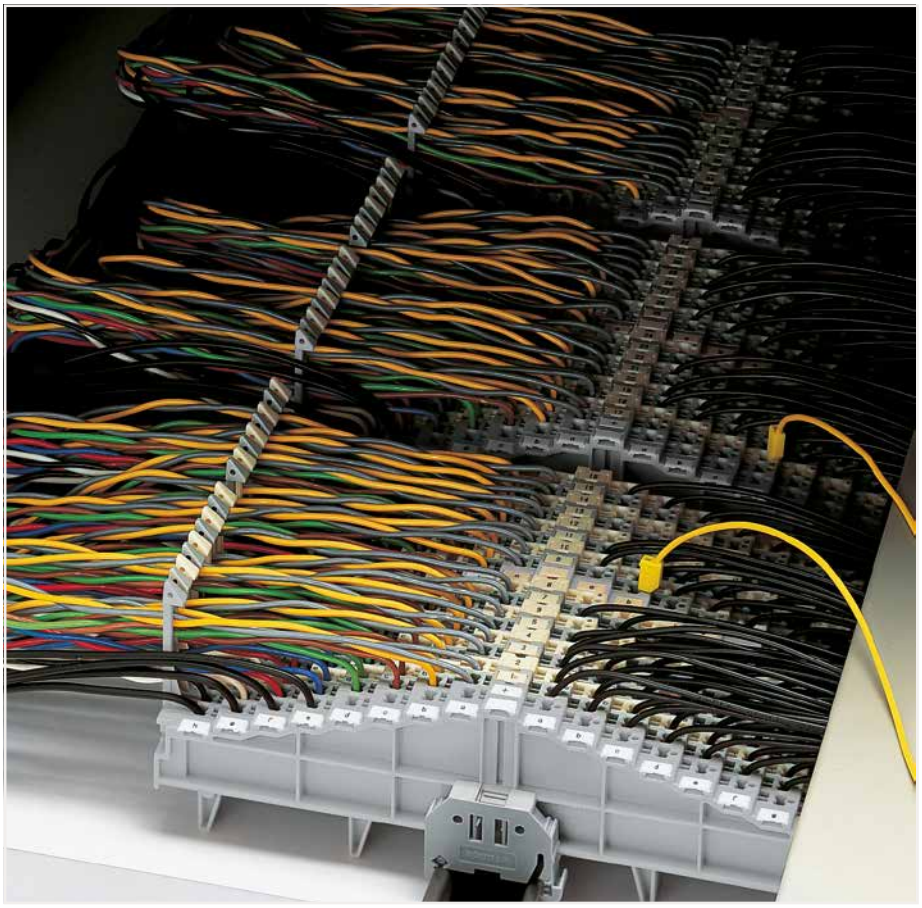
Snap individual 4- or 8-level terminal blocks onto the DIN-rail.

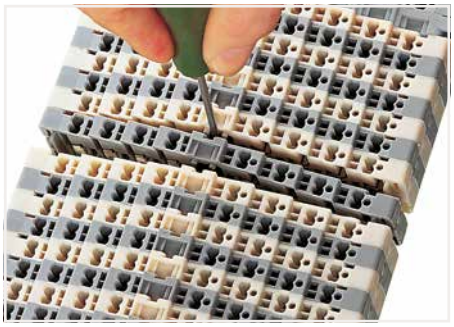
Slide terminal blocks together.



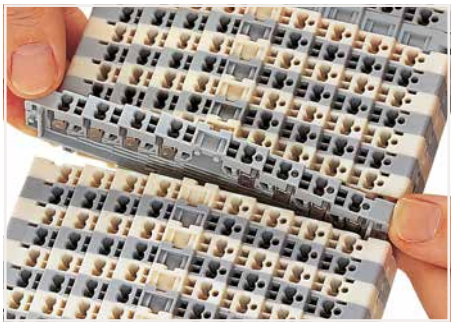
Terminal blocks for DIN-35 x 7.5 mm or DIN-35 x 15 mm rails are available.

Grip end plate at both sides and:
- push down (assembly)
- pull up (removal)

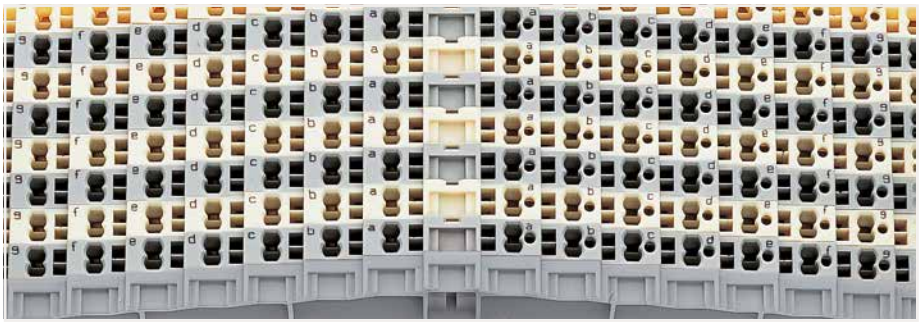




Open the assembly by laterally sliding a block via operating tool (2.5 x 0.4 mm blade).



Slide terminal block and remove from the rail with a levering action.



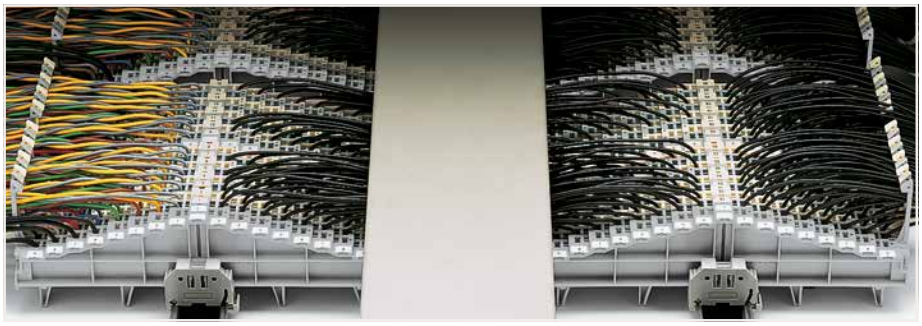
Connection points identified via factory-direct printing

CAGE CLAMP® terminates the following copper conductors:
solid

stranded

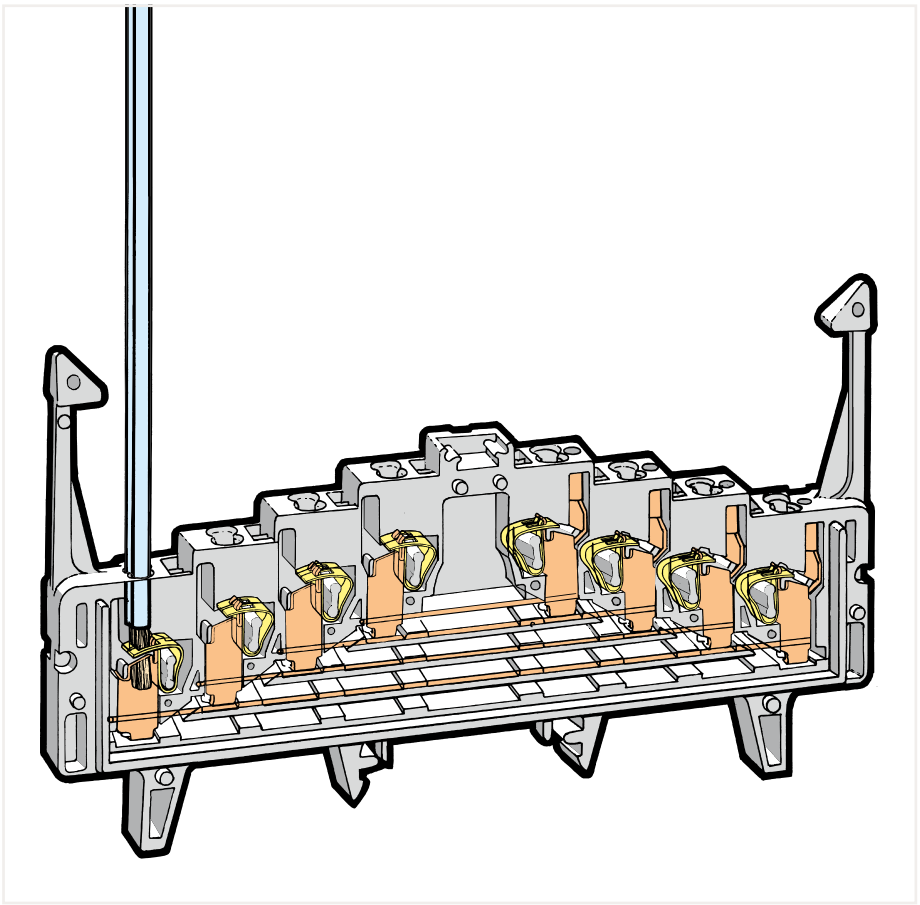
fine-stranded, also with tinned single strands

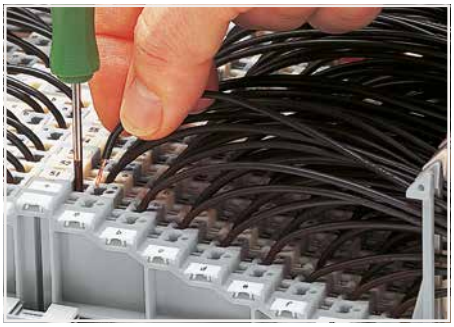
For aluminum conductors, see notes in Section 14.



Example:
Left: Main cables fed through locking clips on the field side
Right: Control cables fed between locking clips
Center: Wiring of both patching sides

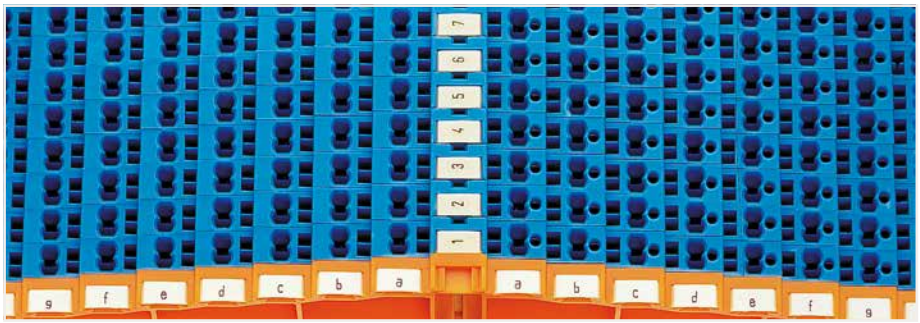
Using terminal blocks with locking clips, the wiring space between the terminal strips can be covered with a wiring duct cover.



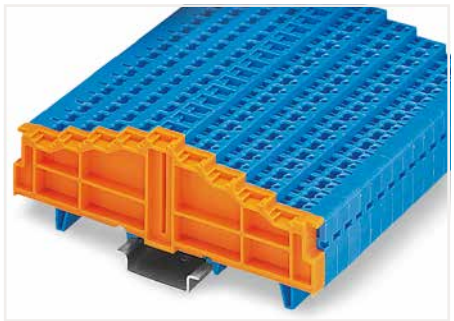


CAGE CLAMP® connection
Inserting a conductor via 210-719 Operating Tool (2.5 x 0.4 mm blade).
Max. cross section for uninsulated ferrules 1 mm² (18 AWG), for insulated ferrules 0.75 mm² (20 AWG)

Special test contact for 2.3 mm Ø test plug



Marking coordinates via WMB Multi Marking System.



Blue terminal blocks for matrix patching are suitable for Ex i applications.

fine-stranded, tip-bonded

fine-stranded, with ferrule (gastight crimped)

fine-stranded, with pin terminal (gastight crimped)

CAGE CLAMP®

4-Level Terminal Block for Matrix Patching
1.5 mm²; 727 Series

Technical Data	
0.08 … 1.5 mm²	28 … 16 AWG
250 V/4 kV/3 ❶	300 V, 10 A
I_N 12 A	300 V, 10 A
Terminal block width: 7.62 mm / 0.3 inch	
8 … 10 mm / 0.31 … 0.39 inch	

4-level terminal block for matrix patching; with locking clips; no marking; 4 x pairs of clamping units on the same level; for DIN 35 x 7.5 rail		
Color	Item No.	Pack. Unit
gray	727-219	50
white	727-221	50
blue	727-223 ❷	50

4-level terminal block for matrix patching; with locking clips; no marking; 4 x pairs of clamping units on the same level; for DIN 35 x 15 rail		
gray	727-229	50
white	727-231	50
blue	727-233 ❷	50

Item no. suffixes for terminal blocks with marking:	
0-1-2-3--3-2-1-0	…/021-000
a-b-c-d--d-c-b-a	…/022-000
3-2-1-0--0-1-2-3	…/023-000
d-c-b-a--a-b-c-d	…/024-000

Accessories; 727 Series

Appropriate marking system: WMB

4-level end plate; no marking; 7.62 mm thick

orange	727-217	25
gray	727-213	25

4-level end plate; Marking: 0-1-2-3--3-2-1-0; 7.62 mm thick

orange	727-205	25
gray	727-255	25

4-level end plate; Marking: a-b-c-d--d-c-b-a; 7.62 mm thick

orange	727-206	25
gray	727-256	25

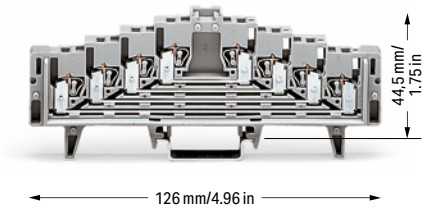
4-level end plate; Marking: 3-2-1-0--0-1-2-3; 7.62 mm thick

orange	727-207	25
gray	727-257	25

4-level end plate; Marking: d-c-b-a--a-b-c-d; 7.62 mm thick

orange	727-208	25
gray	727-258	25

Technical Data	
0.08 … 1.5 mm²	28 … 16 AWG
250 V/4 kV/3 ❶	300 V, 10 A
I_N 12 A	300 V, 10 A
Terminal block width: 7.62 mm / 0.3 inch	
8 … 10 mm / 0.31 … 0.39 inch	



4-level terminal block for matrix patching; without locking clips; no marking; 4 x pairs of clamping units on the same level; for DIN 35 x 7.5 rail		
Color	Item No.	Pack. Unit
gray	727-220	50
white	727-222	50
blue	727-224 ❷	50

4-level terminal block for matrix patching; without locking clips; no marking; 4 x pairs of clamping units on the same level; for DIN 35 x 15 rail		
gray	727-230	50
white	727-232	50
blue	727-234 ❷	50

Other terminal blocks with the same profile:	
0-1-2-3--3-2-1-0	…/021-000
a-b-c-d--d-c-b-a	…/022-000
3-2-1-0--0-1-2-3	…/023-000
d-c-b-a--a-b-c-d	…/024-000

Insulation stop; 0.08 … 0.2 mm² "s" (0.14 mm² "f-st"); 8 pcs/strip

white	727-197	200 (25)

Insulation stop; 0.25 mm² "s"; 0.14 … 0.25 mm² "f-st"); 8 pcs/strip

light gray	727-198	200 (25)

Insulation stop; 0.25 … 0.5 mm² "s+f-st"; 8 pcs/strip

dark gray	727-199	200 (25)

Wire commoning chain; insulated; 32 connections; I_N 6 A; max. 50 V; 0.5 mm²

gray	709-107	1

Test plug; with 500 mm cable; 2.3 mm Ø; max. 42 V

yellow	210-137	50

❶ 250 V = rated voltage
4 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

❷ Terminal blocks with a blue insulated housing are suitable for Ex i applications.
60 V = peak value ^ (table 4, EN 60079-11 when approved by the manufacturer's authorized inspection representative

See application notes for:
Wire harness support, page 530
Marking, from page 588

Approvals and corresponding ratings, visit www.wago.com

Accessories; 727 Series

Appropriate marking systems: WMB

Step-down test plug; from 4 mm socket to 2 mm plug; max. 42 V

red	210-297	100 (25)

Wire harness support

gray	249-109	50

Double marker carrier; for center I/O module marking; for WSB and WMB marking systems; 4 mm wide

gray	209-128	200 (100)

Screwless end stop; for DIN-35 rail; 6 mm wide

gray	249-116	100 (25)

Screwless end stop; for DIN-35 rail; 10 mm wide

gray	249-117	50 (25)

Operating tool with a partially insulated shaft; Type 1; (2.5 x 0.4) mm blade

	210-719	1

11

CAGE CLAMP®

4-Level Common Potential Terminal Block
1.5 mm²; 727 Series

Technical Data	
0.08 … 1.5 mm²	28 … 16 AWG
250 V/4 kV/3 ❶	300 V, 10 A
I_N 18 A	300 V, 10 A
Terminal block width: 7.62 mm / 0.3 inch	
8 … 10 mm / 0.31 … 0.39 inch	

4-level common potential terminal block; with locking clips; no marking; all clamping units connected to the same current bar; for DIN 35 x 7.5 rail

Color	Item No.	Pack. Unit
orange	727-225	50
light gray	727-227	50

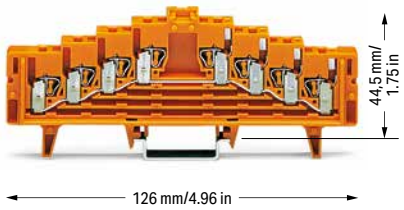
4-level common potential terminal block; with locking clips; no marking; all clamping units connected to the same current bar; for DIN 35 x 15 rail

orange	727-235	50
light gray	727-237	50

Item no. suffixes for terminal blocks with marking:

0-1-2-3--3-2-1-0	.../021-000
a-b-c-d--d-c-b-a	.../022-000
3-2-1-0--0-1-2-3	.../023-000
d-c-b-a--a-b-c-d	.../024-000

Technical Data	
0.08 … 1.5 mm²	28 … 16 AWG
250 V/4 kV/3 ❶	300 V, 10 A
I_N 18 A	300 V, 10 A
Terminal block width: 7.62 mm / 0.3 inch	
8 … 10 mm / 0.31 … 0.39 inch	



4-level terminal block for matrix patching; without locking clips; no marking; all clamping units connected to the same current bar; for DIN 35 x 7.5 rail

Color	Item No.	Pack. Unit
orange	727-226	50
light gray	727-228	50

4-level terminal block for matrix patching; without locking clips; no marking; all clamping units connected to the same current bar; for DIN 35 x 15 rail

orange	727-236	50
light gray	727-238	50

Other terminal blocks with the same profile:

0-1-2-3--3-2-1-0	.../021-000
a-b-c-d--d-c-b-a	.../022-000
3-2-1-0--0-1-2-3	.../023-000
d-c-b-a--a-b-c-d	.../024-000

❶ 250 V = rated voltage
4 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

See application notes for:
Wire harness support, page 530
Marking, from page 588

Approvals and corresponding ratings, visit www.wago.com

Accessories; 727 Series

Appropriate marking system: WMB

4-level end plate; no marking; 7.62 mm thick

orange	727-217	25
gray	727-213	25

4-level end plate; Marking: 0-1-2-3--3-2-1-0; 7.62 mm thick

orange	727-205	25
gray	727-255	25

4-level end plate; Marking: a-b-c-d--d-c-b-a; 7.62 mm thick

orange	727-206	25
gray	727-256	25

4-level end plate; Marking: 3-2-1-0--0-1-2-3; 7.62 mm thick

orange	727-207	25
gray	727-257	25

4-level end plate; Marking: d-c-b-a--a-b-c-d; 7.62 mm thick

orange	727-208	25
gray	727-258	25

Insulation stop; 0.08 … 0.2 mm² "s" (0.14 mm² "f-st"); 8 pcs/strip

white	727-197	200 (25)

Insulation stop; 0.25 mm² "s"; 0.14 … 0.25 mm² "f-st"); 8 pcs/strip

light gray	727-198	200 (25)

Insulation stop; 0.25 … 0.5 mm² "s+f-st"; 8 pcs/strip

dark gray	727-199	200 (25)

Wire commoning chain; insulated; 32 connections; I_N 6 A; max. 50 V; 0.5 mm²

gray	709-107	1

Test plug; with 500 mm cable; 2.3 mm Ø; max. 42 V

yellow	210-137	50

Step-down test plug; from 4 mm socket to 2 mm plug; max. 42 V

red	210-297	100 (25)

Wire harness support

gray	249-109	50

Accessories; 727 Series

Appropriate marking systems: WMB

Double marker carrier; for center I/O module marking; for WSB and WMB marking systems; 4 mm wide

gray	209-128	200 (100)

Screwless end stop; for DIN-35 rail; 6 mm wide

gray	249-116	100 (25)

Screwless end stop; for DIN-35 rail; 10 mm wide

gray	249-117	50 (25)

Operating tool with a partially insulated shaft; Type 1; (2.5 x 0.4) mm blade

210-719	1

11

8-Level Terminal Block for Matrix Patching
1.5 mm²; 727 Series

Technical Data	
0.08 … 1.5 mm²	28 … 16 AWG
250 V/4 kV/3 ❶	300 V, 10 A
I_N 12 A	300 V, 10 A
Terminal block width: 7.62 mm / 0.3 inch	
8 … 10 mm / 0.31 … 0.39 inch	

Technical Data	
0.08 … 1.5 mm²	28 … 16 AWG
250 V/4 kV/3 ❶	300 V, 10 A
I_N 12 A	300 V, 10 A
Terminal block width: 7.62 mm / 0.3 inch	
8 … 10 mm / 0.31 … 0.39 inch	

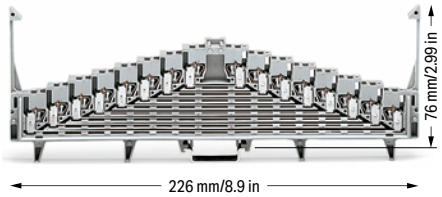
❶ 250 V = rated voltage
4 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

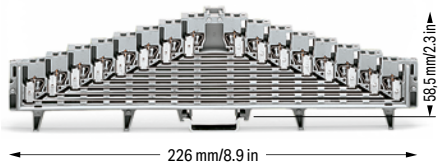
❷ Terminal blocks with a blue insulated housing are suitable for Ex i applications.
60 V = peak value ^ (table 4, EN 60079-11 when approved by the manufacturer's authorized inspection representative

See application notes for:
Wire harness support, page 530
Marking, from page 588

Note: Only combine terminal blocks and end plates that are colored **gray/white/light gray** or **orange/blue**!

Approvals and corresponding ratings, visit www.wago.com





8-level terminal block for matrix patching; with locking clips; no marking; 8 x pairs of clamping units on the same level; for DIN 35 x 7.5 rail

Color	Item No.	Pack. Unit
gray	727-119	25
white	727-121	25
blue	727-123 ❷	25

8-level terminal block for matrix patching; without locking clips; no marking; 8 x pairs of clamping units on the same level; for DIN 35 x 7.5 rail

Color	Item No.	Pack. Unit
gray	727-120	25
white	727-122	25
blue	727-124 ❷	25

8-level terminal block for matrix patching; with locking clips; no marking; 8 x pairs of clamping units on the same level; for DIN 35 x 15 rail

gray	727-129	25
white	727-131	25
blue	727-133 ❷	25

8-level terminal block for matrix patching; without locking clips; no marking; 8 x pairs of clamping units on the same level; for DIN 35 x 15 rail

gray	727-130	25
white	727-132	25
blue	727-134 ❷	25

Item no. suffixes for terminal blocks with marking:

0-1-2-3-4-5-6-7--7-6-5-4-3-2-1-0	.../001-000
a-b-c-d-e-f-g-h--h-g-f-e-d-c-b-a	.../002-000
7-6-5-4-3-2-1-0--0-1-2-3-4-5-6-7	.../003-000
h-g-f-e-d-c-b-a--a-b-c-d-e-f-g-h	.../004-000

Other terminal blocks with the same profile:

0-1-2-3-4-5-6-7--7-6-5-4-3-2-1-0	.../001-000
a-b-c-d-e-f-g-h--h-g-f-e-d-c-b-a	.../002-000
7-6-5-4-3-2-1-0--0-1-2-3-4-5-6-7	.../003-000
h-g-f-e-d-c-b-a--a-b-c-d-e-f-g-h	.../004-000

Accessories; 727 Series

Appropriate marking system: WMB

4-level end plate; no marking; 7.62 mm thick

orange	727-117	25
gray	727-113	25
blue	727-114	25
white	727-115	25
light gray	727-116	25

4-level end plate; Marking: 0-1-2-3-4-5-6-7--7-6-5-4-3-2-1-0; 7.62 mm thick

orange	727-105	25
gray	727-155	25
blue	727-159	25
white	727-163	25
light gray	727-167	25

4-level end plate; Marking: a-b-c-d-e-f-g-h--h-g-f-e-d-c-b-a; 7.62 mm thick

orange	727-106	25
gray	727-156	25
blue	727-160	25
white	727-164	25
light gray	727-168	25

4-level end plate; Marking: 7-6-5-4-3-2-1-0--0-1-2-3-4-5-6-7; 7.62 mm thick

orange	727-107	25
gray	727-157	25
blue	727-161	25
white	727-165	25
light gray	727-169	25

4-level end plate; Marking: h-g-f-e-d-c-b-a--a-b-c-d-e-f-g-h; 7.62 mm thick

orange	727-108	25
gray	727-158	25
blue	727-162	25
white	727-166	25
light gray	727-170	25

Insulation stop; 0.08 … 0.2 mm² "s" (0.14 mm² "f-st"); 8 pcs/strip

white	727-197	200 (25)

Insulation stop; 0.25 mm² "s"; 0.14 … 0.25 mm² "f-st"); 8 pcs/strip

light gray	727-198	200 (25)

Accessories; 727 Series

Appropriate marking systems: WMB

Insulation stop; 0.25 … 0.5 mm² "s+f-st"; 8 pcs/strip

dark gray	727-199	200 (25)

Wire commoning chain; insulated; 32 connections; I_N 6 A; max. 50 V; 0.5 mm²

gray	709-107	1

Test plug; with 500 mm cable; 2.3 mm Ø; max. 42 V

yellow	210-137	50

Step-down test plug; from 4 mm socket to 2 mm plug; max. 42 V

red	210-297	100 (25)

Wire harness support

gray	249-109	50

Double marker carrier; for center I/O module marking; for WSB and WMB marking systems; 4 mm wide

gray	209-128	200 (100)

WMB marker card; white; 10 strips with 10 markers/card; for PLC input marking; for 5 … 17.5 mm terminal block width

E0.0, E0.1, …, E9.6, E9.7 (1x each)	793-933	5

Screwless end stop; for DIN-35 rail; 6 mm wide

gray	249-116	100 (25)

Screwless end stop; for DIN-35 rail; 10 mm wide

gray	249-117	50 (25)

Operating tool with a partially insulated shaft; Type 1; (2.5 x 0.4) mm blade

	210-719	1

CAGE CLAMP®

8-Level Common Potential Terminal Block
1.5 mm²; 727 Series

Technical Data	
0.08 … 1.5 mm²	28 … 16 AWG
250 V/4 kV/3 ❶	300 V, 10 A
I_N 18 A	300 V, 10 A
Terminal block width: 7.62 mm / 0.3 inch	
8 … 10 mm / 0.31 … 0.39 inch	

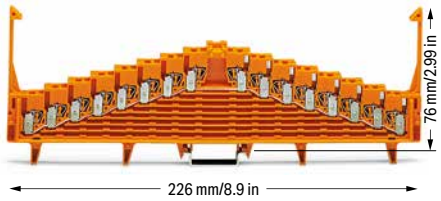
Technical Data	
0.08 … 1.5 mm²	28 … 16 AWG
250 V/4 kV/3 ❶	300 V, 10 A
I_N 18 A	300 V, 10 A
Terminal block width: 7.62 mm / 0.3 inch	
8 … 10 mm / 0.31 … 0.39 inch	

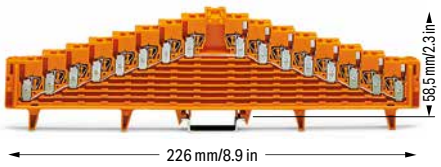
❶ 250 V = rated voltage
4 kV = rated impulse voltage
3 = pollution degree
(see Section 14)

See application notes for:
Wire harness support, page 530
Marking, from page 588

Note: Only combine terminal blocks and end plates that are colored **gray/white/light gray** or **orange/blue**!

Approvals and corresponding ratings, visit www.wago.com





8-level common potential terminal block; with locking clips; no marking; all clamping units connected to the same current bar; for DIN 35 x 7.5 rail

Color	Item No.	Pack. Unit
orange	727-125	25
light gray	727-127	25

8-level terminal block for matrix patching; without locking clips; no marking; all clamping units connected to the same current bar; for DIN 35 x 7.5 rail

Color	Item No.	Pack. Unit
orange	727-126	25
light gray	727-128	25

8-level common potential terminal block; with locking clips; no marking; all clamping units connected to the same current bar; for DIN 35 x 15 rail

orange	727-135	25
light gray	727-137	25

8-level terminal block for matrix patching; without locking clips; no marking; all clamping units connected to the same current bar; for DIN 35 x 15 rail

orange	727-136	25
light gray	727-138	25

Item no. suffixes for terminal blocks with marking:	
0-1-2-3-4-5-6-7--7-6-5-4-3-2-1-0	…/001-000
a-b-c-d-e-f-g-h--h-g-f-e-d-c-b-a	…/002-000
7-6-5-4-3-2-1-0--0-1-2-3-4-5-6-7	…/003-000
h-g-f-e-d-c-b-a--a-b-c-d-e-f-g-h	…/004-000

Other terminal blocks with the same profile:	
0-1-2-3-4-5-6-7--7-6-5-4-3-2-1-0	…/001-000
a-b-c-d-e-f-g-h--h-g-f-e-d-c-b-a	…/002-000
7-6-5-4-3-2-1-0--0-1-2-3-4-5-6-7	…/003-000
h-g-f-e-d-c-b-a--a-b-c-d-e-f-g-h	…/004-000

Accessories; 727 Series

Appropriate marking system: WMB

4-level end plate; no marking; 7.62 mm thick

orange	727-117	25
gray	727-113	25
blue	727-114	25
white	727-115	25
light gray	727-116	25

4-level end plate; Marking: 0-1-2-3-4-5-6-7--7-6-5-4-3-2-1-0; 7.62 mm thick

orange	727-105	25
gray	727-155	25
blue	727-159	25
white	727-163	25
light gray	727-167	25

4-level end plate; Marking: a-b-c-d-e-f-g-h--h-g-f-e-d-c-b-a; 7.62 mm thick

orange	727-106	25
gray	727-156	25
blue	727-160	25
white	727-164	25
light gray	727-168	25

4-level end plate; Marking: 7-6-5-4-3-2-1-0--0-1-2-3-4-5-6-7; 7.62 mm thick

orange	727-107	25
gray	727-157	25
blue	727-161	25
white	727-165	25
light gray	727-169	25

4-level end plate; Marking: h-g-f-e-d-c-b-a--a-b-c-d-e-f-g-h; 7.62 mm thick

orange	727-108	25
gray	727-158	25
blue	727-162	25
white	727-166	25
light gray	727-170	25

Insulation stop; 0.08 … 0.2 mm² “s” (0.14 mm² “f-st”); 8 pcs/strip

white	727-197	200 (25)

Insulation stop; 0.25 mm² “s”; 0.14 … 0.25 mm² “f-st”); 8 pcs/strip

light gray	727-198	200 (25)

Insulation stop; 0.25 … 0.5 mm² “s+f-st”; 8 pcs/strip

dark gray	727-199	200 (25)

Wire commoning chain; insulated; 32 connections; I_N 6 A; max. 50 V; 0.5 mm²

gray	709-107	1

Accessories; 727 Series

Appropriate marking systems: WMB

Test plug; with 500 mm cable; 2.3 mm Ø; max. 42 V

yellow	210-137	50

Step-down test plug; from 4 mm socket to 2 mm plug; max. 42 V

red	210-297	100 (25)

Wire harness support

gray	249-109	50

Double marker carrier; for center I/O module marking; for WSB and WMB marking systems; 4 mm wide

gray	209-128	200 (100)

Screwless end stop; for DIN-35 rail; 6 mm wide

gray	249-116	100 (25)

Screwless end stop; for DIN-35 rail; 10 mm wide

gray	249-117	50 (25)

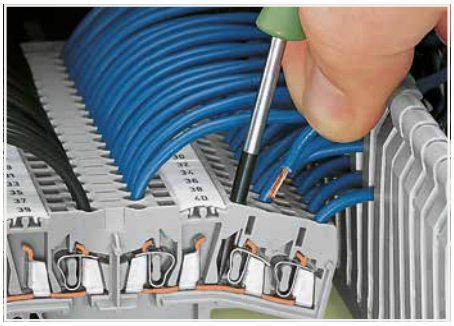
Operating tool with a partially insulated shaft; Type 1; (2.5 x 0.4) mm blade

	210-719	1

11

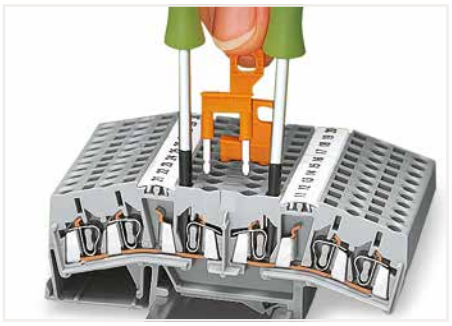
CAGE CLAMP®

Terminal Blocks for Matrix Patching
280 Series
Description and Installation

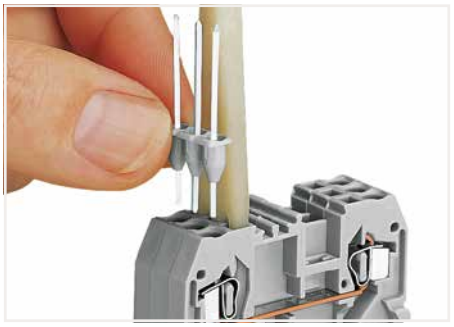


Terminal blocks for matrix patching:
Inserting/removing a conductor on the terminal block's side-entry.
With ferruled conductors, it is necessary to use a terminal block one size smaller than the conductor's nominal cross section.

Terminal blocks for matrix patching:
Inserting/removing a conductor in the terminal block's center.

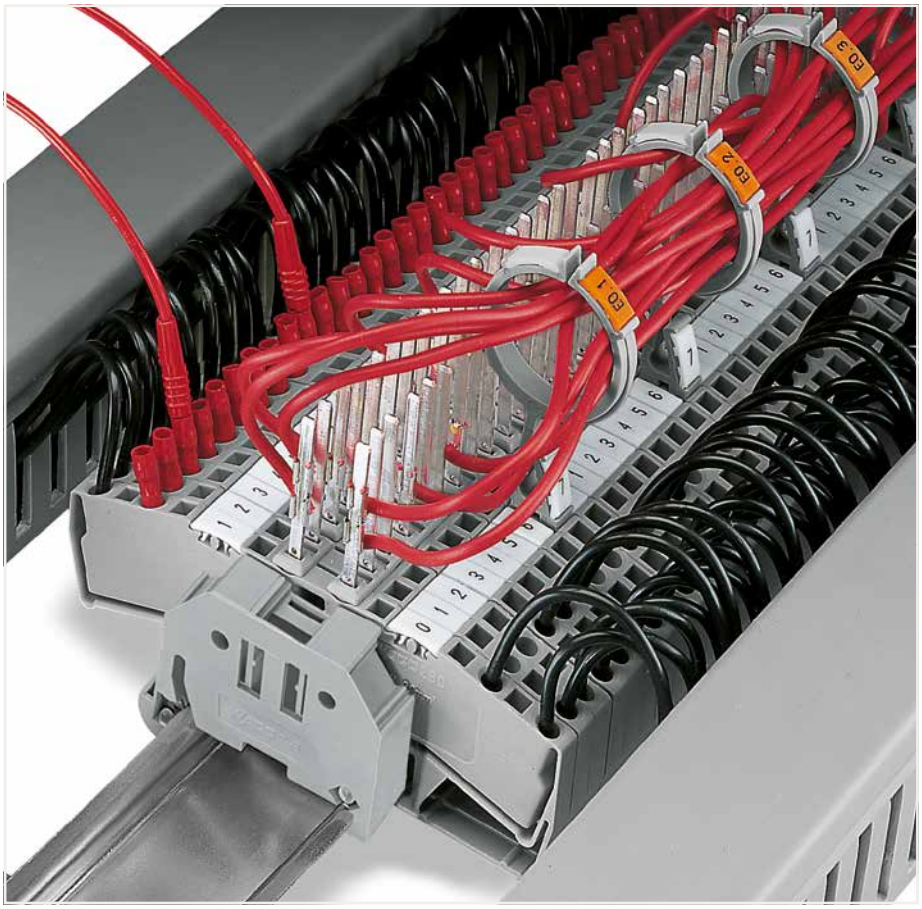


Using terminal blocks for matrix patching as disconnect terminal blocks
via disconnect jumpers.



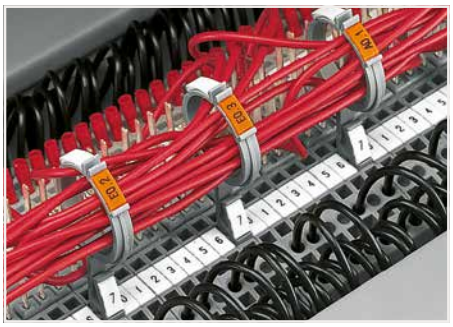
Inserting a pin module into 280 Series blocks.

Multiplying potentials
via 10-way comb-style jumper bar.
(only possible in the terminal block's center)



Clipping a wire harness support into the marker slot.

Inserting a cable into the wire harness support.



2 x group marking on top
1 x terminal block marking at the bottom

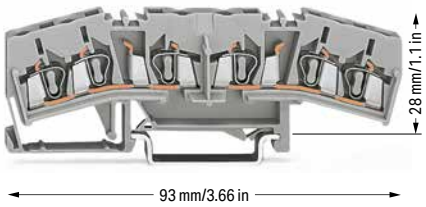
CAGE CLAMP® terminates the following copper conductors:					
solid	stranded	fine-stranded, also with tinned single strands	fine-stranded, tip-bonded	fine-stranded, with ferrule (gastight crimped)	fine-stranded, with pin terminal (gastight crimped)

For aluminum conductors, see notes in Section 14. With ferruled conductors, it is necessary to use a terminal block one size smaller than the conductor's nominal cross section.

CAGE CLAMP®

Terminal Block for Matrix Patching
2.5 mm²; 280 Series

Technical Data	
0.08 … 2.5 mm²	28 … 12 AWG*
800 V/8 kV/3 ❶	600 V, 10 A
I_N 18 A	
Terminal block width: 5 mm / 0.197 inch	
8 … 9 mm / 0.31 … 0.35 inch	



3-conductor double-potential terminal block or terminal block for matrix patching
Notice: This 3-conductor double-potential terminal block cannot be commoned via adjacent jumpers.

Color	Item No.	Pack. Unit
gray	280-675	100

Accessories; for Terminal Blocks for Matrix Patching

Appropriate marking systems:
WMB/WMB Inline

End and intermediate plate; 25 mm thick

orange	280-333	25
gray	280-325	25

Separator; 3 mm oversized; 1 mm thick

gray	280-394	100 (25)
orange	280-395	100 (25)

Insulation stop; 0.08 … 0.2 mm² "s" (0.14 mm² "f-st"); 5 pcs/strip

white	280-470	200 (25)

Insulation stop; 0.25 … 0.5 mm²; 5 pcs/strip

light gray	280-471	200 (25)

Insulation stop; 0.75 … 1 mm²; 5 pcs/strip

dark gray	280-472	200 (25)

Protective warning marker; with black high-voltage symbol; for 5 terminal blocks

yellow	280-415	100 (25)

Comb-style jumper bar; insulated; I_N = I_N of terminal block

2-way	280-482	200 (25)
3-way	280-483	200 (25)

Comb-style jumper bar; insulated; I_N = I_N of terminal block

10-way	280-490	50 (25)

Disconnect jumper; with pull-tab; I_N = I_N of terminal block; orange

2-way	280-494	200 (25)

*12 AWG: THHN, THWN

❶ 800 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree
(see Section 14)
500 V/6 kV/3 between both current bars
(if used as disconnect terminal block or potential multiplier)

See application notes for:
Insulation stop, page 346
Comb-style jumper bar, page 284
Marking, from page 588

Approvals and corresponding ratings, visit www.wago.com

Accessories; for Terminal Blocks for Matrix Patching

Appropriate marking systems:
WMB/WMB Inline

Operating tool; insulated

2-way	280-432	1
3-way	280-433	1

Operating tool; insulated

10-way	280-440	1

Pin module; 1 x 1 mm; for self-assembly on all front-entry rail-mount terminal blocks (280 Series); for wire-wrap connection; 2-pole

	280-477	100

Pin module; 0.8 x 2.4 mm; for self-assembly on all front-entry rail-mount terminal blocks (280 Series); for termi-point connection; 2-pole

	280-473	100

Pin module; 1 x 1 mm; for self-assembly on all front-entry rail-mount terminal blocks (280 Series); for wire-wrap connection; 3-pole

	280-478	100

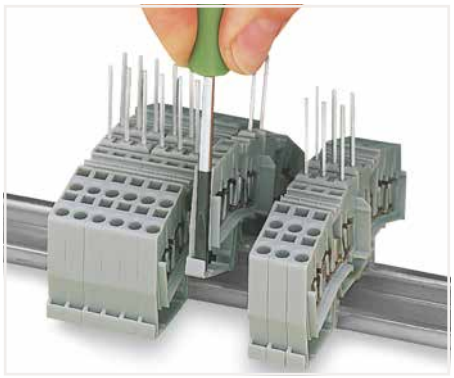
Pin module; 0.8 x 2.4 mm; for self-assembly on all front-entry rail-mount terminal blocks (280 Series); for termi-point connection; 3-pole

	280-474	100

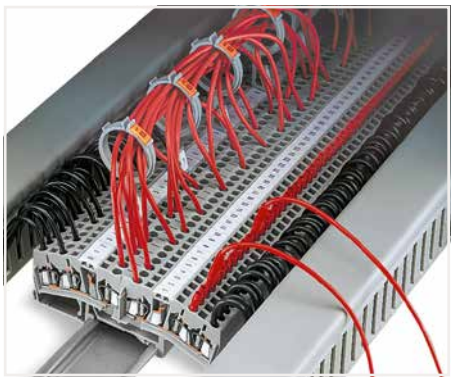
Wire harness support

gray	249-109	50

In measurement and control technology, matrix patchboards are essential for process automation systems. Particularly beneficial to these applications is the use of the WAGO wire harness support, which simplifies wiring. WAGO's 280 Series 3-Conductor Double-Potential Terminal Blocks (with or without the addition of Wire-Wrap® or TERMI-POINT® pins) are also ideal for this type of application. They can be used for connecting peripheral field devices (e.g. measuring and control equipment) to process control systems (e.g., panels, cabinets) via matrix connections.
The WAGO wire harness supports are pushed into the terminal blocks (approx. every 8th unit) to form an additional "cable-duct" above the wiring level of the terminal blocks. The two marker slots on the top may be used for group marking, while the lower slot is used for marking the terminal block.



Please note that due to the protruding rods, the terminal blocks can only be inserted or removed from the assembly after sliding adjacent terminal blocks on the rail. Removal: Separate terminal strip, slide terminal block to disconnect and then remove from the DIN-rail.

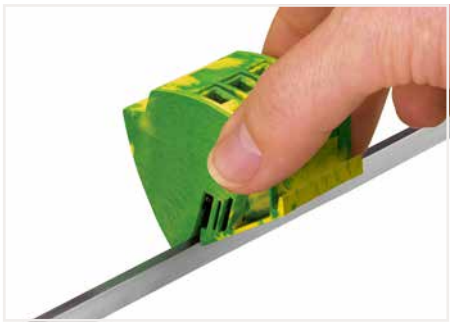


Terminal blocks for matrix patching with wire harness supports:
For 5 mm wide double-potential terminal blocks, two 3-conductor through terminal blocks are offered in one insulating housing on one level. This achieves a width of just 2.5 mm versus standard through terminal blocks. On each side of the terminal block are marker slots for WAGO WMB Inline markers. Via the available accessories, these terminal blocks can also be used as 4-conductor disconnect terminal blocks or potential multipliers.

The WAGO wire harness supports are pushed into the terminal blocks (approx. every 8th unit) to form an additional "cable-duct" above the wiring level of the terminal blocks. The two marker slots on the top may be used for group marking, while the lower slot is used for marking the terminal block.

PUSH-IN CAGE CLAMP® CAGE CLAMP®

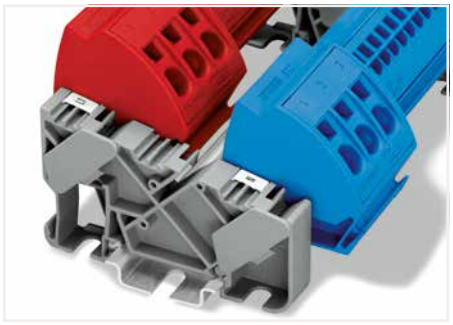
Busbar Terminal Blocks
812 Series
Description and Installation



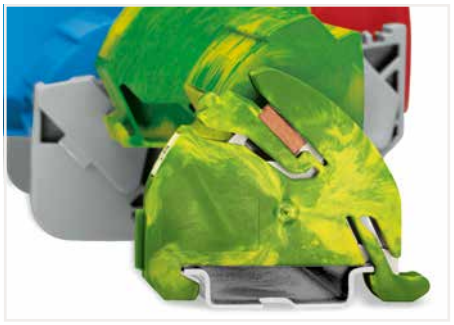
Snapping a ground busbar terminal block onto the N-busbar.

Unlock right and left positions to remove the ground busbar terminal block. Then pull up the block from the busbar.

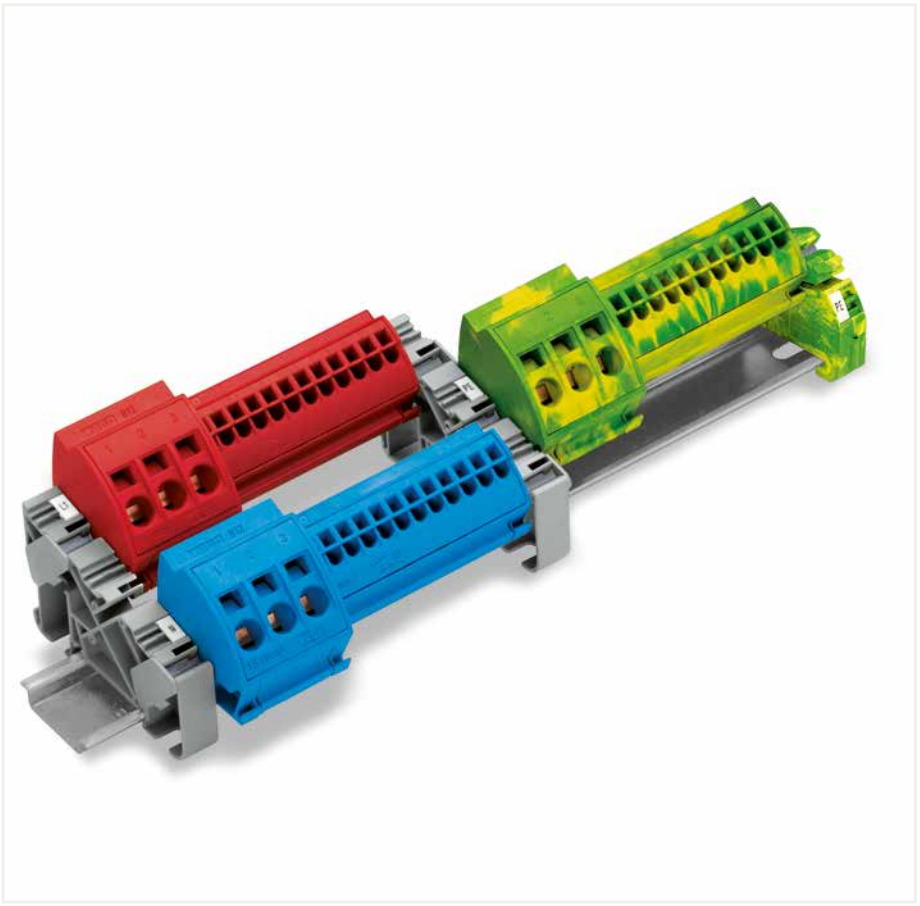
Using the 812 Series Busbar Terminal Blocks in switchgear cabinets and distribution boards permits simple and safe potential distribution on standard (10 x 3) mm busbars. Tool-free snapping of self-locking busbar terminal blocks onto the busbar enables quick and easy assembly, as well as subsequent extension. The busbar terminal blocks are available in two different versions for conductors ranging from 1.5 to 16 mm² (16–6 AWG).
Current carrying capacity: With a maximum total current of 96 A, the clamping units of the busbar terminal block can be loaded with the rated current of the conductor cross sections approved. This only applies when (10 x 3) mm busbars are used.



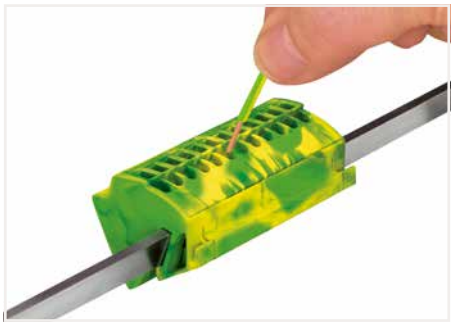
Busbar carrier (812-140):
Offers three receptacles for (10 x 3) mm busbars with locking device for easy mounting of the busbars. The carrier can be snapped onto the DIN-35 rail or screwed on a panel.



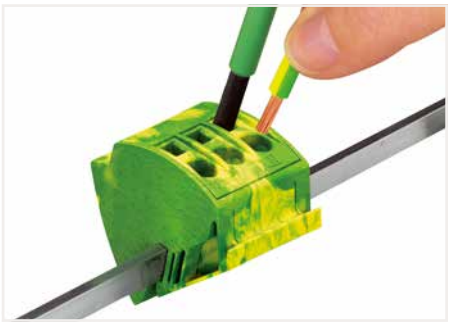
Ground busbar carrier (812-141):
Offers a receptacle with locking device for (10 x 3) mm busbar. Contact between the busbar and rail is made automatically by simply snapping the carrier onto the DIN-35 rail. One end of the busbar is mounted onto the ground busbar carrier, the other end is inserted into the middle position of the insulated busbar carrier.



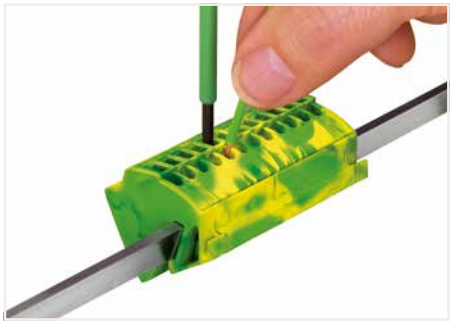
Mixed 4 mm² (12 AWG) and 16 mm² (6 AWG) busbar terminal blocks



Conductor termination (4 mm²/12 AWG):
With Push-in CAGE CLAMP®, solid conductors can be terminated by simply pushing them into the 12 x 4 mm² busbar terminal block, significantly reducing wiring time.



Conductor termination (16 mm²/6 AWG):
Open the clamping unit with an operating tool when terminating solid, stranded and fine-stranded conductors.



Conductor removal (4 mm²/12 AWG and 16 mm²/6 AWG):
Open the clamping unit using an operating tool.

CAGE CLAMP® and Push-in CAGE CLAMP® terminate the following copper conductors:

solid	stranded	fine-stranded, also with tinned single strands	fine-stranded, tip-bonded

For aluminum conductors, see notes in Section 14.

11

Busbar Terminal Block
4 mm² and 16 mm²; 812 Series

Technical Data	
0.5 … 4 mm²	20 … 12 AWG
1000 V/6 kV/3	600 V, 20 A
I_N 96 A	600 V, 95 A
Terminal block width: 75 mm / 2.953 inch	
11 mm / 0.43 inch	

Busbar terminal block 4 mm²; with Push-in CAGE CLAMP® connection

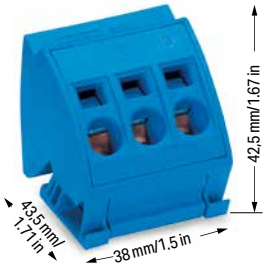
Color	Item No.	Pack. Unit
blue	812-104	10
light gray	812-101	10
dark gray	812-102	10
red	812-103	10

Accessories; item-specific

Busbar; tin-plated; 1000 mm long; Copper (10 x 3) mm

I_N 140 A 210-133 1

Technical Data	
1.5 … 16 mm²	14 … 6 AWG
1000 V/6 kV/3	600 V, 20 A
I_N 96 A	600 V, 95 A
Terminal block width: 38 mm / 1.496 inch	
12 mm / 0.47 inch	



Busbar terminal block 16 mm²; with CAGE CLAMP® connection

Color	Item No.	Pack. Unit
blue	812-114	12
light gray	812-111	12
dark gray	812-112	12
red	812-113	12

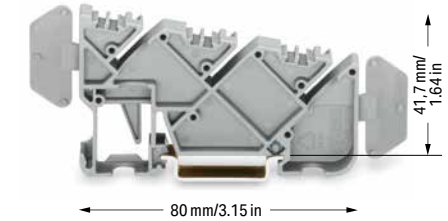
Accessories; item-specific

Busbar; tin-plated; 1000 mm long; Copper (10 x 3) mm

I_N 140 A 210-133 1

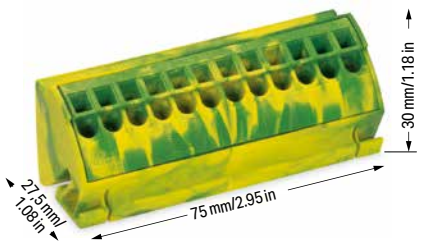
Finger guard; touch-proof cover protects unused conductor entries

yellow 284-400 100 (25)



Insulated busbar carrier; 12 mm wide

Color	Item No.	Pack. Unit
gray	812-140	25



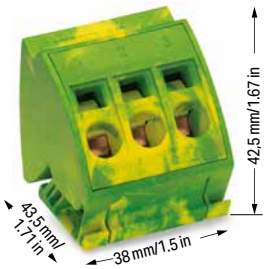
Ground busbar terminal block 4 mm²; with Push-in CAGE CLAMP® connection

Color	Item No.	Pack. Unit
green-yellow	812-100	10

Accessories; item-specific

Busbar; tin-plated; 1000 mm long; Copper (10 x 3) mm

I_N 140 A 210-133 1



Ground busbar terminal block 16 mm²; with CAGE CLAMP® connection

Color	Item No.	Pack. Unit
green-yellow	812-110	12

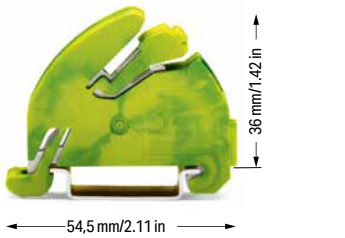
Accessories; item-specific

Busbar; tin-plated; 1000 mm long; Copper (10 x 3) mm

I_N 140 A 210-133 1

Finger guard; touch-proof cover protects unused conductor entries

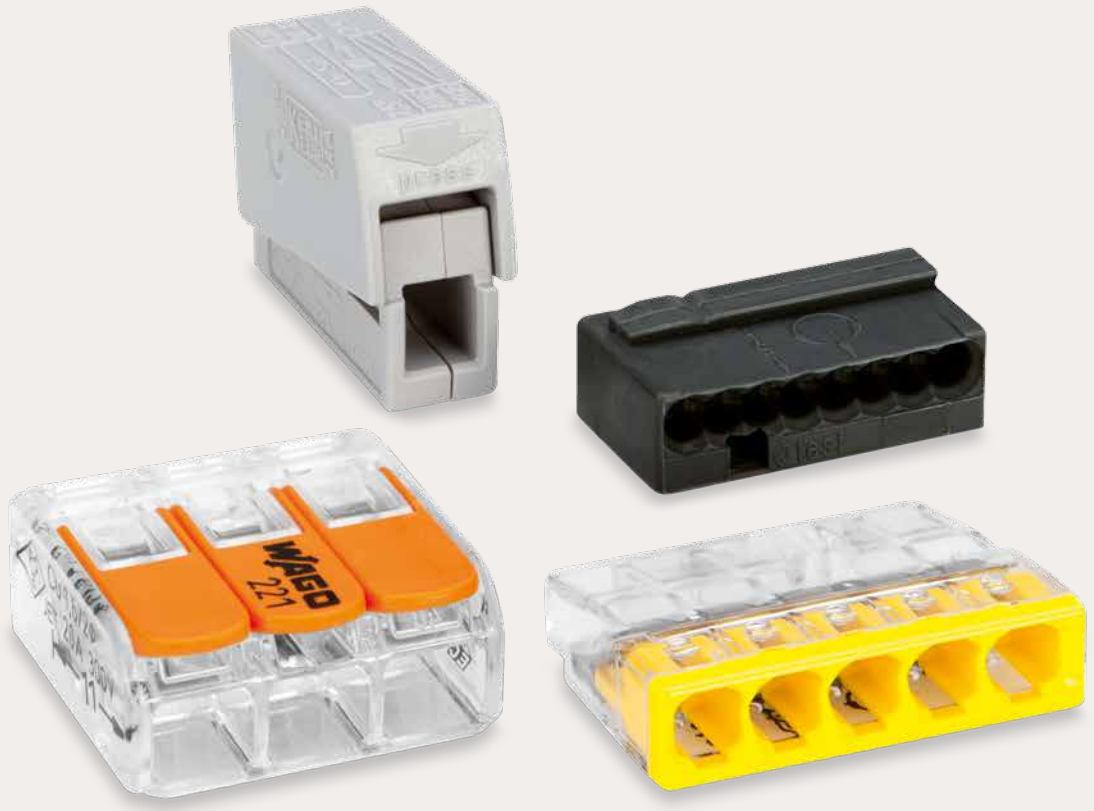
yellow 284-400 100 (25)



Ground busbar carrier; with DIN-35 rail contact; 11 mm wide

Color	Item No.	Pack. Unit
green-yellow	812-141	25

11



WAGO Splicing Connectors
WAGO Lighting Connectors

PUSH WIRE® CAGE CLAMP®

WAGO Splicing Connectors
WAGO Lighting Connectors

			Page
	COMPACT PUSH WIRE® Connectors for Junction Boxes 2.5 mm² (14 AWG)	2273 Series	537
	PUSH WIRE® Connectors for Junction Boxes 4 mm² and 6 mm² (10 AWG)	773 Series	540
	Ex PUSH WIRE® Connectors for Junction Boxes 2.5 mm² (12 AWG) and 6 mm² (10 AWG)	773 Series	542
	MICRO PUSH WIRE® Connectors for Junction Boxes 0.8 mm Ø	243 Series	546
	COMPACT Splicing Connectors for All Conductor Types 4 mm² and 6 mm² (10 AWG)	221 Series	549
	CLASSIC Splicing Connectors for All Conductor Types 2.5 mm² (14 AWG)	222 Series	557
	Lighting Connectors 2.5 mm² (14 AWG)	224 Series	561
	Splicing Connector Set	887 Series	562
	Luminaire Disconnect Connectors 12 AWG	873 Series	566

12

PUSH WIRE®

COMPACT PUSH WIRE® Junction Box Connectors for Solid Conductors
2273 Series
Description and Installation

Advantages:
- Convenient wiring via extremely compact design
- Push-in termination of up to eight solid conductors
- Cross section range: 0.5 … 2.5 mm² (18 … 14 AWG)
- Any combination of conductor sizes is possible
- PUSH WIRE® connection terminates solid ("s") copper conductors

Strip solid conductor to 11 mm/0.43 inch (see marking).

Termination: Insert the stripped solid conductor until it hits backstop.

The transparent housing shows if conductors are fully inserted; within the colored base, a clear port shows if the conductor's strip length is correct.
Conductors are correctly stripped if the clear port shows no bare conductor on the unprinted connector side. Picture shows center conductor with exceeded strip length.

Removal: Hold conductor to be removed and twist alternately left and right while pulling the connector.

Testing via test port opposite to conductor entry.

One single carrier can hold up to 24 clamping units in a very narrow space. Previously, this was only possible using rail-mount terminal blocks.

Advantages:
- Mount carrier onto DIN-35 rail or via screws – easily and quickly
- Accommodate three 2.5 mm² (12 AWG) 2273 Series Connectors in a single carrier
- Easily exchange connectors
- Large marking area for self-adhesive marking strips or for direct marking with permanent felt-tip pen

To adjust the mounting carrier, unlock the latch via operating tool (5.5 mm blade) and move the clamping slide to the required width by rotating the tool.

The mounting carrier is suitable for both connector widths.

PUSH WIRE® Connectors in Distribution Boxes
During distribution box retrofits or expansions, conductors often require extensions or additional clamping points. Individual PUSH WIRE® connectors (e.g., 2773 Series) are approved as interconnect components for building wiring applications per EN 60998. Application standards for building installation (e.g., Parts 510 and 520 from DIN VDE 0100) also place the following requirements on junction box connectors:
- They must be arranged so that operation, inspection, maintenance and access to the removable connectors is simplified.
- It must be possible to test them.
- Conductors connected from outside must be clearly and permanently assigned to their associated circuits.

These requirements cannot be met with PUSH WIRE® connectors alone. In combination with mounting carriers, the PUSH WIRE® connectors clearly meet these requirements, making them comparable to rail-mount terminal blocks. Using PUSH WIRE® connectors with mounting carriers in distribution boxes is accepted by testing authorities.

PUSH WIRE® terminates the following copper conductors:
solid

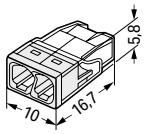
For aluminum conductors, see notes in Section 14.

PUSH WIRE®

COMPACT PUSH WIRE® Junction Box Connector for Solid Conductors and Mounting Carrier
2.5 mm²; 2273 Series

Technical Data	
0.5 … 2.5 mm² “s”	20 … 14 AWG “s”
450 V/4 kV/2	
I_N 24 A	
11 mm / 0.43 inch	

Dimensions in mm

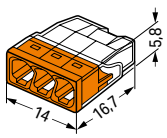


COMPACT PUSH WIRE® connector for junction boxes; 2-wire connector; Transparent housing; White cover; Continuous operating temperature (max.): 105 °C; Surrounding air temperature (max.): 60 °C (T60)

Item No.	Pack. Unit
2273-202	1000 (100)

Technical Data	
0.5 … 2.5 mm² “s”	20 … 14 AWG “s”
450 V/4 kV/2	
I_N 24 A	
11 mm / 0.43 inch	

Dimensions in mm

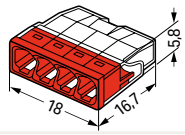


COMPACT PUSH WIRE® connector for junction boxes; 3-wire connector; Transparent housing; Transparent cover; Continuous operating temperature (max.): 105 °C; Surrounding air temperature (max.): 60 °C (T60)

Item No.	Pack. Unit
2273-203	1000 (100)

Technical Data	
0.5 … 2.5 mm² “s”	20 … 14 AWG “s”
450 V/4 kV/2	
I_N 24 A	
11 mm / 0.43 inch	

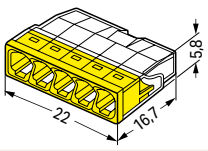
Dimensions in mm



COMPACT PUSH WIRE® connector for junction boxes; 4-wire connector; Transparent housing; Red cover; Continuous operating temperature (max.): 105 °C; Surrounding air temperature (max.): 60 °C (T60)

Item No.	Pack. Unit
2273-204	1000 (100)

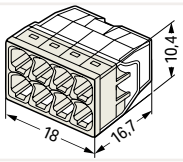
Dimensions in mm



COMPACT PUSH WIRE® connector for junction boxes; 5-wire connector; Transparent housing; Yellow cover; Continuous operating temperature (max.): 105 °C; Surrounding air temperature (max.): 60 °C (T60)

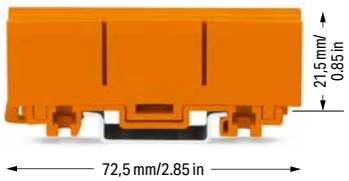
Item No.	Pack. Unit
2273-205	1000 (100)

Dimensions in mm



COMPACT PUSH WIRE® connector for junction boxes; 8-wire connector; Transparent housing; Light gray cover; Continuous operating temperature (max.): 105 °C; Surrounding air temperature (max.): 60 °C (T60)

Item No.	Pack. Unit
2273-208	500 (50)



Mounting carrier; for single- and double-row connectors

	Item No.	Pack. Unit
orange	2273-500	50 (10)

Accessories; item-specific

Marking strip; 5 mm high; 48 self-adhesive strips per card; plain

white 210-334 100

Accessories; 2273 Series

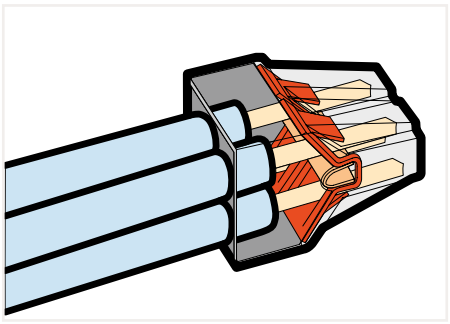
Syringe; contains 20 ml “Alu-Plus” Contact Paste

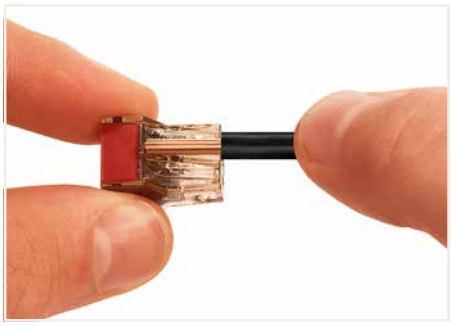
249-130 20 (5)

12

PUSH WIRE®

PUSH WIRE® Connectors for Junction Boxes
773 Series
Description and Installation



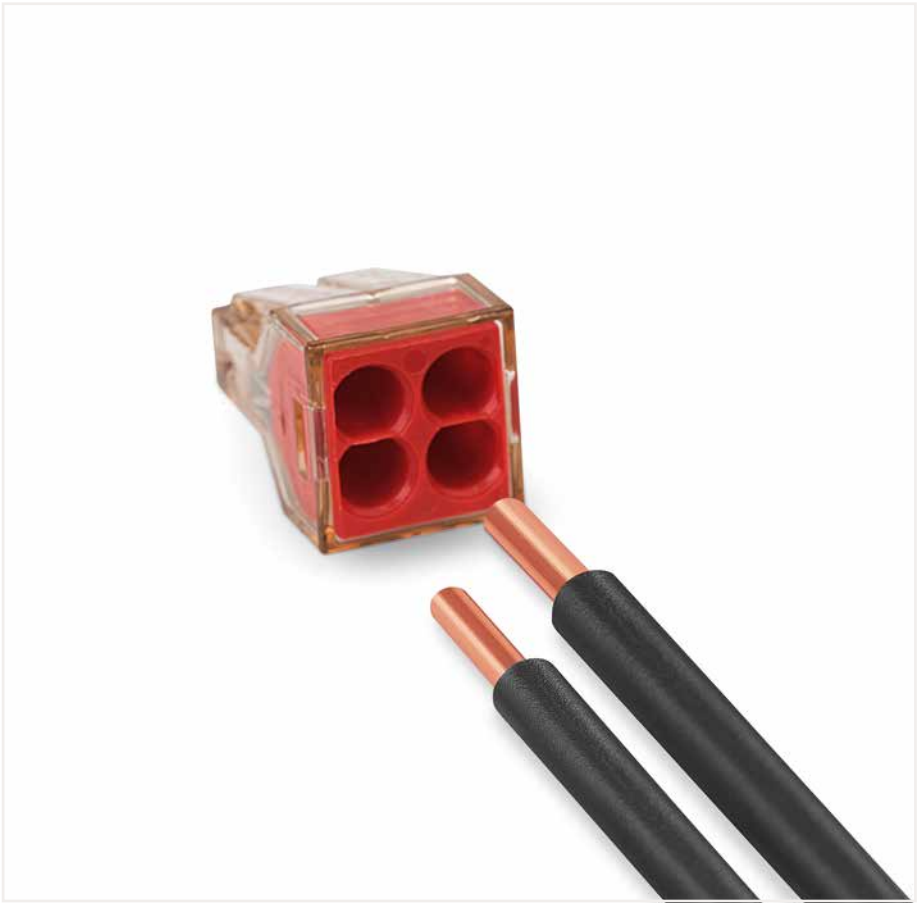


Strip a solid conductor to 12 mm (0.47 inch).

Termination: Insert stripped solid conductor until it hits backstop.

Removal: Hold conductor to be removed and twist alternately left and right while pulling the connector.

Testing

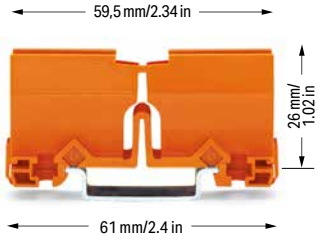


PUSH WIRE® terminates the following copper conductors: solid

For aluminum conductors, see notes in Section 14.

Mounting Carrier; for PUSH WIRE® Junction Box Connectors; for DIN-35 Rail or Screw Mount; 773 Series

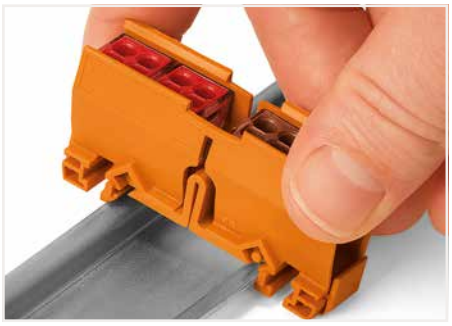
773 Series



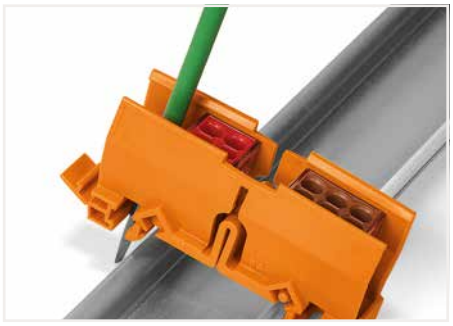
Mounting carrier; for all 773 Series PUSH WIRE® Connectors for Junction Boxes		
Color	Item No.	Pack. Unit
orange	773-332	50 (10)

Accessories; item-specific			
Marking strip; 5 mm high; 48 self-adhesive strips per card; plain			
	white	210-334	100

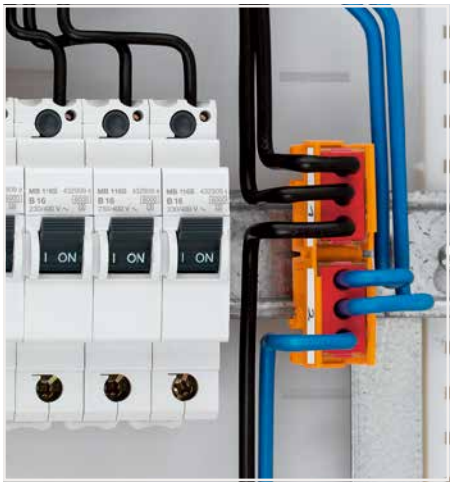
Use the cover as an end plate.



Snap the mounting carrier onto the DIN-rail.



Remove the mounting carrier from the DIN-rail.



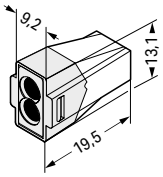
A mounting carrier (see accessories) suits applications where the connectors must be marked and secured in position. The DIN-35 rail-mount carrier fits up to six connectors and can also be mounted on a flat surface using two screws.

Using this PUSH WIRE® connector, a large range of wiring applications can be achieved in distribution or junction boxes. To mention just a few: potential multiplication and changing from or to 6 mm² (10 AWG) conductor size.

PUSH WIRE® Junction Box Connector for Solid Conductors
4 mm²; 773 Series

Technical Data
1.5 … 4 mm² "s"
400 V/4 kV/2 ❶
I_N 32 A
12 mm / 0.47 inch

Dimensions in mm

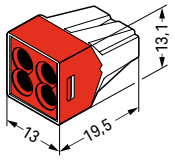


PUSH WIRE® junction box connector for solid conductors up to 4 mm²; 2-wire connector; Transparent brown housing; White cover; Continuous operating temperature (max.): 105 °C; Surrounding air temperature (max.): 60 °C (T60)

Item No.	Pack. Unit
773-602	1000 (100)

Technical Data
1.5 … 4 mm² "s"
400 V/4 kV/2 ❶
I_N 32 A
12 mm / 0.47 inch

Dimensions in mm

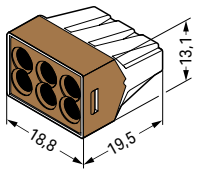


PUSH WIRE® junction box connector for solid conductors up to 4 mm²; 2-wire connector; Transparent brown housing; Red cover; Continuous operating temperature (max.): 105 °C; Surrounding air temperature (max.): 60 °C (T60)

Item No.	Pack. Unit
773-604	1000 (100)

Technical Data
1.5 … 4 mm² "s"
400 V/4 kV/2 ❶
I_N 32 A
12 mm / 0.47 inch

Dimensions in mm



PUSH WIRE® junction box connector for solid conductors up to 4 mm²; 2-wire connector; Transparent brown housing; Brown cover; Continuous operating temperature (max.): 105 °C; Surrounding air temperature (max.): 60 °C (T60)

Item No.	Pack. Unit
773-606	500 (50)

Accessories; 773 Series

Syringe; contains 20 ml "Alu-Plus" Contact Paste

249-130 20 (5)

Mounting carrier; for single- and double-row connectors

orange 773-332 50 (10)

12

PUSH WIRE®

PUSH WIRE® Connector for Junction Boxes
2.5 mm² and 6 mm²; 773 Series

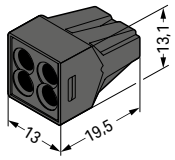
Technical Data	
0.75 … 2.5 mm² “s”	18 … 12 AWG “s”
1.5 … 2.5 mm² “st”	16 … 12 AWG “st”
400 V/4 kV/2 ❶	600 V, 20 A
I_N 24 A	600 V, 20 A
12 mm / 0.47 inch	

Technical Data	
2.5 … 6 mm² “s+st”	14 … 10 AWG “s+st”
400 V/4 kV/2 ❶	600 V, 30 A
I_N 41 A	600 V, 30 A
12 … 13 mm / 0.47 … 0.51 inch	

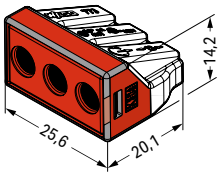
❶ In grounded power lines
400 V = rated voltage
4 kV = rated impulse voltage
2 = pollution degree
(see Section 14)

Approvals and corresponding ratings, visit www.wago.com

Dimensions in mm



Dimensions in mm



PUSH WIRE® connector for junction boxes; 4-wire connector; Continuous operating temperature: 105 °C; Surrounding air temperature (max.): 105 °C

Color	Item No.	Pack. Unit
● black	773-514	1000 (100)

PUSH WIRE® connector for junction boxes; 3-wire connector; Transparent housing; Red cover; Continuous operating temperature (max.): 105 °C; Surrounding air temperature (max.): 60 °C

	Item No.	Pack. Unit
	773-173	500 (50)

Accessories; 773 Series

Syringe; contains 20 ml “Alu-Plus” Contact Paste

249-130 20 (5)

PUSH WIRE® Connectors in Distribution Boxes

During distribution box retrofits or expansions, conductors often require extensions or additional clamping points. Individual PUSH WIRE® connectors (e.g., 773 Series) are approved as interconnect components for building wiring applications per EN 60998. Application standards for building installation (e.g., Parts 510 and 520 from DIN VDE 0100) also place the following requirements on junction box connectors:

- They must be arranged so that operation, inspection, maintenance and access to the removable connectors is simplified.
- It must be possible to test them.
- Conductors connected from outside must be clearly and permanently assigned to their associated circuits.

These requirements cannot be met with PUSH WIRE® connectors alone. In combination with mounting carriers, the PUSH WIRE® connectors clearly meet these requirements, making them comparable to rail-mount terminal blocks. Using PUSH WIRE® connectors with mounting carriers in distribution boxes is accepted by testing authorities.

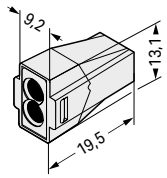
12

PUSH WIRE®

Ex PUSH WIRE® Connector for Junction Boxes
2.5 mm² and 6 mm²; 773 Series

Technical Data	
0.75 … 2.5 mm² “s”	18 … 14 AWG “s”
	16 … 12 AWG “st”
550 V ❶	
I_N 24 A	
12 mm / 0.47 inch	

Dimensions in mm

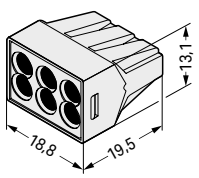


PUSH WIRE® connector for junction boxes; 2-wire connector

Color	Item No.	Pack. Unit
◯ light gray	773-492 ❷	1000 (100)

Technical Data	
0.75 … 2.5 mm² “s”	18 … 14 AWG “s”
	16 … 12 AWG “st”
550 V ❶	
I_N 24 A	
12 mm / 0.47 inch	

Dimensions in mm

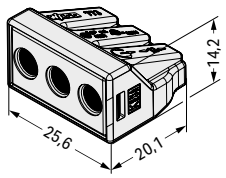


PUSH WIRE® connector for junction boxes; 6-wire connector

Color	Item No.	Pack. Unit
◯ light gray	773-496 ❷	500 (50)

Technical Data	
2.5 … 6 mm² “s”	14 … 10 AWG “s”
550 V ❶	
I_N 42 A	
12 … 15 mm / 0.47 … 0.59 inch	

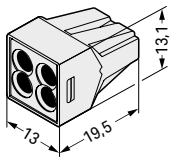
Dimensions in mm



PUSH WIRE® connector for junction boxes; 3-wire connector

Color	Item No.	Pack. Unit
◯ light gray	773-493 ❷	500 (50)

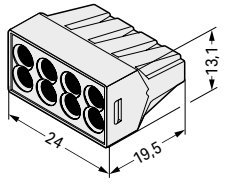
Dimensions in mm



PUSH WIRE® connector for junction boxes; 4-wire connector

	Item No.	Pack. Unit
◯ light gray	773-494 ❷	1000 (100)

Dimensions in mm

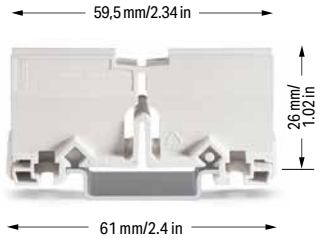


PUSH WIRE® connector for junction boxes; 8-wire connector

	Item No.	Pack. Unit
◯ light gray	773-498 ❷	500 (50)

12

Mounting Carrier; for Ex PUSH WIRE® Junction Box Connectors; for DIN-35 Rail or Screw Mount
773 Series



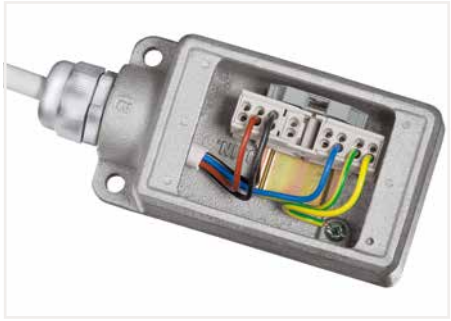
Mounting carrier; for Ex PUSH WIRE® junction box connectors		
Color	Item No.	Pack. Unit
◯ light gray	773-331	50 (10)

Accessories; item-specific			
Marking strip; 5 mm high; 48 self-adhesive strips per card; plain			
	white	210-334	100

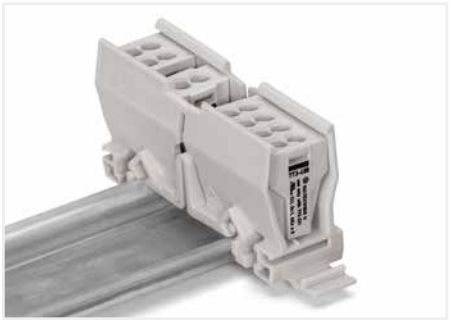
❶ 275 V at a distance < 10 mm to parts of other potentials

❷ To be used only in conjunction with a mounting carrier (773-331)

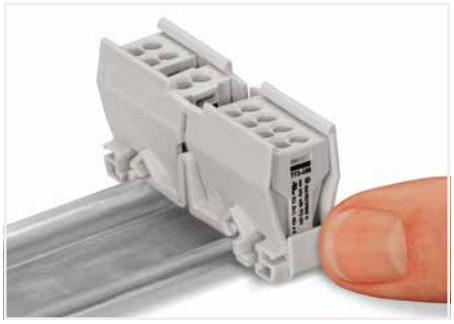
Approvals and corresponding ratings, visit www.wago.com



Wiring example in an Ex junction box



Insert the connectors into the carrier.



Use the cover as an end plate.

Snap the mounting carrier onto the DIN-rail.

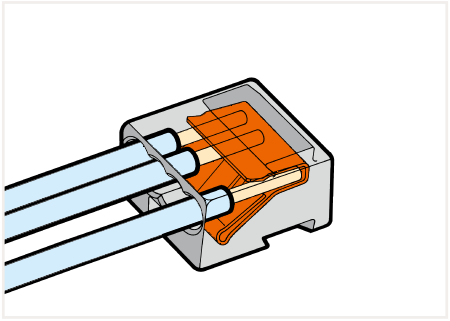
Remove the mounting carrier from the DIN-rail.

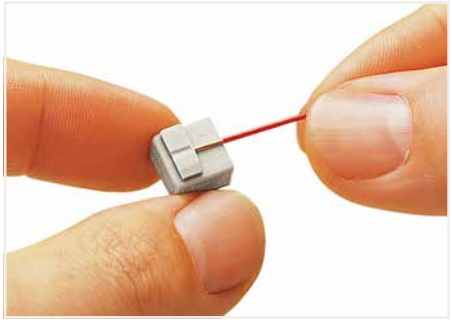
Ex PUSH WIRE® connectors are ideal for distribution and junction boxes, as well as control and operating systems. When used in hazardous areas, they offer the following advantages over traditional connectors:

- Time- and cost-saving PUSH WIRE® connection
- Vibration-proof, maintenance-free connections
- 100% touch-proof protection
- Connectors can be secured in position via mounting carriers
- One single carrier equipped with 2-, 4-, 6- and 8-wire connectors holds up to 16 clamping units according to user requirements, saving materials and related costs
- Available as OEM products for manufacturers and suppliers of enclosures and distribution boxes used in hazardous areas

PUSH WIRE®

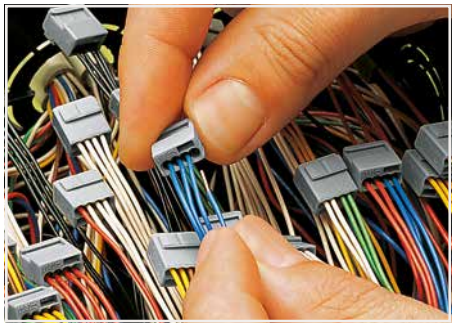
MICRO PUSH WIRE® Junction Box Connectors for Solid Conductors
243 Series
Description and Installation



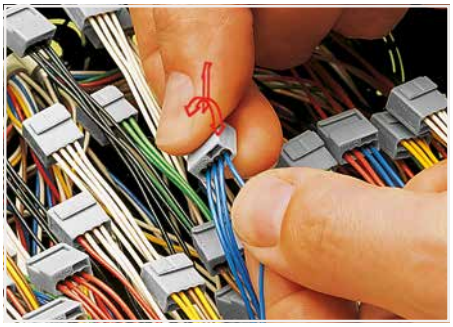


Strip solid conductors to 5 … 6 mm (0.19 … 0.23 inch).

Connector strips:
Assembling modular connectors into connector strips.

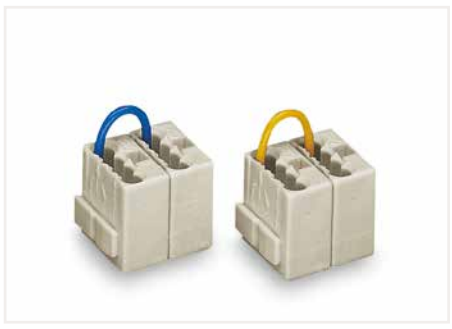


Termination: Insert stripped conductor until it hits backstop.



Removal: Hold conductor to be removed and twist alternately left and right while pulling the connector.

Testing



Commoned connector strips

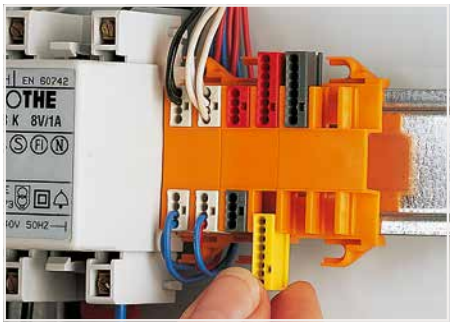
12

PUSH WIRE®
terminates the following copper conductors:
solid

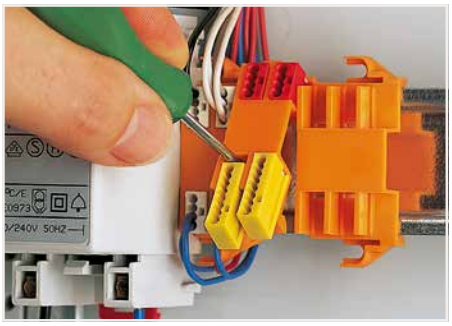
For aluminum conductors, see notes in Section 14.
PUSH WIRE® connectors for KNX applications, see Volume 2 "PCB Terminal Blocks and Connectors"

Mounting Carrier; for MICRO PUSH WIRE® Junction Box Connectors; for DIN-35 Rail or Screw Mount

243 Series

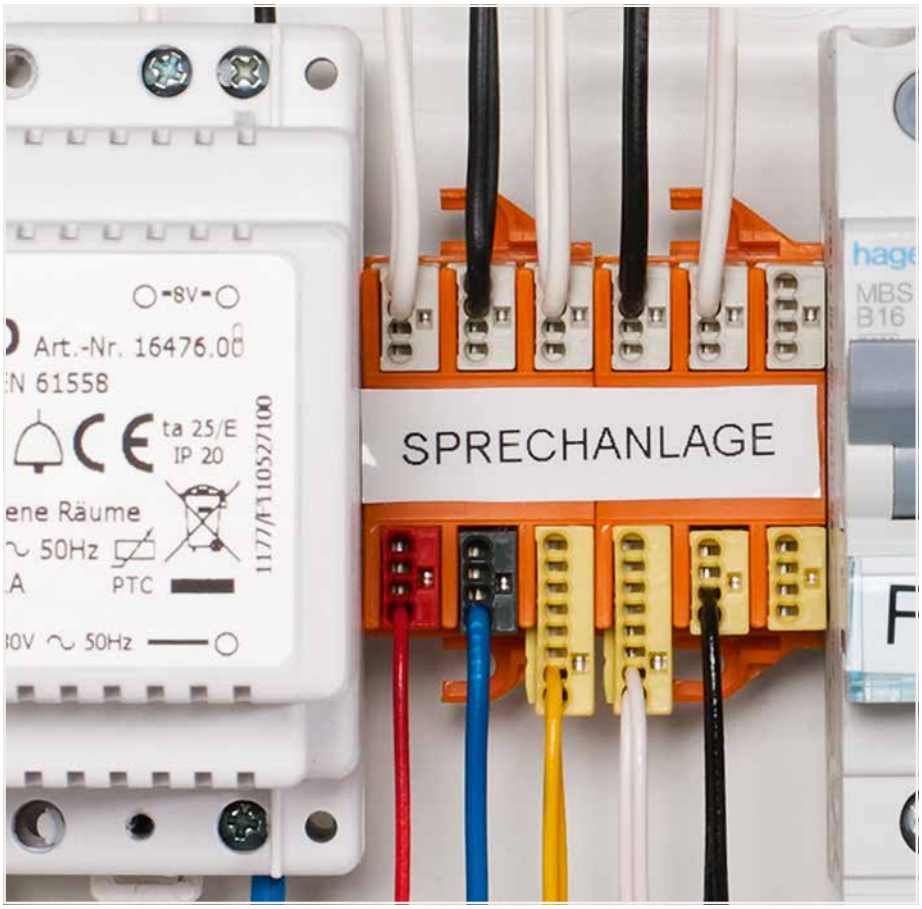


Inserting a MICRO junction box connector into the mounting carrier.

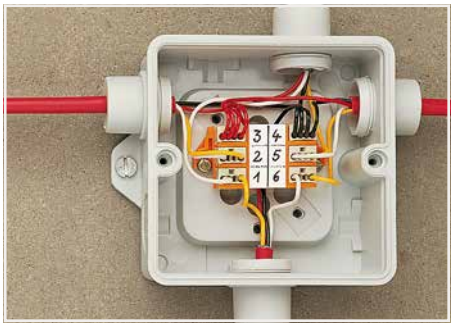


Removing a mounting carrier from the assembly.

Example of a residential door bell application – carriers mounted on a DIN-35 rail



Example of a residential intercom application



Typical application in a terminal box for burglar alarm – screw-mounted carrier

Quick Fix Mounting

Realizing MICRO PUSH WIRE® connectors for junction boxes are ideal for DIN-rail-mount panel applications, electrical installers have requested the ability to use them in distribution panels. These connectors provide easy connections for smaller conductors used in low-current applications. They are well-suited to terminating telephone-style conductors for connecting alarms, bells, door sensors, communication systems, etc.

The mounting carrier is WAGO's professional solution. It is available with mounting slots for 4 or 6 connectors.

Depending on the number of conductors, each mounting slot can accommodate a 4- or 8-conductor MICRO PUSH WIRE® junction box connector. The connectors simply snap into the mounting slots and are removable, allowing conductors to be exchanged during changeover.

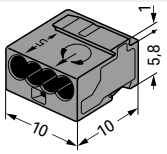
The carrier is designed for easy mounting directly to the DIN-35 rail, or to a panel, via the screw-mount flanges provided on both sides. A large marking area for direct marking with a permanent felt-tip pen or for pre-printed self-adhesive marking strips is provided for clear circuit identification.

PUSH WIRE®

MICRO PUSH WIRE® Connector for Junction Boxes
Ø 0.8 mm and Ø 0.5 mm; 243 Series

Technical Data	
0.6 … 0.8 mm Ø “s” ❶	22 … 20 AWG “s”
100 V/1,5 kV/2 ❷	150 V, 7 A
I_N 6 A	150 V, 7 A
5 … 6 mm / 0.2 … 0.24 inch	

Dimensions in mm

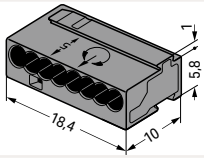


MICRO PUSH WIRE® connector for junction boxes; 4-wire connector; Continuous operating temperature (max.): 105 °C; Surrounding air temperature (max.): 60 °C

Color	Item No.	Pack. Unit
dark gray	243-204	1000 (100)
red	243-804	1000 (100)

Technical Data	
0.6 … 0.8 mm Ø “s” ❶	22 … 20 AWG “s”
100 V/1,5 kV/2 ❷	150 V, 7 A
I_N 6 A	150 V, 7 A
5 … 6 mm / 0.2 … 0.24 inch	

Dimensions in mm

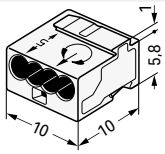


MICRO PUSH WIRE® connector for junction boxes; 8-wire connector; Continuous operating temperature (max.): 105 °C; Surrounding air temperature (max.): 60 °C

Color	Item No.	Pack. Unit
dark gray	243-208	500 (50)
red	243-808	500 (50)

Technical Data	
0.4 … 0.5 mm Ø “s”	26 … 24 AWG “s”
100 V/1,5 kV/2 ❷	
I_N 6 A	150 V, 7 A
5 … 6 mm / 0.2 … 0.24 inch	

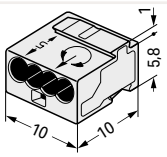
Dimensions in mm



MICRO PUSH WIRE® connector for junction boxes; 4-wire connector; Continuous operating temperature (max.): 105 °C; Surrounding air temperature (max.): 60 °C

Color	Item No.	Pack. Unit
transparent	243-144	1000 (100)

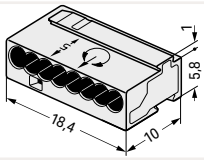
Dimensions in mm



MICRO PUSH WIRE® connector for junction boxes; 4-wire connector; Continuous operating temperature (max.): 105 °C; Surrounding air temperature (max.): 60 °C

Color	Item No.	Pack. Unit
light gray	243-304	1000 (100)
red	243-504	1000 (100)

Dimensions in mm



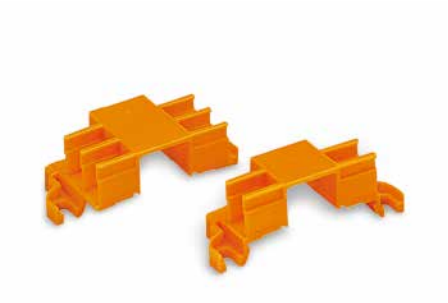
MICRO PUSH WIRE® connector for junction boxes; 8-wire connector; Continuous operating temperature (max.): 105 °C; Surrounding air temperature (max.): 60 °C

Color	Item No.	Pack. Unit
light gray	243-308	500 (50)
red	243-508	500 (50)

12

Mounting Carrier; for MICRO PUSH WIRE® Junction Box Connectors; for DIN-35 Rail or Screw Mount

243 Series



Mounting carrier; for 4 connectors		
Color	Item No.	Pack. Unit
orange	243-112	50 (10)

Mounting carrier; for 6 connectors		
orange	243-113	50 (10)

Accessories; item-specific			
Marking strip; 7 mm high; 6 self-adhesive strips per card; plain			
	white	243-110	100

❶ When using conductors of the same diameter, 0.5 mm (24 AWG) or 1 mm (18 AWG) diameters are also possible.

❷ 100 V = rated voltage
1.5 kV = rated impulse voltage
2 = pollution degree
(see Section 14)

Approvals and corresponding ratings, visit www.wago.com

The 243 Series can be used in both communication and alarm systems according to the VdS (German Association of Property Insurers) guidelines.

No general approval is given to PUSH WIRE® connectors by the VdS association. The connectors must be tested together with the different parts of the system.

The requirements for connectors are specified in the VdS guidelines for junction boxes (VdS 2116) in section 9.8: "The junction box connectors must be designed to guarantee a reliable and stable connection."

The verification of the fulfillment of these requirements is documented in the VDE test report No. 2574-1440-4031 for the insulated 243 Series PUSH WIRE® Connectors.

Quick Fix Mounting

Realizing MICRO PUSH WIRE® connectors for junction boxes are ideal for DIN-rail-mount panel applications, electrical installers have requested the ability to use them in distribution panels. These connectors provide easy connections for smaller conductors used in low-current applications. They are well-suited to terminating telephone-style conductors for connecting alarms, bells, door sensors, communication systems, etc.

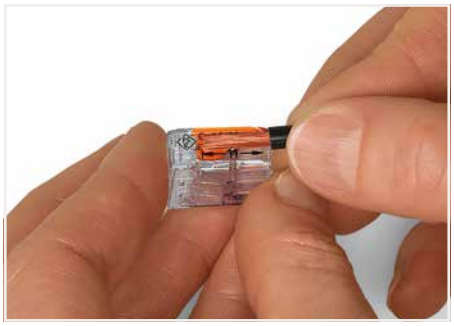
The mounting carrier is WAGO's professional solution. It is available with mounting slots for 4 or 6 connectors.

Depending on the number of conductors, each mounting slot can accommodate a 4- or 8-conductor MICRO PUSH WIRE® junction box connector. The connectors simply snap into the mounting slots and are removable, allowing conductors to be exchanged during changeover.

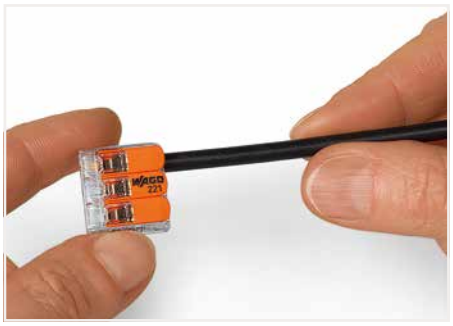
The carrier is designed for easy mounting directly to the DIN-35 rail, or to a panel, via the screw-mount flanges provided on both sides. A large marking area for direct marking with a permanent felt-tip pen or for pre-printed self-adhesive marking strips is provided for clear circuit identification.

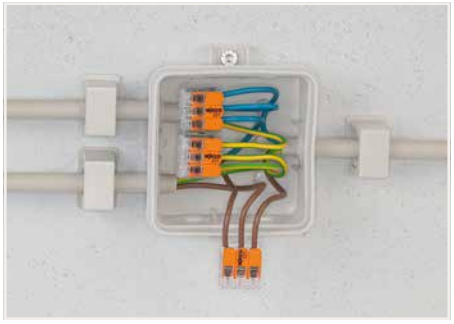
CAGE CLAMP®

COMPACT Splicing Connectors for All Conductor Types
221 Series
Description and Installation


Strip conductor to 11 mm (0.43 inch).

Termination: Lift the lever to open the clamping unit and insert a stripped conductor.


Then, lower the lever to close the clamp.


Wiring fine-stranded conductors in a junction box.

Custom low-voltage lighting system

Wiring fine-stranded conductors in a junction box for in-floor heating.

Lighting distribution in ceiling canopy

Pendant light connection in suspended ceilings

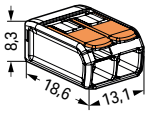
CAGE CLAMP® terminates the following copper conductors:
solid
stranded
fine-stranded, also with tinned single strands
fine-stranded, tip-bonded

CAGE CLAMP®

COMPACT Splicing Connector for All Conductor Types
4 mm²; 221 Series

Technical Data	
0.2 … 4 mm² "s+str"	24 … 12 AWG
0.14 … 4 mm² "f-st"	
450 V/4 kV/2 ❶	600 V, 20 A
I_N 32 A	
11 mm / 0.43 inch	

Dimensions in mm

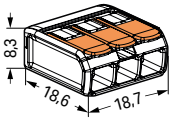


COMPACT splicing connector for all conductor types; 2-wire connector; with levers; Continuous operating temperature (max.): 105 °C; Surrounding air temperature: 85 °C (T85)

Item No.	Pack. Unit
221-412	1000 (100)

Technical Data	
0.2 … 4 mm² "s+str"	24 … 12 AWG
0.14 … 4 mm² "f-st"	
450 V/4 kV/2 ❶	600 V, 20 A
I_N 32 A	
11 mm / 0.43 inch	

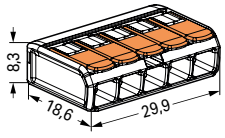
Dimensions in mm



COMPACT splicing connector for all conductor types; 3-wire connector; with levers; Continuous operating temperature (max.): 105 °C; Surrounding air temperature: 85 °C (T85)

Item No.	Pack. Unit
221-413	500 (50)

Dimensions in mm



COMPACT splicing connector for all conductor types; 5-wire connector; with levers; Continuous operating temperature (max.): 105 °C; Surrounding air temperature: 85 °C (T85)

Item No.	Pack. Unit
221-415	250 (25)

❶ 450 V = rated voltage
4 kV = rated impulse voltage
2 = pollution degree
(see Section 14)

Approvals and corresponding ratings, visit www.wago.com

Compact, lever-operated splicing connectors:
Tool-free connection of up to five stripped, fine-stranded conductors from 0.14 … 4 mm², as well as solid or stranded conductors from 0.2 … 4 mm² (24 … 12 AWG).

How these work:
Pull up an orange lever to open the clamping unit. Then insert the conductor and push the lever back down, flush with the connector housing.

Safety:
The specially designed rest position of the lever reliably prevents accidental unclamping of a connected conductor.
Application safety, for any type of conductor (solid, stranded, fine-stranded), is confirmed by approvals like ENEC or UL.

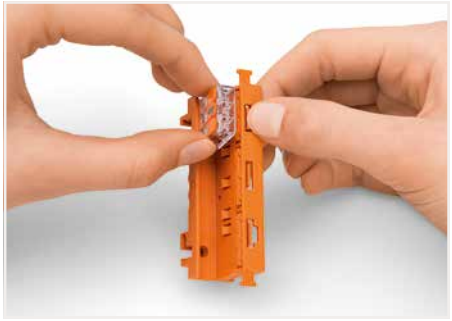
ENEC is the European mark for electrical products that demonstrates compliance with European safety standards. The ENEC mark is subjected to the same EN standards as the VDE mark.

While the VDE mark is only permitted in Germany, the ENEC mark is accepted in more than 20 European countries.

12

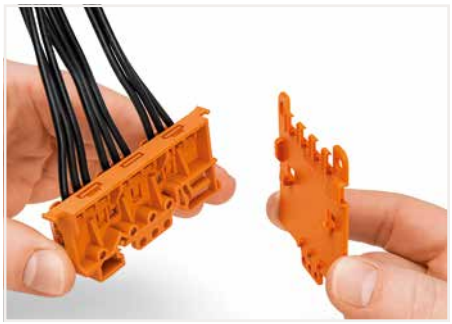
Mounting Carrier
221 Series
Installation

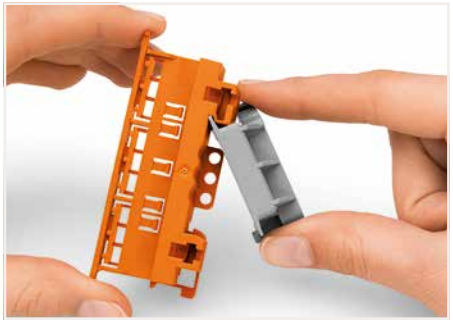
Inserting a connector into the mounting carrier.


Removing a connector from the mounting carrier.

Removing a conductor.

Testing connectors via test slots on top of the carrier.


Securing a strain relief plate (222-505) to the mounting carrier.


Snapping the angled DIN-rail adapter (222-510) onto the mounting carrier.

Strain relief via cable ties on the mounting carrier (transverse to the connectors' wiring direction) – clamping units labeled via marking strips (210-334)

Vertical mounting with strain relief plate on DIN-35 rail

Horizontal mounting on DIN-35 rail using an angled DIN-rail adapter

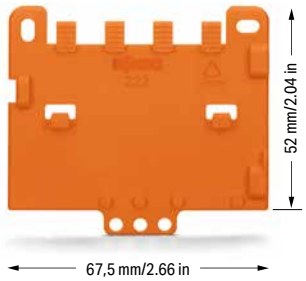
Horizontal screw mounting with strain relief plate on a flat surface

Vertical screw mounting with strain relief plate on a flat surface

Mounting Carrier
221 Series

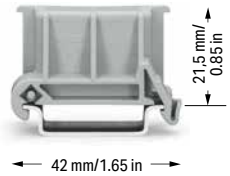
Mounting carrier; for 2-, 3- and 5-wire splicing connectors (4 mm²); 17.5 mm wide

Color	Item No.	Pack. Unit
orange	**221-500**	50 (10)



Strain relief plate; for mounting carrier (221 or 222 Series); snaps on to mounting carrier; 4 mm thick

Color	Item No.	Pack. Unit
orange	**222-505**	50 (10)



Angled DIN-rail adapter; in combination with mounting carrier (221-500 or 222-500) for DIN-35 rail mounting; 18.5 mm wide

Color	Item No.	Pack. Unit
gray	**222-510**	50 (10)

Accessories; item-specific

Marking strip; 5 mm high; 48 self-adhesive strips per card; plain

white	**210-334**	100

12

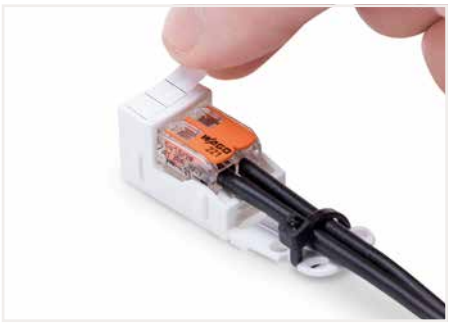
Mounting Carrier; for Single Connectors
221 Series
Installation

Inserting a connector into the mounting carrier.

Removing a connector from the mounting carrier.

Inserting a conductor.

Use a cable tie to secure the conductors to the strain relief plate.


Labeling the mounting carrier.

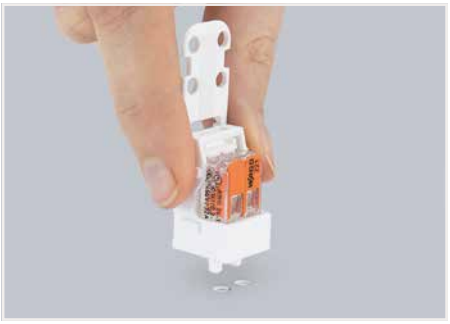
Testing a connector mounted on the carrier via test slot.

The strain relief plate can be removed.

Horizontal screw mounting

Vertical screw mounting

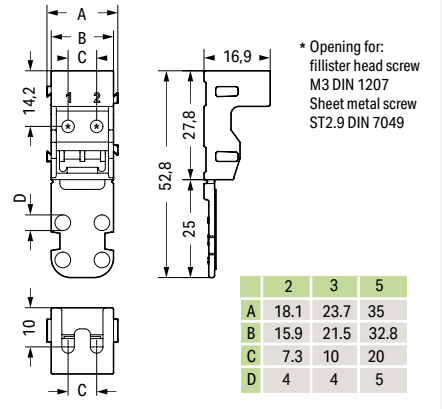
Horizontal mounting via snap-in foot


Vertical mounting via snap-in foot

Connecting a light to the mains.

Mounting Carrier; for Single Connectors
221 Series

Dimensions in mm



	2	3	5
A	18.1	23.7	35
B	15.9	21.5	32.8
C	7.3	10	20
D	4	4	5

Mounting carrier; for 2-wire connectors (4 mm²); for screw mounting
Dimensions from the surface (mm) W x H x D
18.1 x 16.9 x 52.8

Color	Item No.	Pack. Unit
○ white	221-502	50 (10)
● black	221-502/000-004	50 (10)

Mounting carrier; for 2-wire connectors (4 mm²); with snap-in mounting foot for horizontal mounting
Dimensions from the surface (mm) W x H x D
18.1 x 16.9 (+ 4.5 snap-in mounting foot) x 52.8

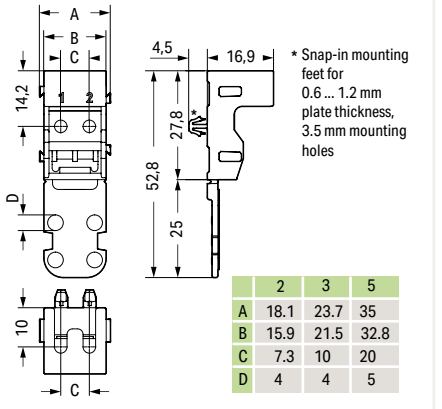
Color	Item No.	Pack. Unit
○ white	221-512	50 (10)
● black	221-512/000-004	50 (10)

Mounting carrier; for 2-wire connectors (4 mm²); with snap-in mounting foot for vertical mounting
Dimensions from the surface (mm) W x H x D
18.1 x 52.8 (+ 4.5 snap-in mounting foot) x 16.9

Color	Item No.	Pack. Unit
○ white	221-522	50 (10)
● black	221-522/000-004	50 (10)

More information on dimensions is available upon request.

Dimensions in mm



	2	3	5
A	18.1	23.7	35
B	15.9	21.5	32.8
C	7.3	10	20
D	4	4	5

Mounting carrier; for 3-wire connectors (4 mm²); for screw mounting
Dimensions from the surface (mm) W x H x D
18.1 x 16.9 x 52.8

Color	Item No.	Pack. Unit
○ white	221-503	50 (10)
● black	221-503/000-004	50 (10)

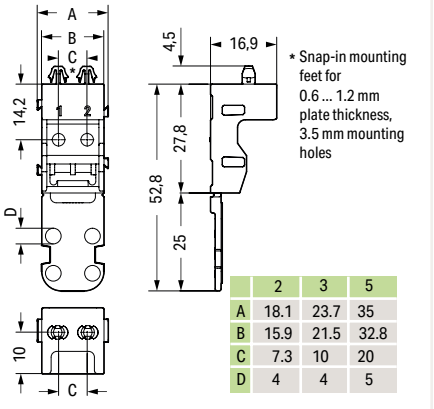
Mounting carrier; for 3-wire connectors (4 mm²); with snap-in mounting foot for horizontal mounting
Dimensions from the surface (mm) W x H x D
18.1 x 16.9 (+ 4.5 snap-in mounting foot) x 52.8

Color	Item No.	Pack. Unit
○ white	221-513	50 (10)
● black	221-513/000-004	50 (10)

Mounting carrier; for 3-wire connectors (4 mm²); with snap-in mounting foot for vertical mounting
Dimensions from the surface (mm) W x H x D
18.1 x 52.8 (+ 4.5 snap-in mounting foot) x 16.9

Color	Item No.	Pack. Unit
○ white	221-523	50 (10)
● black	221-523/000-004	50 (10)

Dimensions in mm



	2	3	5
A	18.1	23.7	35
B	15.9	21.5	32.8
C	7.3	10	20
D	4	4	5

Mounting carrier; for 5-wire connectors (4 mm²); for screw mounting
Dimensions from the surface (mm) W x H x D
18.1 x 16.9 x 52.8

Color	Item No.	Pack. Unit
○ white	221-505	50 (10)
● black	221-505/000-004	50 (10)

Mounting carrier; for 5-wire connectors (4 mm²); with snap-in mounting foot for horizontal mounting
Dimensions from the surface (mm) W x H x D
18.1 x 16.9 (+ 4.5 snap-in mounting foot) x 52.8

Color	Item No.	Pack. Unit
○ white	221-515	50 (10)
● black	221-515/000-004	50 (10)

Mounting carrier; for 5-wire connectors (4 mm²); with snap-in mounting foot for vertical mounting
Dimensions from the surface (mm) W x H x D
18.1 x 52.8 (+ 4.5 snap-in mounting foot) x 16.9

Color	Item No.	Pack. Unit
○ white	221-525	50 (10)
● black	221-525/000-004	50 (10)

Accessories; item-specific

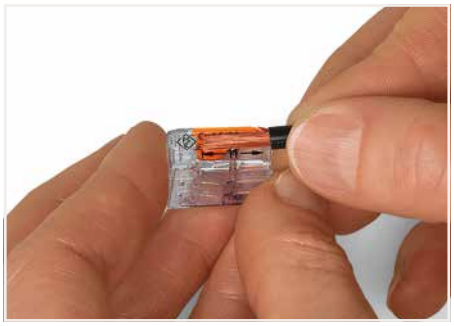
Marking strip; 5 mm high; 48 self-adhesive strips per card; plain

white 210-334 100

12

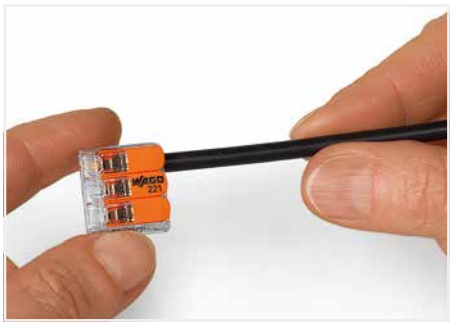
CAGE CLAMP®

COMPACT Splicing Connectors for All Conductor Types
221 Series
Description and Installation

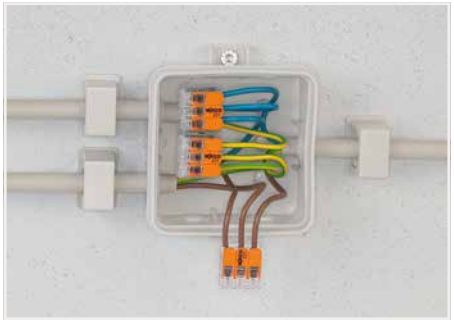


Strip conductor to 12 … 14 mm (0.47 … 0.55 inch).

Termination: Lift the lever to open the clamping unit and insert a stripped conductor.



Then, lower the lever to close the clamp.



Wiring fine-stranded conductors in a junction box.

Custom low-voltage lighting system

Wiring fine-stranded conductors in a junction box for in-floor heating.

Lighting distribution in ceiling canopy

Pendant light connection in suspended ceilings

CAGE CLAMP® terminates the following copper conductors:
solid
stranded
fine-stranded, also with tinned single strands
fine-stranded, tip-bonded

CAGE CLAMP®

COMPACT Splicing Connector for All Conductor Types and Mounting Carrier
6 mm²; 221 Series

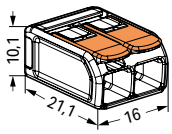
Technical Data	
0.5 … 6 mm²	20 … 10 AWG
450 V/4 kV/2 ❶	600 V, 20 A
I_N 41 A	
12 … 14 mm / 0.47 … 0.55 inch	

Technical Data	
0.5 … 6 mm²	20 … 10 AWG
450 V/4 kV/2 ❶	600 V, 20 A
I_N 41 A	
12 … 14 mm / 0.47 … 0.55 inch	

❶ 450 V = rated voltage
4 kV = rated impulse voltage
2 = pollution degree
(see Section 14)

Approvals and corresponding ratings, visit www.wago.com

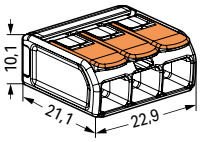
Dimensions in mm



COMPACT splicing connector for all conductor types; 2-wire connector; with levers; Continuous operating temperature (max.): 105 °C; Surrounding air temperature: 85 °C (T85)

	Item No.	Pack. Unit
	221-612	500 (50)

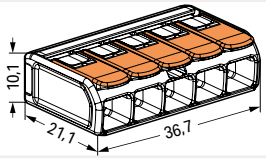
Dimensions in mm



COMPACT splicing connector for all conductor types; 3-wire connector; with levers; Continuous operating temperature (max.): 105 °C; Surrounding air temperature: 85 °C (T85)

	Item No.	Pack. Unit
	221-613	300 (30)

Dimensions in mm



COMPACT splicing connector for all conductor types; 5-wire connector; with levers; Continuous operating temperature (max.): 105 °C; Surrounding air temperature: 85 °C (T85)

	Item No.	Pack. Unit
	221-615	150 (15)

Mounting carrier; for 2-, 3- and 5-wire splicing connectors (6 mm²); 19.3 mm wide

Color	Item No.	Pack. Unit
orange	221-510	50 (10)

Accessories; item-specific

Marking strip; 5 mm high; 48 self-adhesive strips per card; plain

white	210-334	100

Compact, lever-operated splicing connectors:
Connect up to five stripped conductors from 0.5 to 6 mm² (20 … 10 AWG) – without tools!

How these work:
Pull up one of the orange operating levers to open the clamping unit. Then insert the conductor and push the lever back down, flush with the connector housing.

Safety:
The lever's specially designed rest position reliably prevents accidental unclamping of a connected conductor. Application safety, for any type of conductor (solid, stranded, fine-stranded), is confirmed by approvals like ENEC or UL.

ENEC is the European mark for electrical products that demonstrates compliance with European safety standards. The ENEC mark is subjected to the same EN standards as the VDE mark.

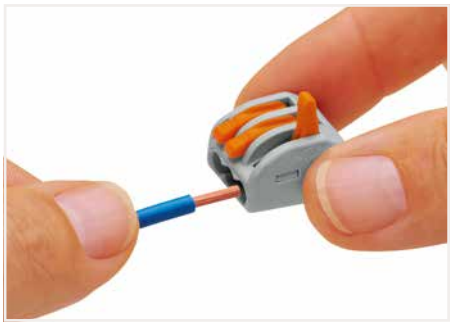
While the VDE mark is only permitted in Germany, the ENEC mark is accepted in more than 20 European countries.

12

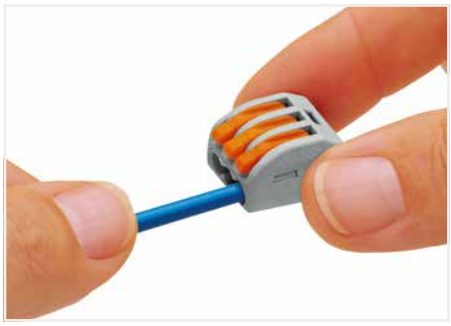
CAGE CLAMP®

CLASSIC Splicing Connectors for All Conductor Types
222 Series
Description and Installation

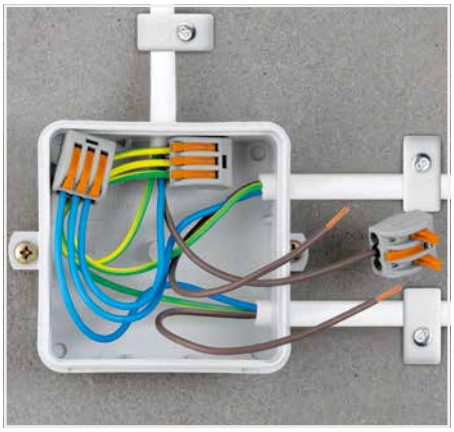
Strip conductor to 9 … 10 mm (0.35 … 0.39 inch).



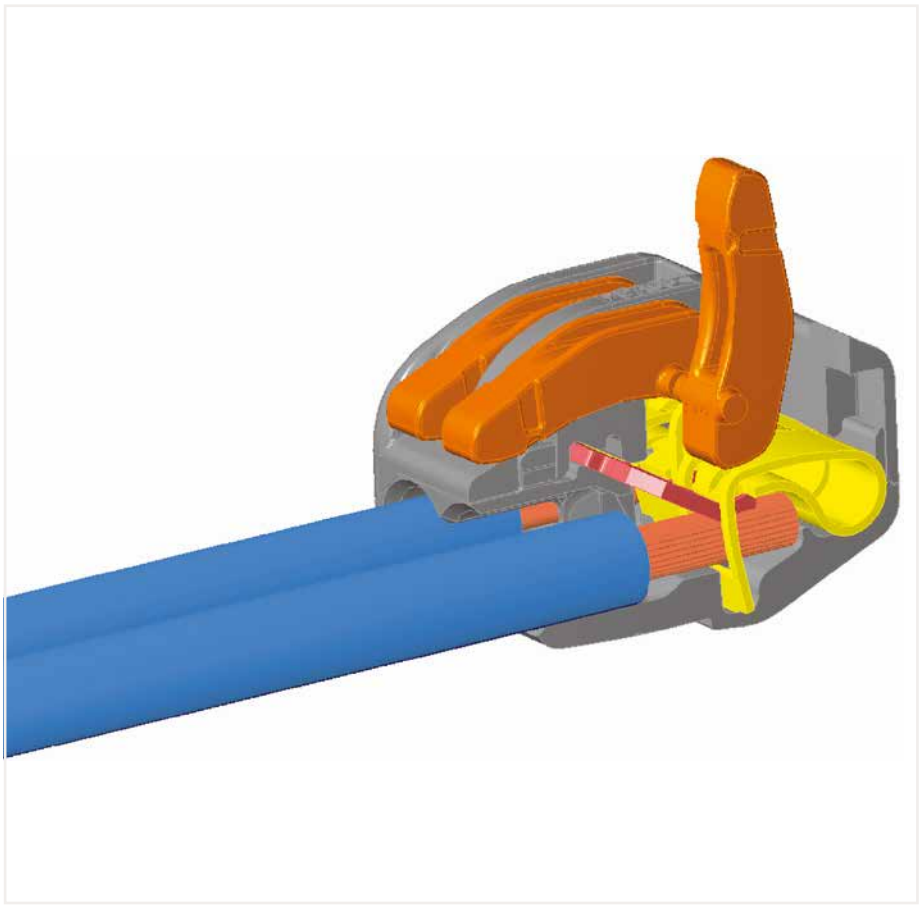
Termination: Lift the lever to open the clamping unit and insert a stripped conductor.



Then, lower the lever to close the clamp.



Wiring fine-stranded conductors in a junction box.



Testing the wired connectors.

12

CAGE CLAMP® terminates the following copper conductors:					
solid	stranded	fine-stranded, also with tinned single strands	fine-stranded, tip-bonded	fine-stranded, with ferrule (gastight crimped)	fine-stranded, with pin terminal (gastight crimped)

For aluminum conductors, see notes in Section 14. With ferruled conductors, it is necessary to use a terminal block one size smaller than the conductor's nominal cross section.

CAGE CLAMP®

CLASSIC Splicing Connector for All Conductor Types
2.5 mm²; 222 Series

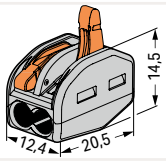
Technical Data	
0.08 … 2.5 mm² “s+str”	28 … 12 AWG “s+st”
0.08 … 4 mm² “f-st”	28 … 12 AWG “f-st”
400 V/4 kV/2 ❶	600 V, 20 A
I_N 32 A	
9 … 10 mm / 0.35 … 0.39 inch	

Technical Data	
0.08 … 2.5 mm² “s+str”	28 … 12 AWG “s+st”
0.08 … 4 mm² “f-st”	28 … 12 AWG “f-st”
400 V/4 kV/2 ❶	600 V, 20 A
I_N 32 A	
9 … 10 mm / 0.35 … 0.39 inch	

❶ In grounded power lines
400 V = rated voltage
4 kV = rated impulse voltage
2 = pollution degree
(see Section 14)

Approvals and corresponding ratings, visit www.wago.com

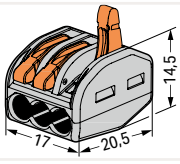
Dimensions in mm



Splicing connector for all conductor types; 2-wire connector; with levers; Continuous operating temperature (max.): 85 °C; Surrounding air temperature (max.): 40 °C

Color	Item No.	Pack. Unit
gray	222-412	500 (50)

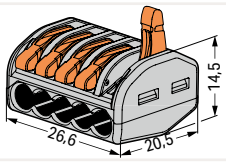
Dimensions in mm



Splicing connector for all conductor types; 3-wire connector; with levers; Continuous operating temperature (max.): 85 °C; Surrounding air temperature (max.): 40 °C

Color	Item No.	Pack. Unit
gray	222-413	500 (50)

Dimensions in mm



Splicing connector for all conductor types; 5-wire connector; with levers; Continuous operating temperature (max.): 85 °C; Surrounding air temperature (max.): 40 °C

Color	Item No.	Pack. Unit
gray	222-415	400 (40)

Compact, lever-operated splicing connectors:
Tool-free connection of up to five stripped, fine-stranded conductors from 0.08 … 4 mm² (28 … 12 AWG), as well as solid or stranded conductors up to 2.5 mm² (12 AWG).

How these work:
Pull up one of the orange operating levers to open the clamping unit so that the lever engages and keeps the clamp in its opened position. Then insert the conductor and push the lever back down, flush with the connector housing.

Safety:
The lever’s specially designed rest position reliably prevents accidental unclamping of a connected conductor. Application safety, for any type of conductor (solid, stranded, fine-stranded), is confirmed by approvals like ENEC or UL.

ENEC is the European mark for electrical products that demonstrates compliance with European safety standards. The ENEC mark is subjected to the same EN standards as the VDE mark.

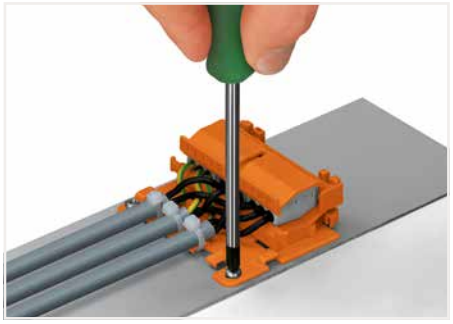
While the VDE mark is only permitted in Germany, the ENEC mark is accepted in more than 20 European countries.

12

Mounting Carrier
222 Series
Installation

Horizontal mounting on DIN-35 rail using an angled DIN-rail adapter

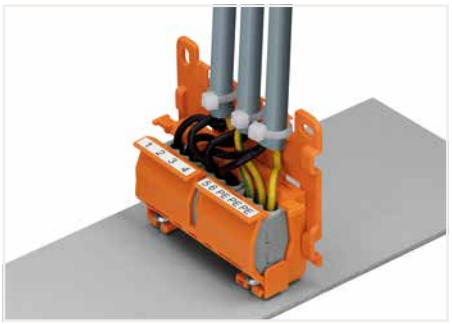
Horizontal mounting with strain relief plate on DIN-35 rail using an angled DIN-rail adapter



Horizontal screw mounting with strain relief plate on a flat surface

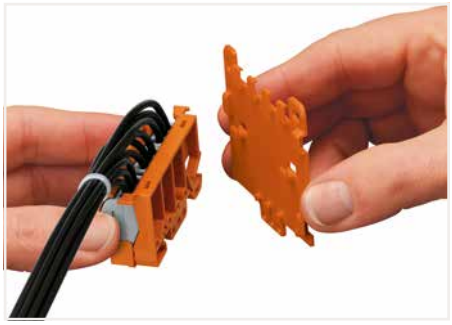
Vertical mounting with strain relief plate on DIN-35 rail; Marking clamping units via marking strips.

Strain relief via cable ties on the mounting carrier (transverse to the connectors' wiring direction); Molded marking clamping units

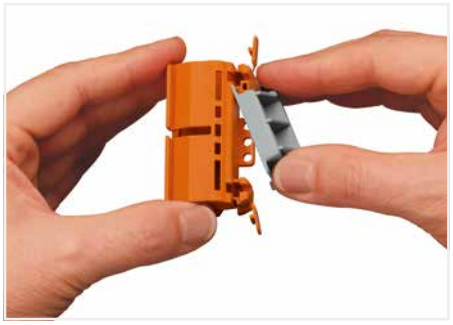


Mounting carrier with strain relief plate mounted vertically on a plate;
Round cable secured via strain relief lug.

Snapping the lateral connector safety lock onto the mounting carrier.



Securing a strain relief plate to the mounting carrier.

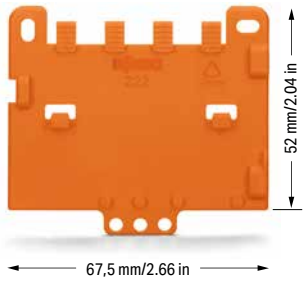


Snapping the angled DIN-rail adapter onto the mounting carrier.

Mounting Carrier
222 Series

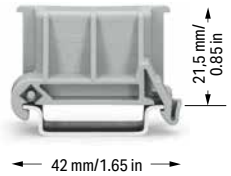
Mounting carrier; for 2-, 3- and 5-wire splicing connectors; 22 mm wide

Color	Item No.	Pack. Unit
orange	**222-500**	50 (10)



Strain relief plate; for mounting carrier (221 or 222 Series); snaps on to mounting carrier; 4 mm thick

Color	Item No.	Pack. Unit
orange	**222-505**	50 (10)



Angled DIN-rail adapter; in combination with mounting carrier (221-500 or 222-500) for DIN-35 rail mounting; 18.5 mm wide

Color	Item No.	Pack. Unit
gray	**222-510**	50 (10)

Accessories; item-specific

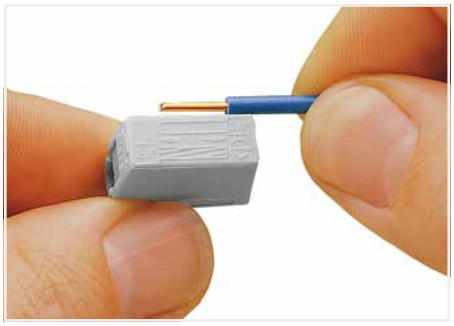
Marking strip; 5 mm high; 48 self-adhesive strips per card; plain

white	**210-334**	100

12

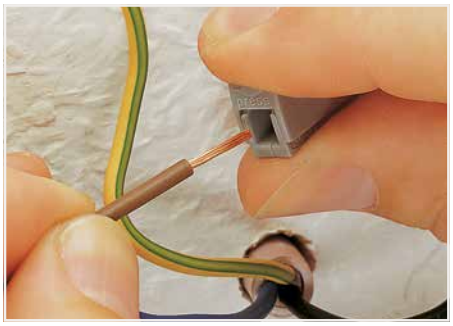
PUSH WIRE® CAGE CLAMP®

Lighting Connectors; 224 Series
Lighting Side and Installation Side
Description and Installation



Strip conductor to 9 … 11 mm (0.35 … 0.43 inch).

To connect: Press button fully, insert stripped conductor into square entry and release.



To remove: Press button and withdraw conductor.

Lighting side

CAGE CLAMP® terminates the following copper conductors:

solid

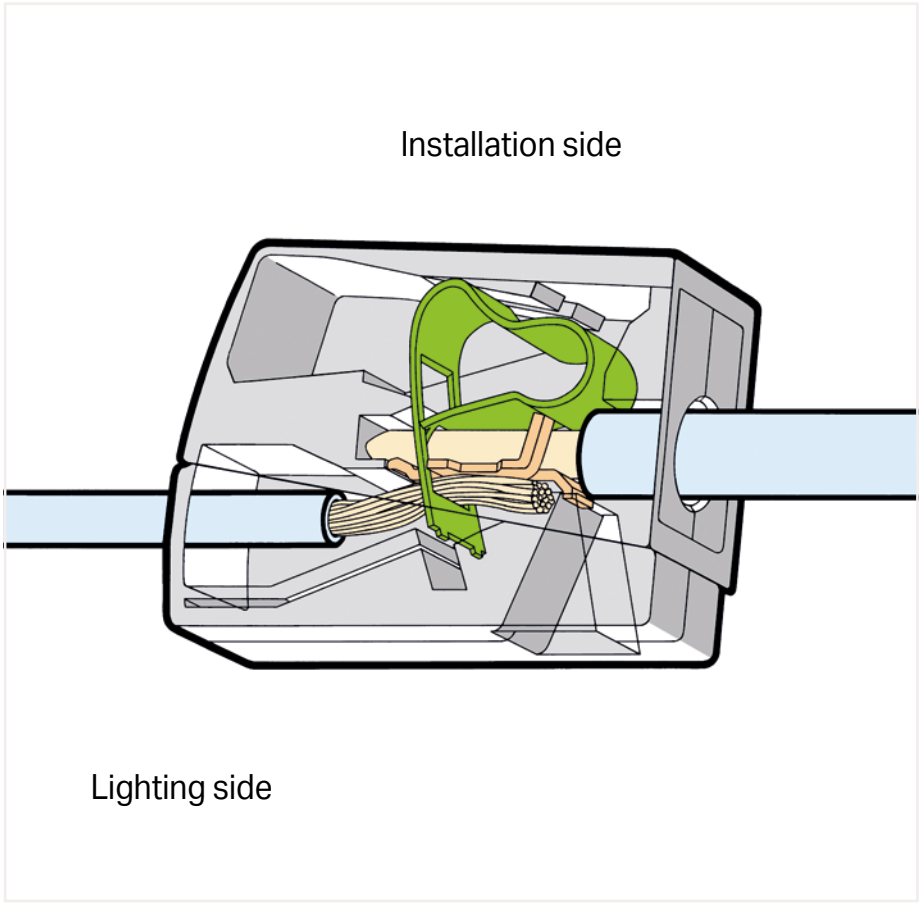
stranded

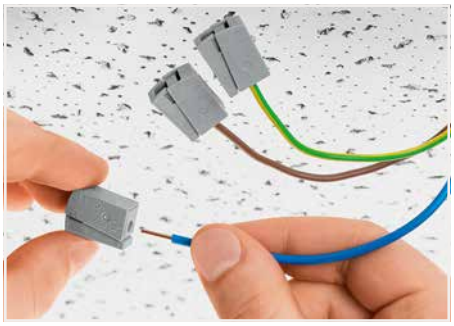
fine-stranded, also with tinned single strands

fine-stranded, tinned (up to 1.5 mm² / 16 AWG)

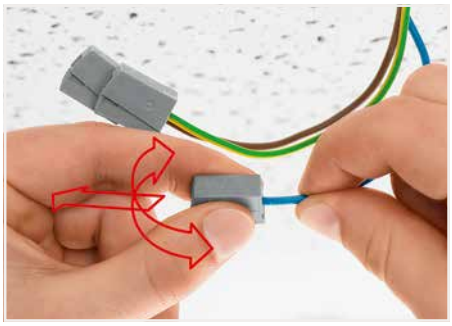
fine-stranded, tip bonded

fine-stranded with ferrule (up to 1.5 mm² / 16 AWG)





To connect: Insert stripped solid conductor into circular entry and push until it hits the backstop.



To remove: Hold conductor to be removed and twist alternately left and right while slightly pulling the connector.

Testing via separate test ports.

Installation side

PUSH WIRE® terminates the following copper conductors:
solid

For aluminum conductors, see notes in Section 14.

PUSH WIRE® CAGE CLAMP®

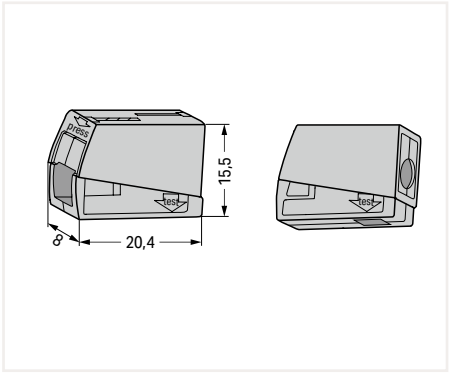
Lighting Connector and Service Connector
2.5 mm², 224 Series

Technical Data	
Installation side	
1 … 2.5 mm² “s”	14 … 12 AWG
Lighting side	
0.5 … 2.5 mm² “s+f-st”	20 … 16 AWG
400 V/4 kV/2	300 V, 20 A
I_N 24 A	300 V, 20 A
9 … 11 mm / 0.35 … 0.43 inch	

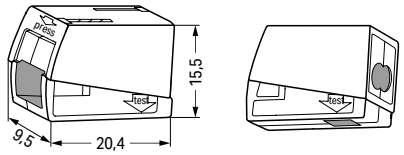
Technical Data	
Installation side	
1 … 2.5 mm² “s”	16 … 14 AWG
Lighting side	
0.5 … 2.5 mm² “s+f-st”	20 … 16 AWG
400 V/4 kV/2	300 V, 20 A
I_N 24 A	300 V, 20 A
9 … 11 mm / 0.35 … 0.43 inch	

Technical Data	
0.5 … 2.5 mm² “s+f-st”	20 … 16 AWG
400 V/4 kV/2	300 V, 20 A
I_N 24 A	
9 … 11 mm / 0.35 … 0.43 inch	

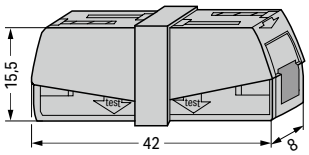
Dimensions in mm



Dimensions in mm



Dimensions in mm



Lighting connector; Standard version; Continuous operating temperature (max.): 105 °C; Surrounding air temperature (max.): 60 °C		
Color	Item No.	Pack. Unit
gray	224-101	1000 (100)

2-wire lighting connector; Standard version; Continuous operating temperature (max.): 105 °C; Surrounding air temperature (max.): 60 °C		
Color	Item No.	Pack. Unit
white	224-112	1000 (100)

Service connector		
Color	Item No.	Pack. Unit
gray	224-201	50

Lighting connector; Version for increased continuous operating temperature: 120 °C; Surrounding air temperature (max.): 75 °C		
black	224-104	100

2-wire lighting connector; Version for increased continuous operating temperature: 120 °C; Surrounding air temperature (max.): 75 °C		
black	224-114	100

Accessories; 224 Series

Syringe; contains 20 ml “Alu-Plus” Contact Paste		
	249-130	20 (5)

12

Splicing Connector Set
887 Series

Splicing connector set; Vario-T-BOXX; 222, 224, 243, 2273 Series

Item No.	Pack. Unit
887-910	1

Contains:

COMPACT PUSH WIRE® Connectors for Junction Boxes

white	2 x 0.5 … 2.5 mm²	2273-202	100
orange	3 x 0.5 … 2.5 mm²	2273-203	100
yellow	5 x 0.5 … 2.5 mm²	2273-205	100
light gray	8 x 0.5 … 2.5 mm²	2273-208	50

Splicing Connectors

gray	3 x 0.08 … 4 mm²	222-413	50
gray	5 x 0.08 … 4 mm²	222-415	40

Lighting Connectors

white	1 … 2.5 mm² “s”	224-101	100

MICRO PUSH WIRE® Connectors for Junction Boxes

dark gray	4 x 0.6 … 0.8 mm Ø	243-204	100
red	4 x 0.6 … 0.8 mm Ø	243-804	100
dark gray	8 x 0.6 … 0.8 mm Ø	243-208	50

Mounting Carrier
for 6 connectors

243-113	10		

Splicing connector set; Vario-T-BOXX; 221, 224, 243, 773, 2273 Series

Item No.	Pack. Unit
887-912	1

Contains:

COMPACT PUSH WIRE® Connectors for Junction Boxes

orange	3 x 0.5 … 2.5 mm²	2273-203	100
yellow	5 x 0.5 … 2.5 mm²	2273-205	100
light gray	8 x 0.5 … 2.5 mm²	2273-208	50

COMPACT Splicing Connectors

transparent	3 x 0.14 … 4 mm²	221-413	50
transparent	5 x 0.14 … 4 mm²	221-415	25

Lighting Connectors

white	2x 1 … 2.5 mm² “s”	224-112	100

PUSH WIRE® Connectors for Junction Boxes

red	1.5 … 4 mm² “s”	773-604	100

MICRO PUSH WIRE® Connectors for Junction Boxes

dark gray	4 x 0.6 … 0.8 mm Ø	243-204	100
red	4 x 0.6 … 0.8 mm Ø	243-804	100
dark gray	8 x 0.6 … 0.8 mm Ø	243-208	50

Mounting Carrier
for 6 connectors

243-113	10		

Splicing connector set; L-BOXX® 102; 221, 224, 243, 773, 2273 Series

Item No.	Pack. Unit
887-913	1

Contains:

COMPACT PUSH WIRE® Connectors for Junction Boxes

orange	3 x 0.5 … 2.5 mm²	2273-203	100
yellow	5 x 0.5 … 2.5 mm²	2273-205	100
light gray	8 x 0.5 … 2.5 mm²	2273-208	50

COMPACT Splicing Connectors

transparent	2 x 0.14 … 4 mm²	221-412	100
transparent	3 x 0.14 … 4 mm²	221-413	50
transparent	5 x 0.14 … 4 mm²	221-415	25

Lighting Connectors

white	2 x 1 … 2.5 mm² “s”	224-112	100

PUSH WIRE® Connectors for Junction Boxes

red	2.5 … 6 mm² “s+st”	773-173	50

MICRO PUSH WIRE® Connectors for Junction Boxes

dark gray	4 x 0.6 … 0.8 mm Ø	243-204	100
dark gray	8 x 0.6 … 0.8 mm Ø	243-208	50

Mounting Carrier

orange		221-500	4

Splicing connector set; L-BOXX® 102; 221 Series; 4 mm² and 6 mm²

Item No.	Pack. Unit
887-921	1

Contains:

COMPACT PUSH WIRE® Connectors for Junction Boxes

transparent	3 x 0.5 … 6 mm²	221-613	30

COMPACT Splicing Connectors

transparent	2 x 0.14 … 4 mm²	221-412	100
transparent	3 x 0.14 … 4 mm²	221-413	250
transparent	5 x 0.14 … 4 mm²	221-415	25

Mounting Carrier

orange		221-500	10

Splicing connector set; L-BOXX® 102; 221, 2273 Series

Item No.	Pack. Unit
887-917	1

Contains:

COMPACT PUSH WIRE® Connectors for Junction Boxes

white	2 x 0.5 … 2.5 mm²	2273-202	100
orange	3 x 0.5 … 2.5 mm²	2273-203	100
red	4 x 0.5 … 2.5 mm²	2273-204	100
yellow	5 x 0.5 … 2.5 mm²	2273-205	100
light gray	8 x 0.5 … 2.5 mm²	2273-208	50

COMPACT Splicing Connectors

transparent	2 x 0.14 … 4 mm²	221-412	100
transparent	3 x 0.14 … 4 mm²	221-413	100
transparent	5 x 0.14 … 4 mm²	221-415	25

Mounting Carrier

orange	2273-500	2

Mounting Carrier

orange	221-500	2

Splicing connector set; L-BOXX® 102; 221 Series

Item No.	Pack. Unit
887-918	1

Contains:

COMPACT Splicing Connectors

transparent	2 x 0.14 … 4 mm²	221-412	100
transparent	3 x 0.14 … 4 mm²	221-413	250
transparent	5 x 0.14 … 4 mm²	221-415	50

Mounting Carrier

orange	221-500	10

Splicing connector set; L-BOXX® 102; 221 Series; 4 mm² and 6 mm²

Item No.	Pack. Unit
887-920	1

Contains:

COMPACT PUSH WIRE® Connectors for Junction Boxes

transparent	2 x 0.5 … 6 mm²	221-612	50
transparent	3 x 0.5 … 6 mm²	221-613	30
transparent	5 x 0.5 … 6 mm²	221-615	5

COMPACT Splicing Connectors

transparent	2 x 0.14 … 4 mm²	221-412	200
transparent	3 x 0.14 … 4 mm²	221-413	150
transparent	5 x 0.14 … 4 mm²	221-415	25

Mounting Carrier

orange	221-510	2

Mounting Carrier

orange	221-500	2

Splicing Connector Set
887 Series

Splicing connector set; L-BOXX® Mini; 221 Series

Item No.	Pack. Unit
887-952	1

Contains:

COMPACT Splicing Connectors

transparent	2 x 0.14 … 4 mm²	221-412	100
transparent	3 x 0.14 … 4 mm²	221-413	100
transparent	5 x 0.14 … 4 mm²	221-415	25

Mounting Carrier

orange		221-500	4

Splicing connector set; L-BOXX® Mini; 2273 Series

Item No.	Pack. Unit
887-953	1

Contains:

COMPACT PUSH WIRE® Connectors for Junction Boxes

white	2 x 0.5 … 2.5 mm²	2273-202	100
orange	3 x 0.5 … 2.5 mm²	2273-203	100
red	4 x 0.5 … 2.5 mm²	2273-204	100
yellow	5 x 0.5 … 2.5 mm²	2273-205	75
light gray	8 x 0.5 … 2.5 mm²	2273-208	25

Mounting Carrier

orange		2273-500	4

Splicing connector set; L-BOXX® Mini; 221, 2273 Series

Item No.	Pack. Unit
887-955	1

Contains:

COMPACT PUSH WIRE® Connectors for Junction Boxes

orange	3 x 0.5 … 2.5 mm²	2273-203	100
yellow	5 x 0.5 … 2.5 mm²	2273-205	75
light gray	8 x 0.5 … 2.5 mm²	2273-208	25

COMPACT Splicing Connectors

transparent	2 x 0.14 … 4 mm²	221-412	75
transparent	3 x 0.14 … 4 mm²	221-413	50
transparent	5 x 0.14 … 4 mm²	221-415	25

Mounting Carrier

orange		2273-500	1

Mounting Carrier

orange		221-500	1

Set; L-BOXX® Mini

Item No.	Pack. Unit
887-957	1

Contains:

COMPACT PUSH WIRE® Connectors for Junction Boxes

transparent	2 x 0.5 … 6 mm²	221-612	40
transparent	3 x 0.5 … 6 mm²	221-613	30
transparent	5 x 0.5 … 6 mm²	221-615	15

COMPACT Splicing Connectors

transparent	2 x 0.14 … 4 mm²	221-412	75
transparent	3 x 0.14 … 4 mm²	221-413	50
transparent	5 x 0.14 … 4 mm²	221-415	25

Mounting Carrier

orange	221-500	1

Splicing connector set; L-BOXX® Mini; 221 Series; 4 mm² and 6 mm²

Item No.	Pack. Unit
887-959	1

Contains:

COMPACT PUSH WIRE® Connectors for Junction Boxes

transparent	2 x 0.14 … 4 mm²	221-412	100
transparent	3 x 0.14 … 4 mm²	221-413	100
transparent	5 x 0.14 … 4 mm²	221-415	25

COMPACT Splicing Connectors

transparent	3 x 0.5 … 6 mm²	221-613	30

Splicing connector set; L-BOXX® Mini; 221, 2273, 224 Series

Item No.	Pack. Unit
887-960	1

Contains:

COMPACT PUSH WIRE® Connectors for Junction Boxes

white	2 x 0.5 … 2.5 mm²	2273-202	40
orange	3 x 0.5 … 2.5 mm²	2273-203	30
red	4 x 0.5 … 2.5 mm²	2273-204	25
yellow	5 x 0.5 … 2.5 mm²	2273-205	20
light gray	8 x 0.5 … 2.5 mm²	2273-208	15

COMPACT PUSH WIRE® Connectors for Junction Boxes

transparent	2 x 0.14 … 4 mm²	221-412	20
transparent	3 x 0.14 … 4 mm²	221-413	15
transparent	5 x 0.14 … 4 mm²	221-415	10

COMPACT PUSH WIRE® Connectors for Junction Boxes

transparent	3 x 0.5 … 6 mm²	221-613	5

Lighting Connectors

white	1 … 2.5 mm² “s”	224-112	15

PUSH WIRE®

Luminaire Disconnect Connector (U.S. Version)
12 AWG; 873 Series

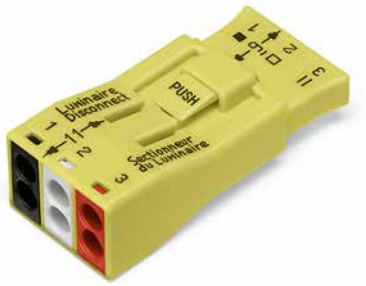
Technical Data	
2-conductor plug ❶	1-conductor socket ❷
18 … 12 AWG "s"	18 AWG "s"
16 … 12 AWG "st"	600 V, 6 A
11 … 13 mm / 0.43 … 0.51 inch ❶	
9 … 11 mm / 0.35 … 0.43 inch ❷	

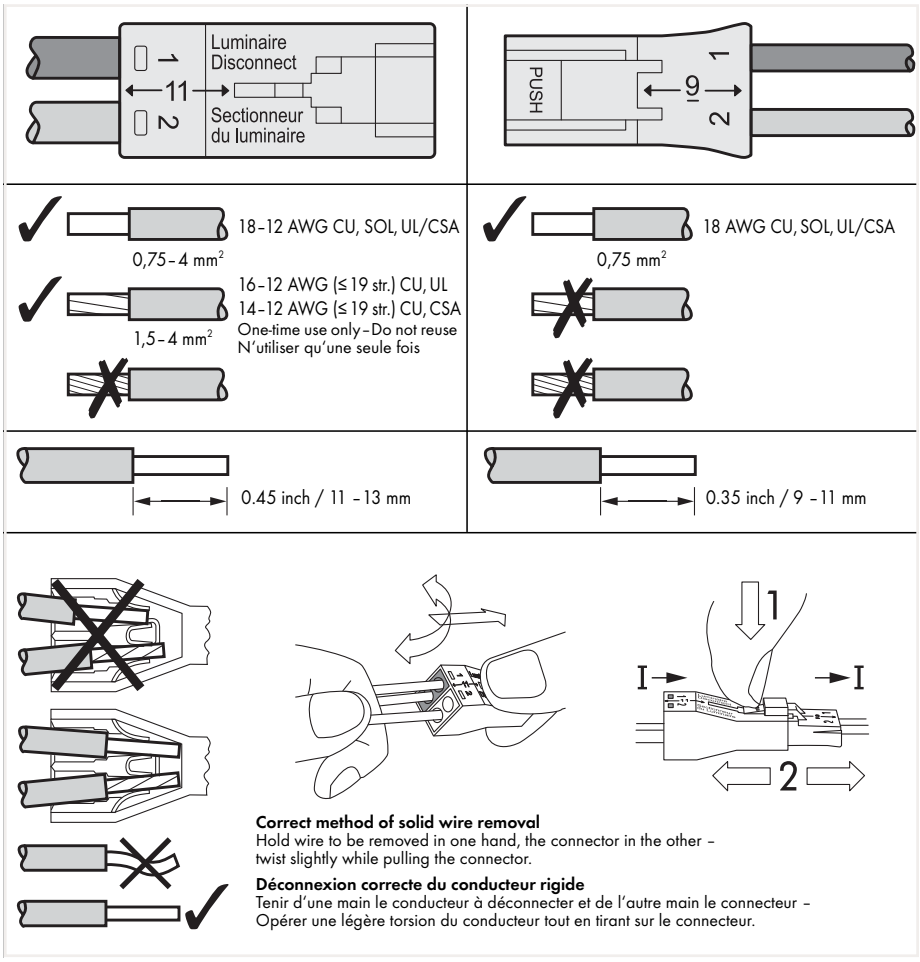
Technical Data	
2-conductor plug ❶	1-conductor socket ❷
18 … 12 AWG "s"	18 AWG "s"
16 … 12 AWG "st"	600 V, 6 A
11 … 13 mm / 0.43 … 0.51 inch ❶	
9 … 11 mm / 0.35 … 0.43 inch ❷	

❶ 2-conductor plug

❷ 1-conductor socket

Approvals and corresponding ratings, visit www.wago.com





Correct method of solid wire removal
Hold wire to be removed in one hand, the connector in the other – twist slightly while pulling the connector.

Déconnexion correcte du conducteur rigide
Tenir d'une main le conducteur à déconnecter et de l'autre main le connecteur – Opérer une légère torsion du conducteur tout en tirant sur le connecteur.

Touchproof connectors are required for ballast supply cables in the USA and Canada. When exchanging a ballast:
1. The touch-proof plug-in connection is disconnected´- first.
2. The ballast is replaced.
3. Network connection is restored by plugging the connection.

Reconnection streamlines ballast replacement while enhancing safety by safeguarding the installer from electric shock. The 873 Series is approved according to UL 2459 and CSA 22.2 for this type of application.

873 Series approvals per EN 60998 and EN 61984:

EN 60998
0.75 mm² (solid), 6 A for socket
1.5 … 4 mm² (solid), 32 A for plug
400 V / 4 kV / 2

EN 61984
0.75 mm² (solid), 6 A for socket
0.75 … 4 mm² (solid), 32 A for plug
400 V / 4 kV / 2

Luminaire Disconnect Connectors		
Pole No.	Item No.	Pack. Unit
2	873-902	400

Luminaire Disconnect Connectors		
Pole No.	Item No.	Pack. Unit
3	873-903	200

12

PUSH WIRE®

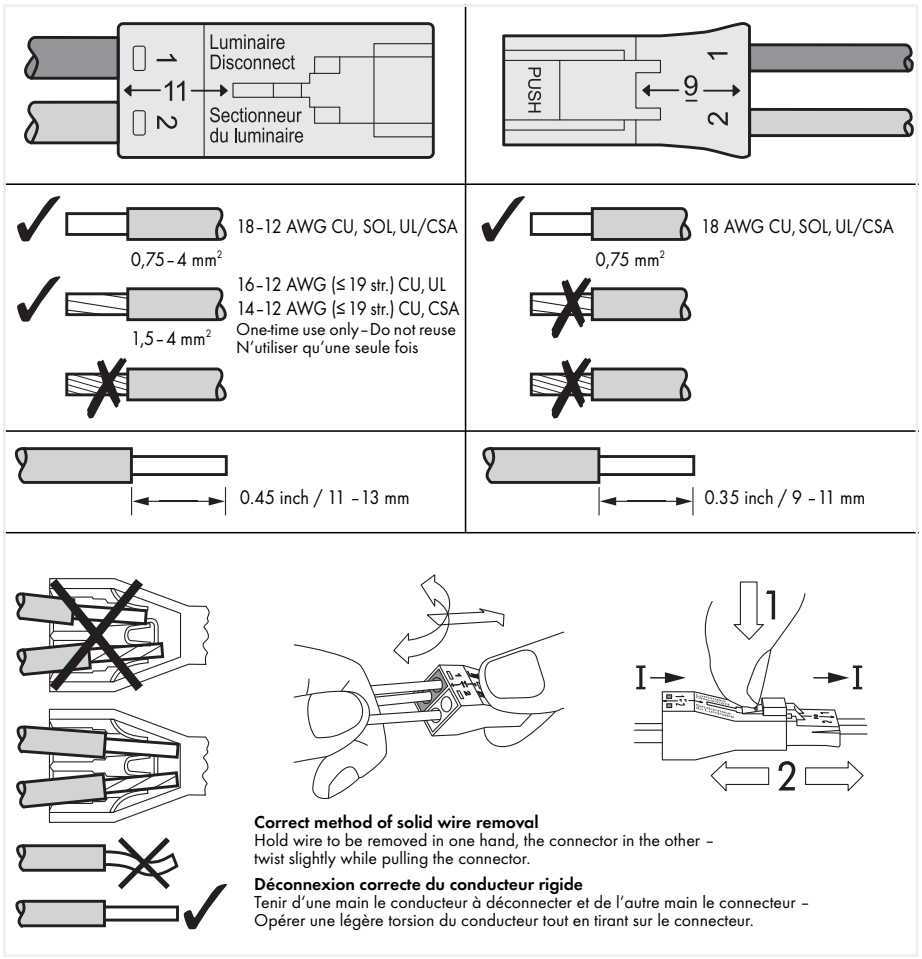
Luminaire Disconnect Connector (U.S. Version)
12 AWG; 873 Series

Technical Data	
2-conductor plug ❶	1-conductor socket ❷
18 … 12 AWG "s"	18 AWG "s"
16 … 12 AWG "st"	600 V, 6 A
11 … 13 mm / 0.43 … 0.51 inch ❶	
9 … 11 mm / 0.35 … 0.43 inch ❷	

❶ 2-conductor plug

❷ 1-conductor socket

Approvals and corresponding ratings, visit www.wago.com



Correct method of solid wire removal
Hold wire to be removed in one hand, the connector in the other – twist slightly while pulling the connector.

Déconnexion correcte du conducteur rigide
Tenir d'une main le conducteur à déconnecter et de l'autre main le connecteur – Opérer une légère torsion du conducteur tout en tirant sur le connecteur.

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EN 60998
0.75 mm² (solid), 6 A for socket
1.5 … 4 mm² (solid), 32 A for plug
400 V / 4 kV / 2

EN 61984
0.75 mm² (solid), 6 A for socket
0.75 … 4 mm² (solid), 32 A for plug
400 V / 4 kV / 2

Luminaire disconnect connector; with preceding ground contact		
Pole No.	Item No.	Pack. Unit
2	873-953	500

12

WAGO Accessories and WAGO Tools

WAGO Accessories and WAGO Tools

			Page
	Shield Clamping Saddles	790 Series	572
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	Cable Cutter		624
	“Alu-Plus” Contact Paste		625
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13

Shield Connection System
790 Series
Installation

Carrier with grounding foot* (790-113),
45 mm long, busbar 90° to the rail

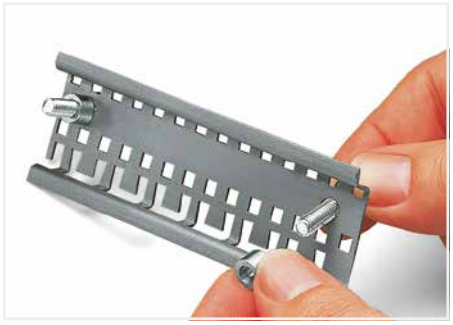
*for all shield clamping saddle sizes

Carrier with grounding foot* (790-114),
45 mm long, busbar parallel to the rail

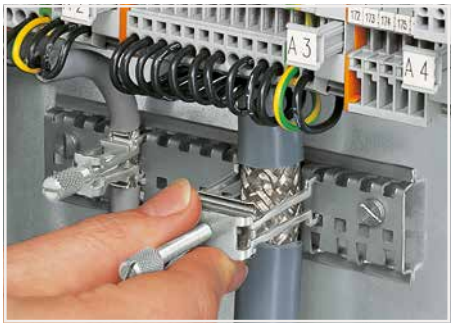
*for all shield clamping saddle sizes

Carrier with grounding foot* (790-115),
125 mm long, busbar parallel to the rail

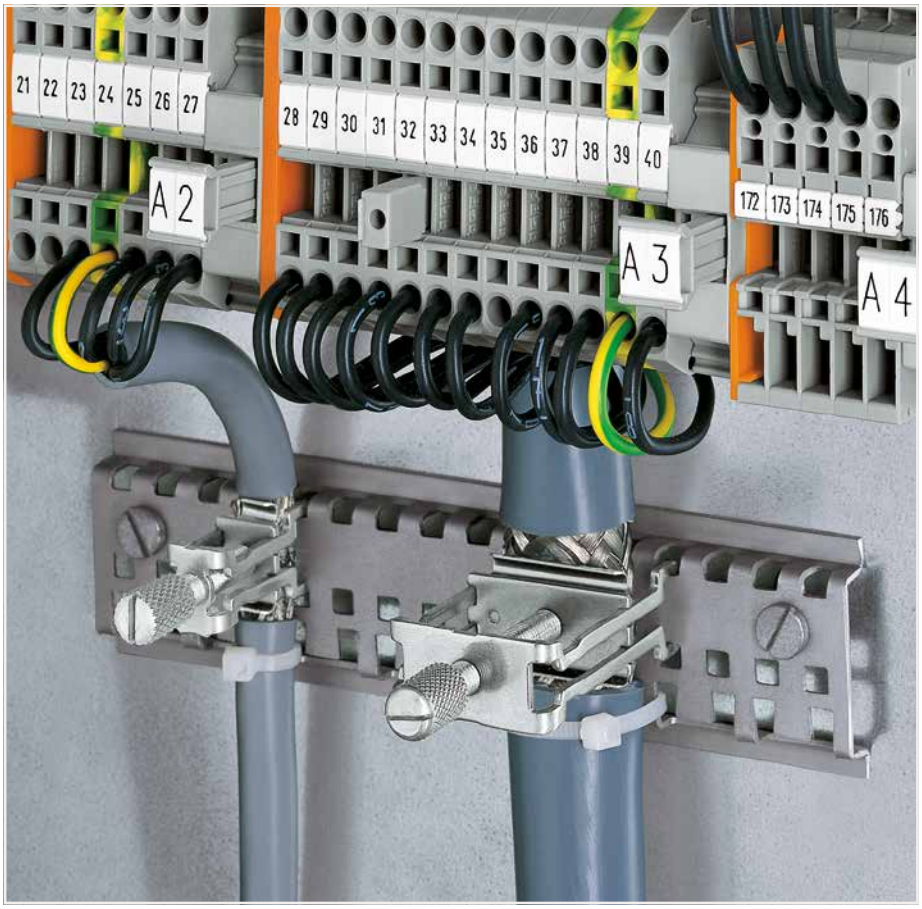
*for all shield clamping saddle sizes



Securing a spacer sleeve to a specialty slotted DIN-rail.



Securing an additional shield clamping saddle.

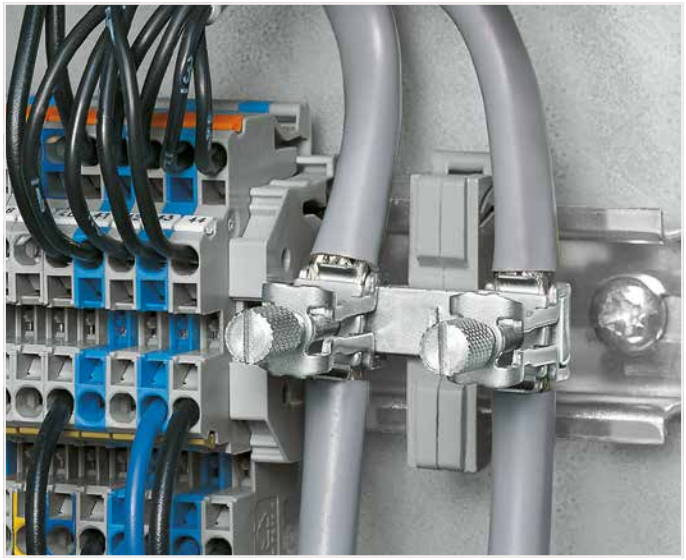


Tightening/removing a shield clamping saddle.

After connection, tighten the knurled screw to complete the installation.
Recommended tightening torque: 0.5 Nm

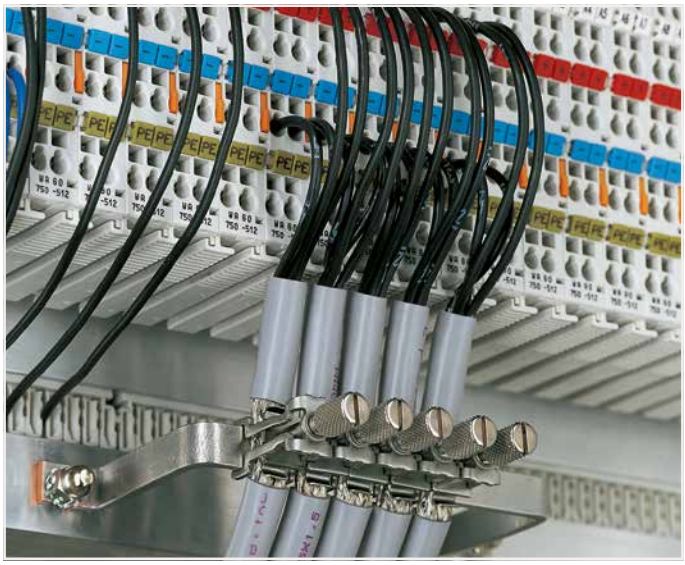
To remove the clamping saddle, unscrew until ratcheted mechanism is released, then slightly tip saddle and remove the clamping saddle.

Shield Connection System
790 Series
Installation

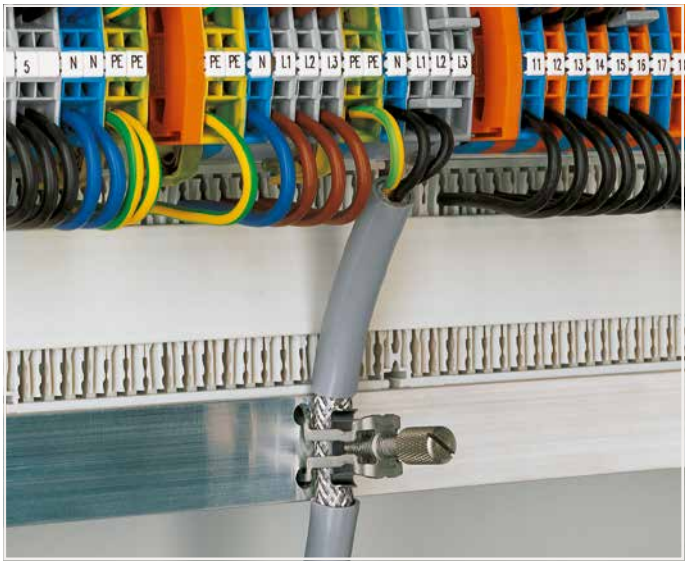


Carrier with grounding foot – busbar parallel to the rail

Insulated mounting carriers for a common shield reference potential, independent of housing potential

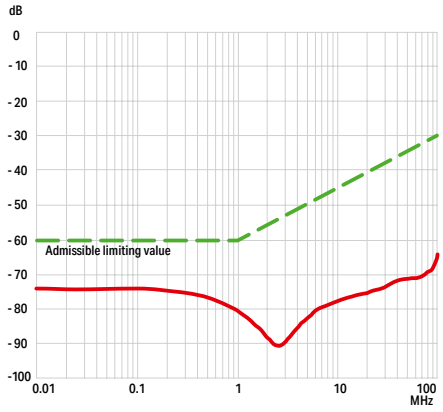


U-shaped (10 x 3) mm copper busbar



Snap shield clamping saddles into any metal plate (max. thickness: 3 mm).

Negative Shield Attenuation

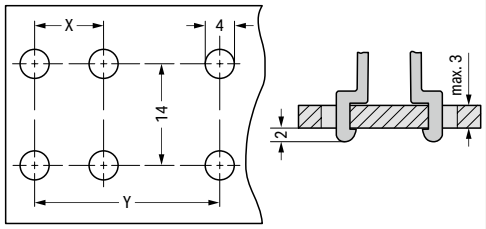


The shield connection system is highly effective because the clamping unit can be brought very close to the unshielded part of the cable.

Hole Dimensions for Panel Mounting

Shield (screen) clamping saddle size

Distance	X
11 mm	9.5 mm
Distance	Y
19 mm	17.5 mm
27 mm	25.5 mm
43 mm	41.5 mm

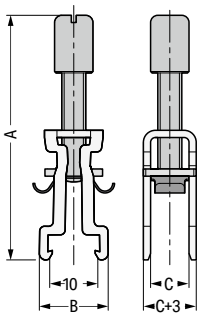


Additionally, the spring material is part of the clamping saddle, providing a good electrical connection (the system also acts as a partial strain relief). The spring element integrated in the shield clamping saddle compensates for deformation and settling that results from a connected shield.

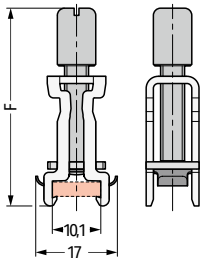
13

Shield Clamping Saddles
790 Series

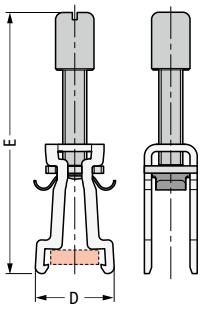
Installation position (delivery state)



Closed position



Removal position



Dimensions in mm

Item No.	A	B	C	D	E	F
790-108	51	15	8	16	55	42
790-116	53	15	16	16	57	45
790-124	78	15	24	16	83	58
790-140	97	15	40	16	100	73

Shield clamping saddle; 11 mm wide; Connectable shield diameter: 3 … 8 mm
Note: Cannot be used for connecting ground conductors!

Item No.	Pack. Unit
790-108	50 (10)

Shield clamping saddle; 19 mm wide; Connectable shield diameter: 7 … 16 mm
Note: Cannot be used for connecting ground conductors!

Item No.	Pack. Unit
790-116	50 (10)

Shield clamping saddle; 27 mm wide; Connectable shield diameter: 6 … 24 mm
Note: Cannot be used for connecting ground conductors!

Item No.	Pack. Unit
790-124	50 (10)

Accessories; for Shield Clamping Saddles

Carrier with grounding foot; Busbar parallel to the rail; 15 mm long; Copper (10 x 3) mm; for shield clamping saddles (790-108)

790-110 25

Carrier with grounding foot; Busbar parallel to the rail; 25 mm long; Copper (10 x 3) mm; for shield clamping saddles (790-108; 790-116) and shield clamps (791-111; 791-117)

790-112 25

Carrier with grounding foot; Busbar 90° to the DIN-rail; 45 mm long; Copper (10 x 3) mm; for shield clamping saddles (790 Series)

790-113 25

Carrier with grounding foot; Busbar parallel to the DIN-rail; 45 mm long; Copper (10 x 3) mm; for shield clamping saddles (790 Series) and shield clamps (791 Series)

790-114 25

Carrier with two grounding feet; Busbar parallel to the DIN-rail; 125 mm long; Copper (10 x 3) mm

790-115 25

DIN-rail; specialty slotted; 1000 mm long; tin-plated

790-145

Spacer sleeve; steel; for DIN-rail; specialty slotted; for M5-size screw;

790-144 200 (100)

Insulated mounting foot; for busbar with M4 x 8 mm screw

790-100 50 (25)

Insulated mounting foot; for busbar with (3.5 x 9) mm sheet metal screw

790-101 50 (25)

Busbar; tin-plated; 1000 mm long; copper (10 x 3) mm

210-133 1

Busbar; tin-plated; 30 mm long; copper (10 x 3) mm

790-133 20

Busbar; tin-plated; 50 mm long; copper (10 x 3) mm

790-134 20

U-shaped busbar; Copper (10 x 3) mm; for 5 I/O; for 750 Series I/O Modules

790-190 25 (5)

U-shaped busbar; Copper (10 x 3) mm; for 8 I/O; for 750 Series I/O Modules

790-191 25

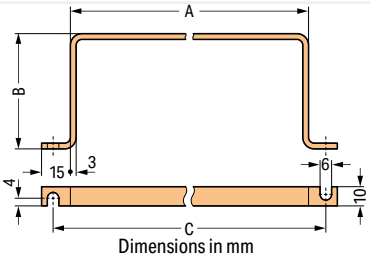
U-shaped busbar; Copper (10 x 3) mm; for 5 I/O; for 750 Series I/O Modules

790-192 25

U-shaped busbar; Copper (10 x 3) mm; for 8 I/O; for 750 Series I/O Modules

790-193 25

13



Dimensions in mm

Item No.	A	B	C	Item No.	A	B	C
for I/O module series 750 (5 E/A)							
790-190	63	60	83	**790-192**	63	35	83
for I/O module series 750 (8 E/A)							
790-191	100	60	118	**790-193**	100	35	118

Shield clamping saddle; 43 mm wide; Connectable shield diameter: 22 … 40 mm
Note: Cannot be used for connecting ground conductors!

Item No.	Pack. Unit
790-140	50 (10)

Carrier with grounding foot* (790-114), 45 mm long, busbar parallel to the rail

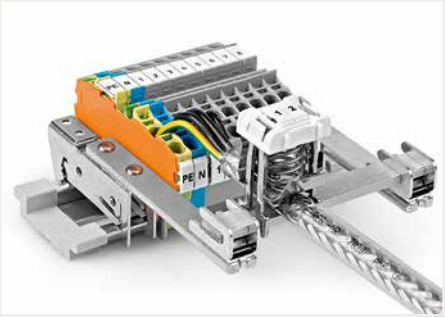
*for all shield clamping saddle sizes

Carrier with grounding foot* (790-115), 125 mm long, busbar parallel to the rail

*for all shield clamping saddle sizes

Spring-Equipped Shield Clamping Saddles
790 Series
Installation

Shield clamping saddles are available in three different sizes for shield diameters ranging from 3 to 20 mm.



Application example

Compress the clamping saddle until fully engaged.

Mounting a clamping saddle on a specialty slotted DIN-rail (790-145).
When releasing the saddle, do not place your finger under the clamping spring!

Removing the shield clamping saddle.

Shield clamping saddle contacts shield conductor and specialty slotted DIN-rail (790-145).

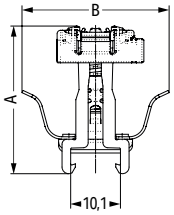
Labeling using a marking strip.

Labelling using WMB markers.

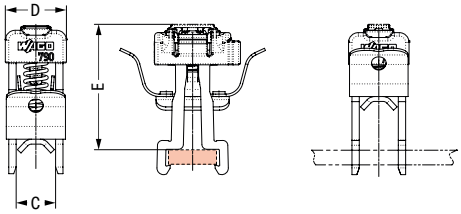
13

Spring-Equipped Shield Clamping Saddles
790 Series

Delivery position



Mounting position



Dimensions in mm

Item No.	A	B	C	D	E*
790-208	30	29.9	8	12.4	25.8
790-216	34.6	28.3	16	21.8	30.2
790-220	45.6	28.3	24	30	41.2

*Height with WMB marker

Shield clamping saddle; 12.4 mm wide; Connectable shield diameter: 3 … 8 mm
Note: Cannot be used for connecting ground conductors and strain relief!

Item No.	Pack. Unit
790-208	50

Shield clamping saddle; 21.8 mm wide; Connectable shield diameter: 6 … 16 mm
Note: Cannot be used for connecting ground conductors and strain relief!

Item No.	Pack. Unit
790-216	25

Shield clamping saddle; 30 mm wide; Connectable shield diameter: 6 … 20 mm
Note: Cannot be used for connecting ground conductors and strain relief!

Item No.	Pack. Unit
790-220	25

Accessories; for Shield Clamping Saddles

Carrier with grounding foot; Busbar parallel to the rail; 15 mm long; Copper (10 x 3) mm; for shield clamping saddles (790-108)

790-110 25

Carrier with grounding foot; Busbar parallel to the rail; 25 mm long; Copper (10 x 3) mm; for shield clamping saddles (790-108; 790-116) and shield clamps (791-111; 791-117)

790-112 25

Carrier with grounding foot; Busbar 90° to the DIN-rail; 45 mm long; Copper (10 x 3) mm; for shield clamping saddles (790 Series)

790-113 25

Carrier with grounding foot; Busbar parallel to the DIN-rail; 45 mm long; Copper (10 x 3) mm; for shield clamping saddles (790 Series) and shield clamps (791 Series)

790-114 25

Carrier with two grounding feet; Busbar parallel to the DIN-rail; 125 mm long; Copper (10 x 3) mm

790-115 25

DIN-rail; specialty slotted; 1000 mm long; tin-plated

790-145

Spacer sleeve; steel; for DIN-rail; specialty slotted; for M5-size screw;

790-144 200 (100)

Busbar; tin-plated; 1000 mm long; copper (10 x 3) mm

210-133 1

Busbar; tin-plated; 30 mm long; copper (10 x 3) mm

790-133 20

Busbar; tin-plated; 50 mm long; copper (10 x 3) mm

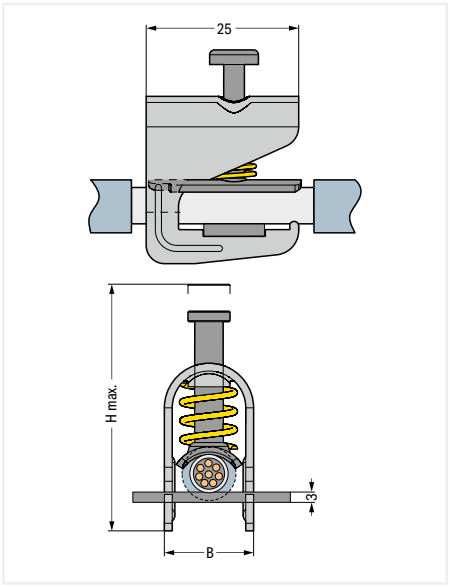
790-134 20

13

Shield Clamp and Shield Termination
791 and 709 Series

Insert the shield termination into the female plug using the operating tool.

Dimensions in mm



Fit the shield termination to the shield cable.

Shield clamp; Connectable shield diameter: 1.5 … 6.5 mm; Height (max.): 40 mm; 10 mm wide
Note: Cannot be used for connecting ground conductors!

	Item No.	Pack. Unit
	791-107	50

Shield clamp; Connectable shield diameter: 5 … 11 mm; Height (max.): 47 mm; 17 mm wide
Note: Cannot be used for connecting ground conductors!

	791-111	50

Shield clamp; Connectable shield diameter: 10 … 17 mm; Height (max.): 63 mm; 23 mm wide
Note: Cannot be used for connecting ground conductors!

	791-117	50

Shield clamp; Connectable shield diameter: 16 … 24 mm; Height (max.): 78 mm; 30 mm wide
Note: Cannot be used for connecting ground conductors!

	791-124	50

Shield termination; includes cable ties for 5 … 10 mm shield diameter; 60 mm long

	Item No.	Pack. Unit
	709-350	100 (25)

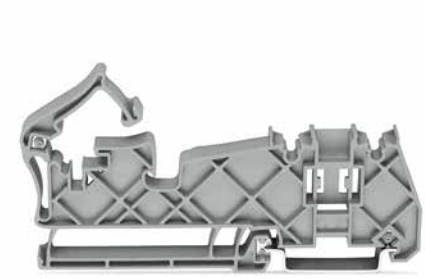
Shield termination; includes cable ties for 5 … 10 mm shield diameter; 150 mm long

	709-352	100 (25)

Secure both shield cable and shield termination to the strain relief plate using cable ties.

Shield termination connected to an X-COM® female plug

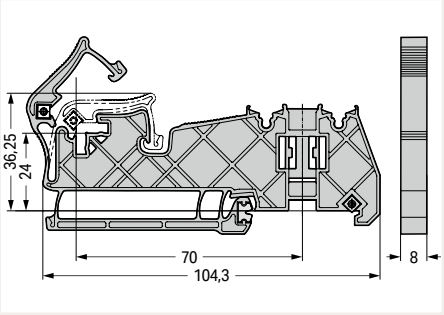
Busbar Carriers
790 Series



Dimensions in mm

Snapping the busbar carrier onto DIN-35 rail.

Vertical mounting position of the busbar

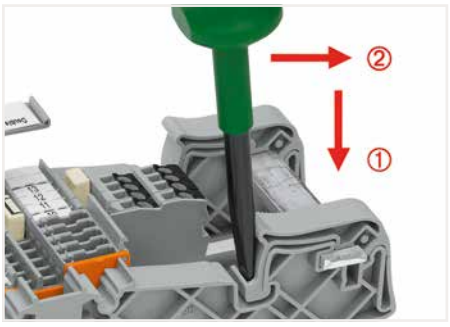


Busbar carrier; for (10 x 3) mm copper busbars; no contact to DIN-rail; insulated		
	Item No.	Pack. Unit
	790-400	20

Place the busbar in the carrier holder.

Horizontal mounting position of the busbar

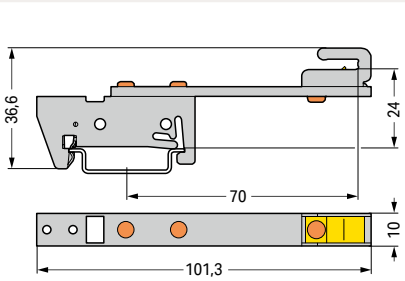
Snap the mounting bracket into position.



Release the mounting bracket by pushing the operating tool down ① and then forward ②.

Busbar Carriers
790 Series

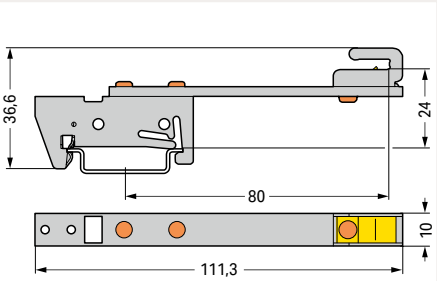
Dimensions in mm



Busbar carrier; for (10 x 3) mm copper busbars; single side; straight; 70 mm between center of DIN-rail and busbar carrier

	Item No.	Pack. Unit
	790-300	10

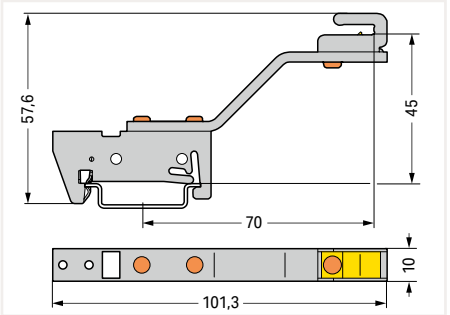
Dimensions in mm



Busbar carrier; for (10 x 3) mm copper busbars; single side; straight; 80 mm between center of DIN-rail and busbar carrier

	Item No.	Pack. Unit
	790-302	10

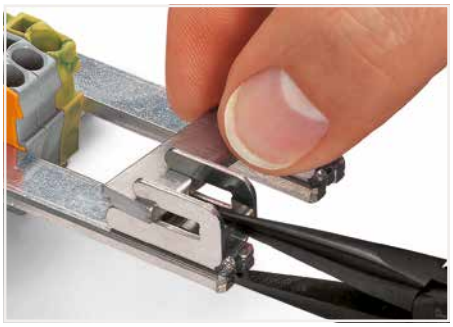
Dimensions in mm



Busbar carrier; for (10 x 3) mm copper busbars; single side; angled; 70 mm between center of DIN-rail and busbar carrier

	Item No.	Pack. Unit
	790-301	10

Remove the busbar carrier using an operating tool (type 3, 5.5 x 0.8 mm blade).

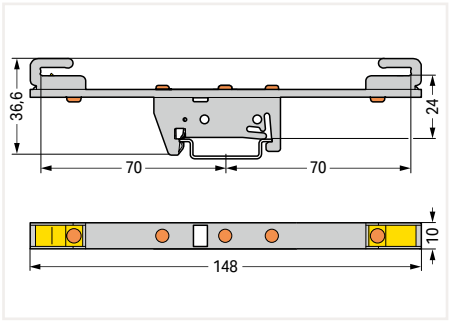


To remove the busbar, compress the spring using pliers.

Place the busbar in the busbar carrier.

Busbar Carriers
790 Series

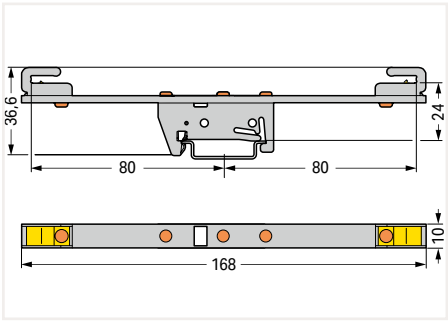
Dimensions in mm



Busbar carrier; for (10 x 3) mm copper busbars; both sides; straight; 70 mm between center of DIN-rail and busbar carrier

	Item No.	Pack. Unit
	790-310	10

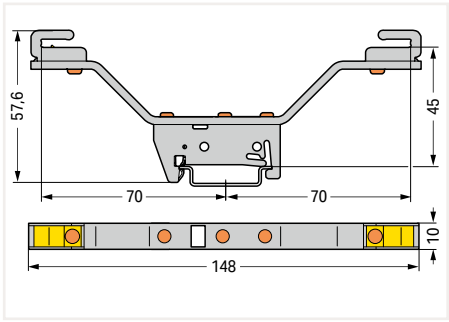
Dimensions in mm



Busbar carrier; for (10 x 3) mm copper busbars; both sides; straight; 80 mm between center of DIN-rail and busbar carrier

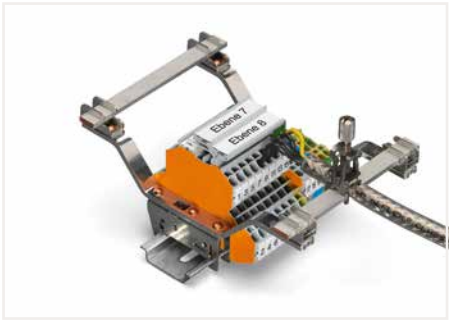
	Item No.	Pack. Unit
	790-312	10

Dimensions in mm



Busbar carrier; for (10 x 3) mm copper busbars; both sides; angled; 70 mm between center of DIN-rail and busbar carrier

	Item No.	Pack. Unit
	790-311	10

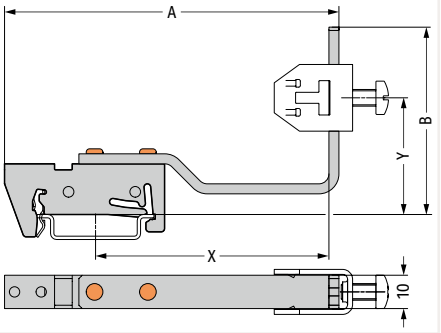


Application example

Busbar Carrier with a T-Connector (Flexible) and T-Connector
790 Series

Dimensions in mm

	A	B	X	Y
790-350/790-398	100	56	70	15 ... 52
790-352/790-398	100	99	70	15 ... 92
790-360/790-398	115	56	85	15 ... 52
790-362/790-398	115	99	85	15 ... 92



Busbar carrier with a T-connector; flexible; for (10 x 3) mm copper busbars; 70 mm between center of DIN-rail and busbar carrier; 56 mm high

Item No.	Pack. Unit
790-350/790-398	12

Busbar carrier with a T-connector; flexible; for (10 x 3) mm copper busbars; 70 mm between center of DIN-rail and busbar carrier; 99 mm high

790-352/790-398	12

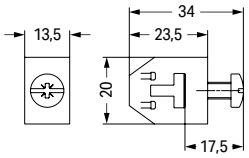
Busbar carrier with a T-connector; flexible; for (10 x 3) mm copper busbars; 85 mm between center of DIN-rail and busbar carrier; 56 mm high

790-360/790-398	12

Busbar carrier with a T-connector; flexible; for (10 x 3) mm copper busbars; 85 mm between center of DIN-rail and busbar carrier; 99 mm high

790-362/790-398	12

Dimensions in mm

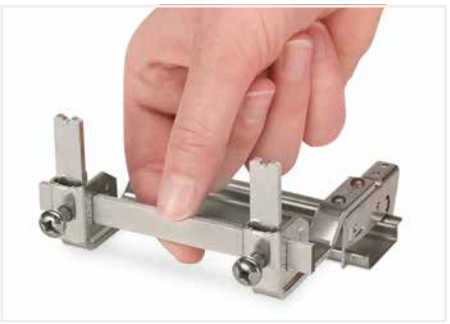


T-connector; connects two (10 x 3) mm copper busbars

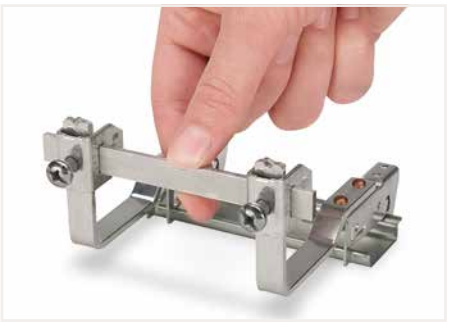
Item No.	Pack. Unit
790-398	

Horizontal mounting position of the busbar

Vertical mounting position of the busbar



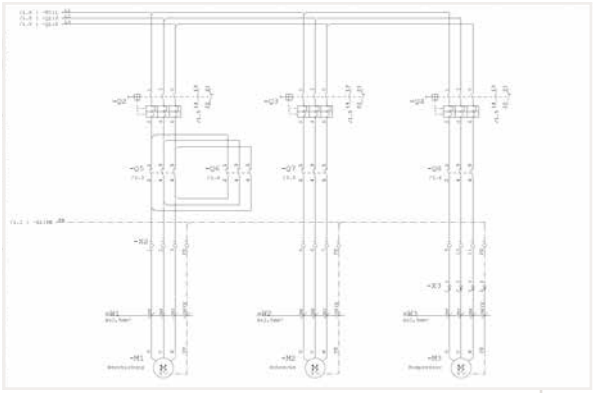
The height of the busbar can be adjusted.



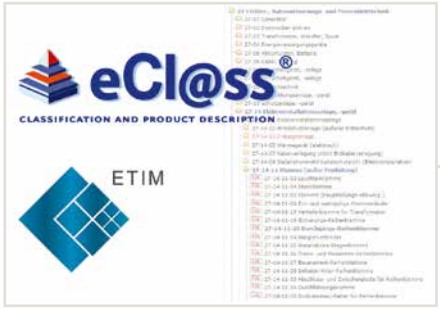
Secure the busbar by tightening the screws at the required position.

Smart Data
Supports Workflow from Control Cabinet Planning to Installation

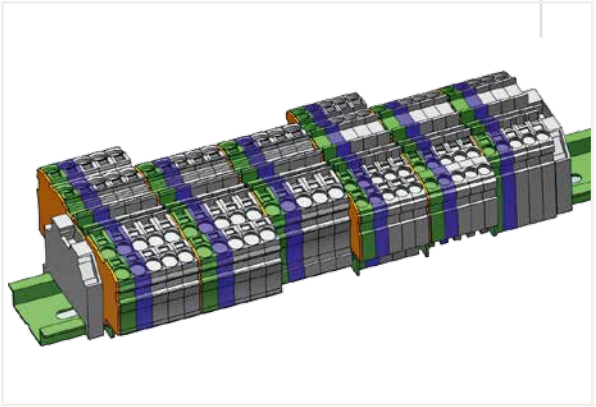
Electrical Planning
Directly import data from a CAE circuit diagram into the Smart Designer engineering software or output marking data on Smart Printer



Technical and Commercial Item Data
Classified by ETIM and eCl@ss – also in Advanced Format

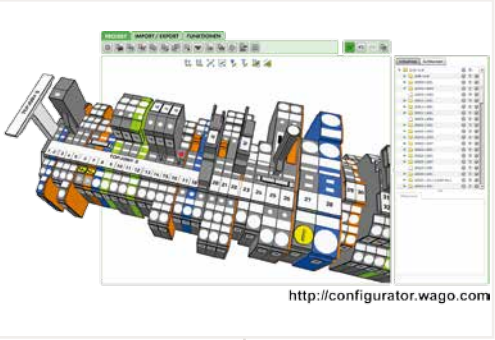


Mechanical Planning
CAD export into all standard CAD formats and in different granularities



13

Smart Designer
- Free online configuration and ordering software for all electrical interconnect and automation components
- No installation required
- Available worldwide – 24 hours a day
- Item data is always updated
- Auto-audit feature checks product compatibility via programed database
- Design in full 3-D



Smart Script
- XML-based software for all WAGO labeling materials
- Data import from CAE systems
- Font size check
- Material selection wizard

Configuration made easy – http://configurator.wago.com

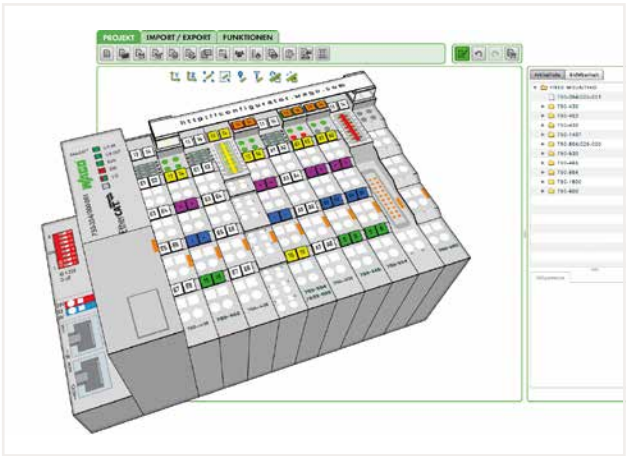
Smart Printer

The Fastest Marking System

Smart Script

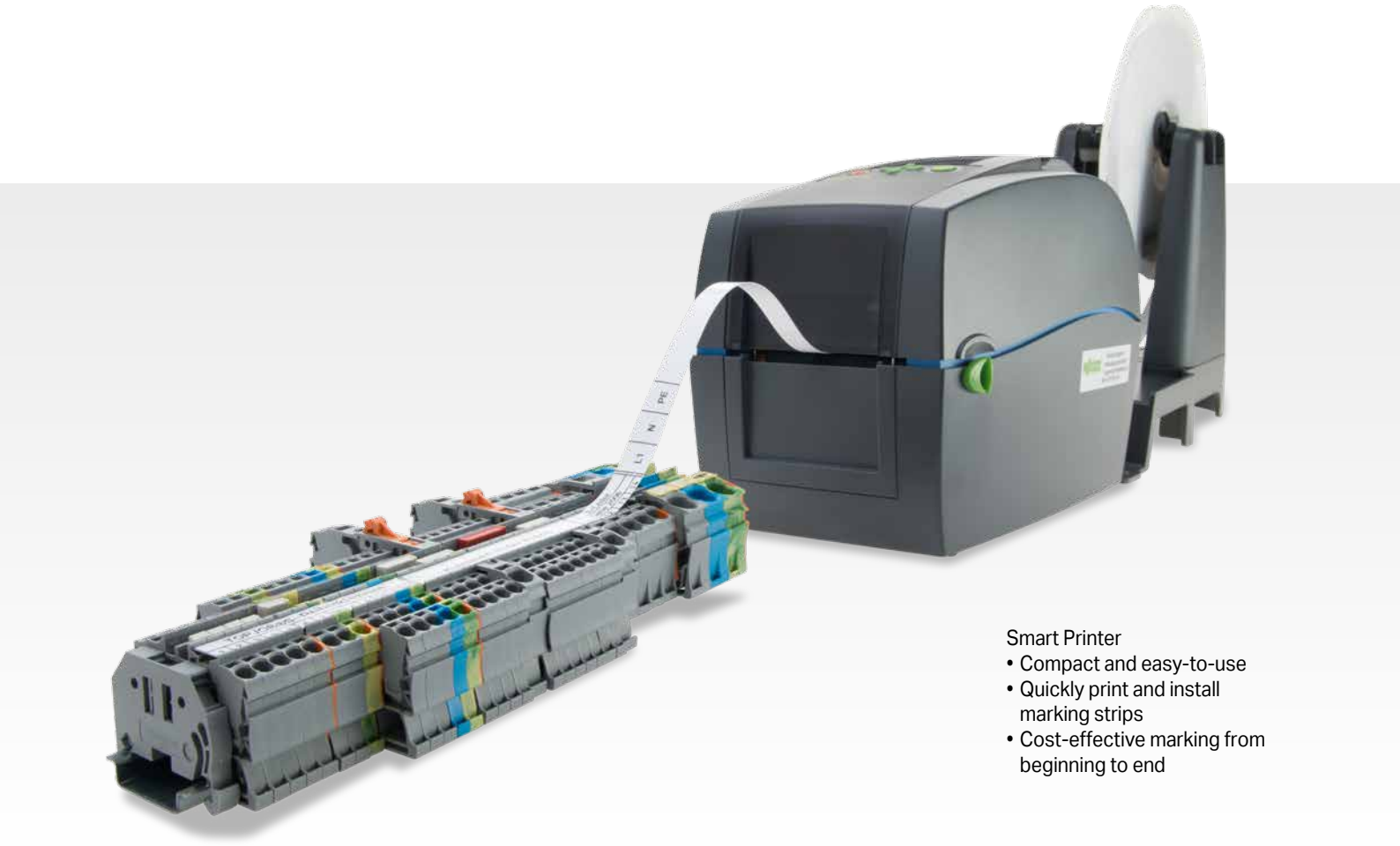
Smart Script
Import from CAE systems or create customized marking.

Smart Designer



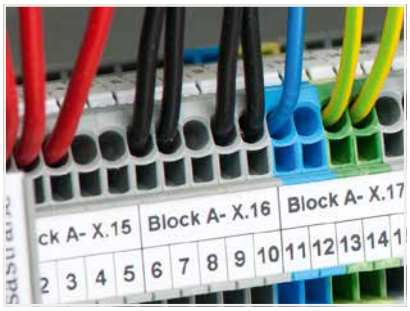
Smart Designer
After designing, print labeling materials directly from the project via Smart Printer

13



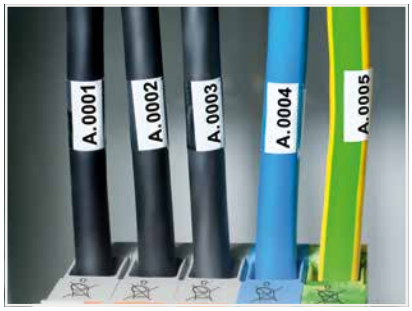
Smart Printer
- Compact and easy-to-use
- Quickly print and install marking strips
- Cost-effective marking from beginning to end

Terminal Block Marking



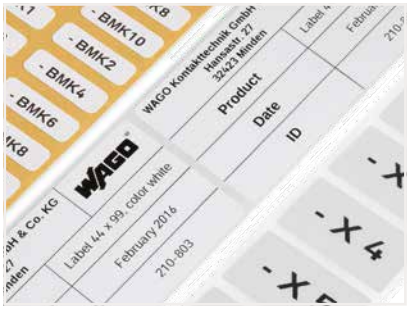
Multi-line marking strips for clear, detailed control cabinet labels
- WMB Inline markers on a reel are suitable for various terminal block sizes – just one marker size for all standard applications
- Same profile across all TOPJOB® S Rail-Mount Terminal Blocks ensures quick labeling

Cable and Conductor Marking



Different versions available:
- Marking sleeves, self-laminating labels, conductor markers for thread-on mounting or shrink tubes
- Large variety of marking surface sizes

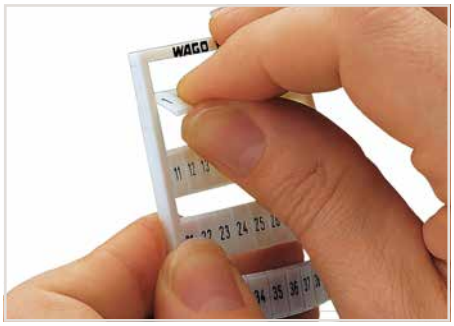
Device Marking



Broad selection of label types (e.g., printable fabric), push-button markers and type plates optimizes marking for devices and control cabinets
- Labels and markers are available in a variety of colors and sizes

13

Marking Systems
Description and Installation

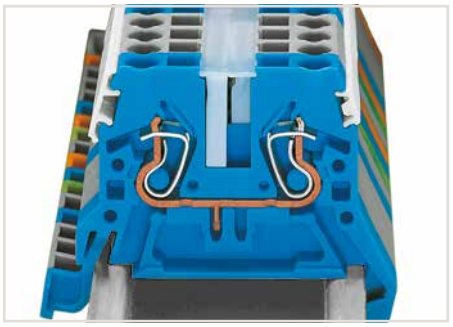


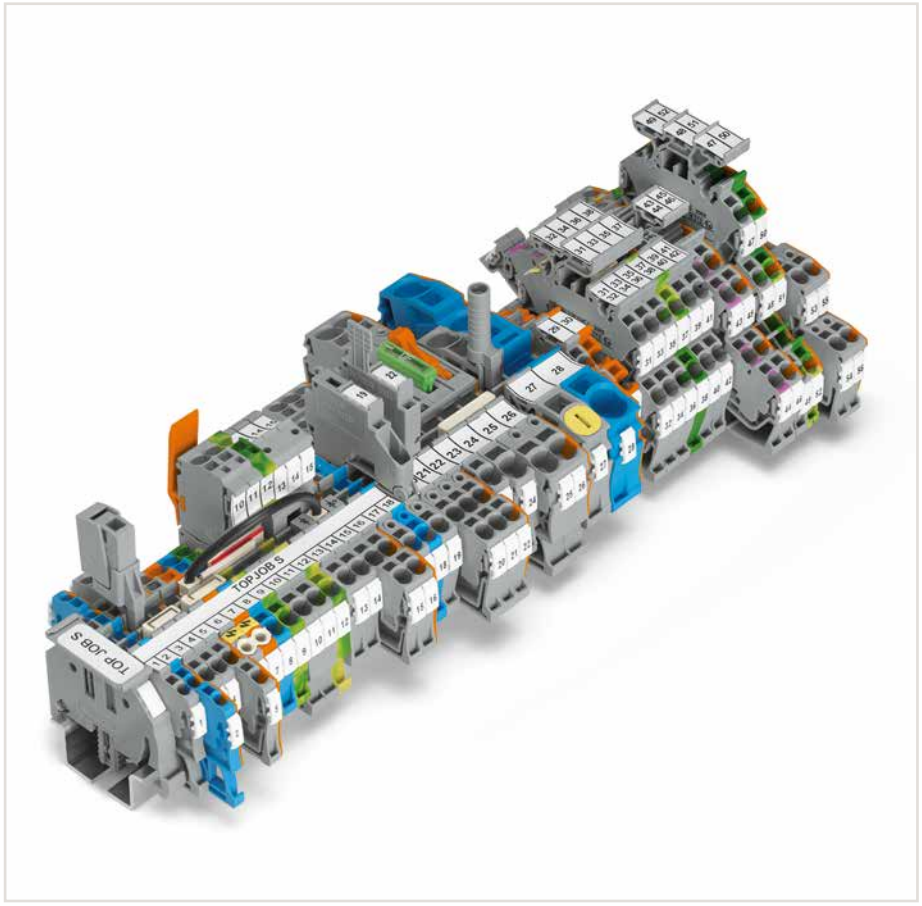
Separating a strip from the WMB or WMB marker card.

Stretching a WMB marker strip.

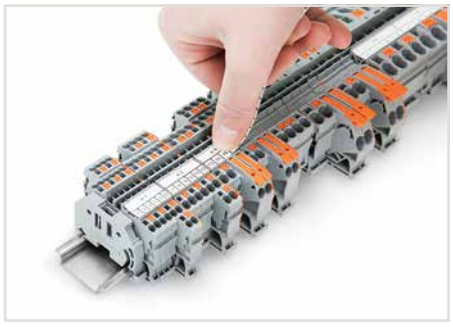
Separating an individual marker from the strip – for larger terminal blocks.

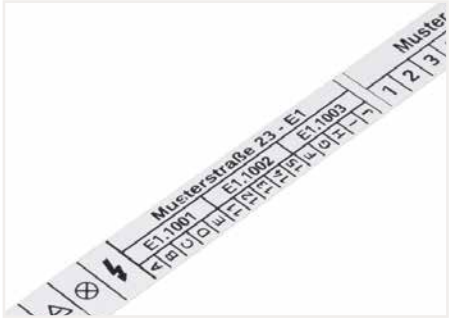
Marking via Mini-WSB Quick Marking System.


WMB markers in Mini-WSB marker slots
Translucent marking strip
Mini-WSB markers



Printing a marking strip (2009-110) via Smart Printer.


Snapping a marking strip into the marker slot.

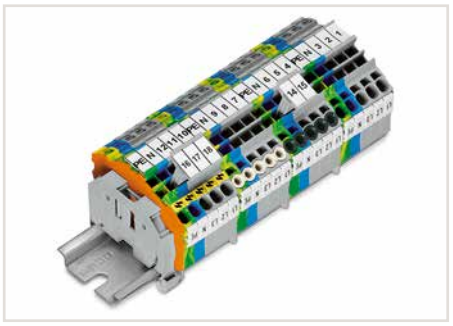


Marking strip – multi-line printing

Snapping a marking strip into the marker slot.

Snapping a WMB marker strip into the marker slot of the double marker carrier.

WMB “decade” marking

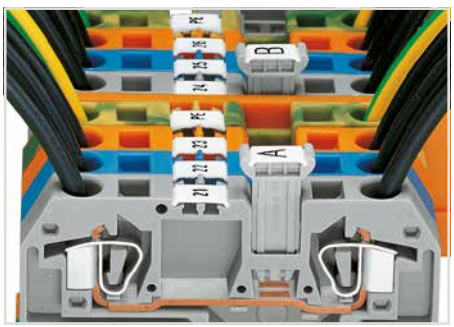


Group marker carriers for WAGO Rail-Mount Terminal Blocks
TOPJOB® S –
can be snapped into jumper slots.

Double- and triple-deck marker carriers can be retrofitted into the jumper contact slot of double- and triple-deck terminal blocks.

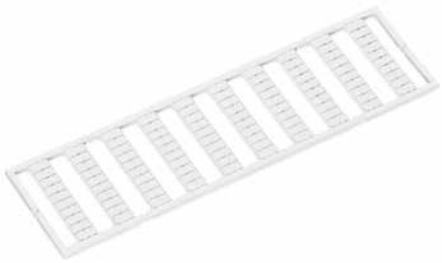
Height-adjustable group marker carrier (249-116) for marking strips (2009-110)

Height-adjustable group marker carrier



Additional group marking

Marking System
Terminal Block Width: 3.5 mm, 4 … 4.2 mm and from 5 mm



Use		
Marker width	Can be snapped onto the following terminal block series	
	for continuous marking	that will be separated
3.5 mm	2000, 2020	-
4 … 4.2 mm	279, 2001	-
5 … 5.2 mm	270, 280, 780, 869, 870, 880, 2002, 2003, 2022	Terminal blocks with spacing > 5 … 5.2 mm
5 … 17.5 mm	270, 280, 780, 869, 870, 880	281 … 285, 781 … 785, 2002, 2004, 2005, 2006, 2007, 2010, 2016, 2022

WMB marker card; plain; 10 strips with 10 markers/card					
Color	5 mm Item No.	5 … 5.2 mm Item No.	4 … 4.2 mm Item No.	3.5 mm Item No.	Pack. Unit
white	793-501	793-5501	793-4501	793-3501	5
yellow	793-501/000-002	793-5501/000-002	793-4501/000-002		5
red	793-501/000-005	793-5501/000-005	793-4501/000-005		5
blue	793-501/000-006	793-5501/000-006	793-4501/000-006		5
gray	793-501/000-007	793-5501/000-007	793-4501/000-007		5
orange	793-501/000-012	793-5501/000-012	793-4501/000-012		5
light green	793-501/000-017	793-5501/000-017	793-4501/000-017		5
green	793-501/000-023	793-5501/000-023	793-4501/000-023		5
violet	793-501/000-024	793-5501/000-024	793-4501/000-024		5

Use		
Marker width	Can be snapped onto the following terminal block series	
	for continuous marking	that will be separated
3.5 mm	2000, 2020	-
4 … 4.2 mm	279, 2001	-
5 … 5.2 mm	270, 280, 780, 869, 870, 880, 2002, 2003, 2022	Terminal blocks with spacing > 5 … 5.2 mm

WMB Inline; plain; 2,300 WMB markers (3.5 mm)/reel		
Color	3.5 mm Item No.	Pack. Unit
white	2009-113	1

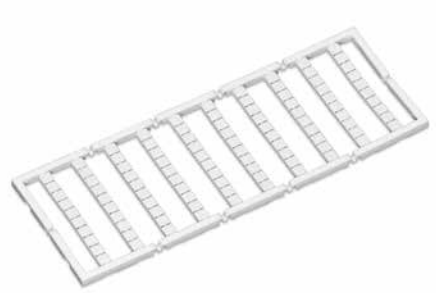
WMB Inline; plain; 2,000 WMB markers (4 mm)/reel; stretchable 4 … 4.2 mm		
Color	4 … 4.2 mm Item No.	Pack. Unit
white	2009-114	1

WMB Inline; plain; 1,500 WMB markers (5 mm)/reel; stretchable 5 … 5.2 mm		
Color	5 … 5.2 mm Item No.	Pack. Unit
white	2009-115	1

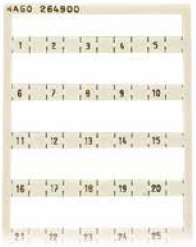
Use	
	Can be snapped onto the following terminal block series
	2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2010, 2016, 2020, 2022

Marking strip; plain; 11 mm wide; 50 m reel		
Color	3.5 mm Item No.	Pack. Unit
white	2009-110	1

Mini-WSB Quick Marking System
Terminal Block Width: 5 mm



Use		
Marker width	Can be snapped onto the following terminal block series	
	for continuous marking	that will be separated
5 mm	264, 270, 869, 880, 769, 870, 218, 233 … 236, 243, 250, 252 … 257, 735 … 742, 745, 746, 804, 805, 806, 816, 831, 750, 753, 2002, 2003, 2022	745, 746, 2004, 2006, 2007, 2010, 2016

Mini-WSB marker card; plain; 10 strips with 10 markers/card		
Color	Item No.	Pack. Unit
white	248-501	5
yellow	248-501/000-002	5
red	248-501/000-005	5
blue	248-501/000-006	5
gray	248-501/000-007	5
orange	248-501/000-012	5
light green	248-501/000-017	5
green	248-501/000-023	5
violet	248-501/000-024	5

Mini-WSB marker card; with marking; not stretchable; horizontal marking; snap-on type		
Marking	Item No.	Pack. Unit
1, , 2, , 3, , 4, , 5, ; to 46, , 47, , 48, , 49, , 50, ; (each 1x)	264-900	5
U, , V, , W, , N, , GND, ; (10x)	264-901	5
L1, , L2, , L3, , N, , GND, ; (10x)	264-902	5
1, , 1, , 1, , 1, , 1, ; (10x)	264-903	5
2, , 2, , 2, , 2, , 2, ; (10x)	264-904	5
3, , 3, , 3, , 3, , 3, ; (10x)	264-905	5

Use		
Marker width	Can be snapped onto the following terminal block series	
	for continuous marking	that will be separated
5 mm	264, 270, 869, 880, 769, 870, 218, 233 … 236, 243, 250, 252 … 257, 735 … 742, 745, 746, 804, 805, 806, 816, 831, 750, 753, 2002, 2003, 2022	745, 746, 2004, 2005, 2006, 2007, 2010, 2016

Mini-WSB Inline; plain; 1,700 markers (5 mm)/reel; stretchable 5 … 5.2 mm		
Color	3.5 mm Item No.	Pack. Unit
white	2009-145	1

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Marking Card; Self-Adhesive Marking Strips

- Strip length: 182 mm

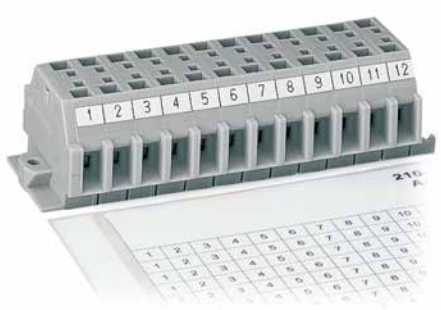
Marking strip; plain; as DIN A4 sheet		
	Item No.	Pack. Unit
◯ Strip height: 2.3 mm; 100 self-adhesive strips per card	210-331	100
◯ Strip height: 3 mm; 80 self-adhesive strips per card	210-332	100
◯ Strip height: 5 mm; 48 self-adhesive strips per card	210-334	100
◯ Strip height: 6 mm; 40 self-adhesive strips per card	210-333	100
◯ Strip height: 9 mm; 25 self-adhesive strips per card	210-335	100

- Horizontal marking
- Strip length: 182 mm
- Strip height: 6 mm

Marking strip; as DIN A4 sheet; for 2-conductor terminal strips (260 Series)		
Marking	Item No.	Pack. Unit
◯ 1 … 10 (120 x)	210-333/500-002	100
◯ 11 … 20 (120 x)	210-333/500-003	100
◯ 21 … 30 (120 x)	210-333/500-004	100
◯ 31 … 40 (120 x)	210-333/500-005	100
◯ 41 … 50 (120 x)	210-333/500-006	100
◯ 51 … 60 (120 x)	210-333/500-007	100
◯ 61 … 70 (120 x)	210-333/500-008	100
◯ 71 … 80 (120 x)	210-333/500-009	100
◯ 81 … 90 (120 x)	210-333/500-010	100
◯ 91 … 100 (120 x)	210-333/500-011	100
◯ 1 … 50 (20 x)	210-333/500-021	100
◯ L1 (1440 x)	210-333/500-074	100
◯ L2 (1440 x)	210-333/500-075	100
◯ L3 (1440 x)	210-333/500-076	100
◯ N (1440 x)	210-333/500-077	100
◯ PE (1440 x)	210-333/500-078	100
◯ PEN (1440 x)	210-333/500-079	100
◯ only grid spacing	210-333/500-001	100

Marking strip; for 4-conductor terminal strips (260 Series)		
◯ 1 … 10 (80 x)	210-333/800-002	100
◯ 11 … 20 (80 x)	210-333/800-003	100
◯ 21 … 30 (80 x)	210-333/800-004	100
◯ 31 … 40 (80 x)	210-333/800-005	100
◯ 41 … 50 (80 x)	210-333/800-006	100
◯ 51 … 60 (80 x)	210-333/800-007	100
◯ 61 … 70 (80 x)	210-333/800-008	100
◯ 71 … 80 (80 x)	210-333/800-009	100
◯ 81 … 90 (80 x)	210-333/800-010	100
◯ 91 … 100 (80 x)	210-333/800-011	100
◯ 1 … 40 (20 x)	210-333/800-209	100
◯ L1 (880 x)	210-333/800-074	100
◯ L2 (880 x)	210-333/800-075	100
◯ L3 (880 x)	210-333/800-076	100
◯ N (880 x)	210-333/800-077	100
◯ PE (880 x)	210-333/800-078	100
◯ PEN (880 x)	210-333/800-079	100
◯ only grid spacing	210-333/800-001	100

Marking Card; Self-Adhesive Marking Strips



- Horizontal marking
- Strip length: 182 mm
- Strip height: 6 mm

Marking strip; as DIN A4 sheet; for 2-conductor terminal strips (261 Series)		
Marking	Item No.	Pack. Unit
◯ 1 … 12 (80 x)	210-333/600-103	100
◯ 13 … 24 (80 x)	210-333/600-104	100
◯ 25 … 36 (80 x)	210-333/600-105	100
◯ 37 … 48 (80 x)	210-333/600-106	100
◯ 41 … 50 (80 x)	210-333/600-006	100
◯ 51 … 60 (80 x)	210-333/600-007	100
◯ 61 … 70 (80 x)	210-333/600-008	100
◯ 71 … 80 (80 x)	210-333/600-009	100
◯ 81 … 90 (80 x)	210-333/600-010	100
◯ 91 … 100 (80 x)	210-333/600-011	100
◯ 1 … 50 (20 x)	210-333/600-021	100
◯ L1 (1200 x)	210-333/600-074	100
◯ L2 (1200 x)	210-333/600-075	100
◯ L3 (1200 x)	210-333/600-076	100
◯ N (1200 x)	210-333/600-077	100
◯ PE (1200 x)	210-333/600-078	100
◯ PEN (1200 x)	210-333/600-079	100
◯ only grid spacing	210-333/600-001	100

Marking strip; for 4-conductor terminal strips (261 Series)		
◯ 1 … 16 (40 x)	210-333/1000-202	100
◯ 17 … 32 (40 x)	210-333/1000-204	100
◯ 33 … 48 (40 x)	210-333/1000-206	100
◯ 49 … 64 (40 x)	210-333/1000-110	100
◯ 65 … 80 (40 x)	210-333/1000-111	100
◯ 81 … 96 (40 x)	210-333/1000-112	100
◯ 97 … 112 (40 x)	210-333/1000-113	100
◯ 1 … 36 (20 x)	210-333/1000-208	100
◯ L1 (720 x)	210-333/1000-074	100
◯ L2 (720 x)	210-333/1000-075	100
◯ L3 (720 x)	210-333/1000-076	100
◯ N (720 x)	210-333/1000-077	100
◯ PE (720 x)	210-333/1000-078	100
◯ PEN (720 x)	210-333/1000-079	100
◯ only grid spacing	210-333/1000-001	100

Marking Card; Self-Adhesive Marking Strips

- Horizontal marking
- Strip length: 182 mm
- Strip height: 6 mm

Marking strip; as DIN A4 sheet; for 2-conductor terminal strips (262 Series)		
Marking	Item No.	Pack. Unit
◯ 1 … 20 (40 x)	210-333/700-020	100
◯ 21 … 40 (40 x)	210-333/700-108	100
◯ 41 … 60 (40 x)	210-333/700-109	100
◯ 1 … 50 (20 x)	210-333/700-021	100
◯ L1 (1040 x)	210-333/700-074	100
◯ L2 (1040 x)	210-333/700-075	100
◯ L3 (1040 x)	210-333/700-076	100
◯ N (1040 x)	210-333/700-077	100
◯ PE (1040 x)	210-333/700-078	100
◯ PEN (1040 x)	210-333/700-079	100
◯ only grid spacing	210-333/700-001	100

Marking strip; for 4-conductor terminal strips (262 Series)		
◯ 1 … 12 (40 x)	210-333/1200-103	100
◯ 13 … 24 (40 x)	210-333/1200-104	100
◯ 25 … 36 (40 x)	210-333/1200-105	100
◯ 37 … 48 (40 x)	210-333/1200-106	100
◯ 49 … 60 (40 x)	210-333/1200-107	100
◯ 1 … 24 (20 x)	210-333/1200-203	100
◯ L1 (600 x)	210-333/1200-074	100
◯ L2 (600 x)	210-333/1200-075	100
◯ L3 (600 x)	210-333/1200-076	100
◯ N (600 x)	210-333/1200-077	100
◯ GND (600 x)	210-333/1200-078	100
◯ PEN (600 x)	210-333/1200-079	100
◯ only grid spacing	210-333/1200-001	100

Group Marker Carrier and Marker Carrier
TOPJOB® S

Group marker carrier; snap-on type for jumper slot; gray		
	Item No.	Pack. Unit
◯ 5 mm wide	**2009-191**	50 (25)
◯ 10 mm wide	**2009-192**	50 (25)
◯ 15 mm wide	**2009-193**	50 (25)

Group marker carrier; snap-on type for jumper slot; gray		
◯ 10 mm wide	**2009-196**	50 (25)

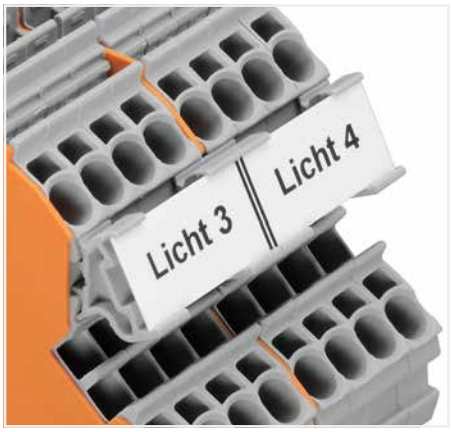
Marker carrier; for lateral marker slots; 5 mm wide		
Color	Item No.	Pack. Unit
◯ gray	**2009-198**	200 (25)

2009-193 Group Marker Carrier (equipped with marking strips) for all 2001 to 2016 Series TOPJOB® S Rail-Mount Terminal Blocks.
Do not use on an end plate!

Marker carrier; for jumper slots of double-deck, double-disconnect terminal blocks (2002 Series); 5 mm wide		
Color	Item No.	Pack. Unit
◯ gray	**2002-160**	50 (25)

Marker carrier; for jumper slots (2002 Series); 5 mm wide		
Color	Item No.	Pack. Unit
◯ gray	**2002-161**	100 (25)

Using marker carriers for marking strips (2002-161) in jumper slots.



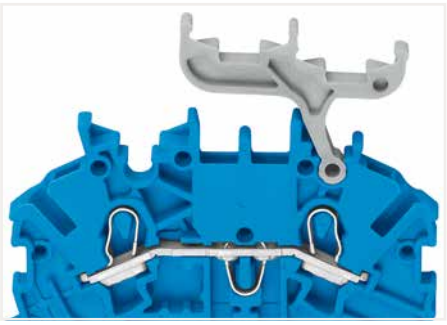
Using marker carriers for marking strips (2009-198) in lateral marker slots.

Multilevel Marker Carrier
TOPJOB® S

Double-deck marker carrier; pivoting		
Color	Item No.	Pack. Unit
gray	**2000-121**	50 (25)

Double-deck marker carrier; pivoting		
Color	Item No.	Pack. Unit
gray	**2002-121**	50 (25)

Triple-deck marker carrier; pivoting		
Color	Item No.	Pack. Unit
gray	**2002-131**	50 (25)



Double-deck terminal blocks:
A double-deck marker carrier (2000-121) can be retrofitted to double-deck terminal blocks without a marker carrier.

Group Marker Carriers (Adjustable in Height) and Laterally Movable Marking System

Group marker carrier; fits into jumper slot of rail-mount terminal blocks; for terminal block width 4 … 6 mm; for up to 3 WMB markers or 8 branch markers; 15 mm wide		
Color	Item No.	Pack. Unit
gray	209-140	50 (25)

Group marker carrier; fits into jumper slot of rail-mount terminal blocks; for up to 2 WMB markers or 5 branch markers; 10 mm wide		
gray	209-141	50 (25)

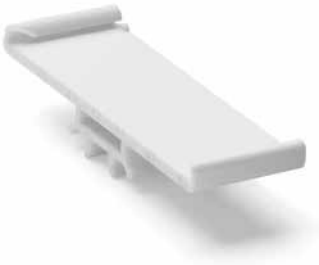
Group marker carrier; fits into jumper slot of rail-mount terminal blocks; for up to 1 WMB markers or 2 branch markers; 5 mm wide		
gray	209-142	50 (25)

Group marker carrier; snaps onto screwless 249-116 and 249-117 End Stops (center or side mounting); 10 mm wide		
Color	Item No.	Pack. Unit
white	209-112	50 (25)

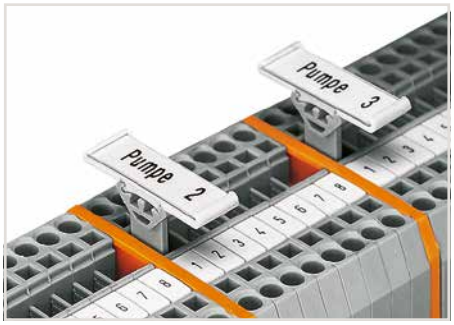
Marker; from white cardboard; for self-marking; 100 markers/sheet		
white	209-113	1

Self-adhesive marker; for self-marking; 7 x 25 markers/sheet		
white	210-345	1

Protective marker cover		
transparent	209-114	50



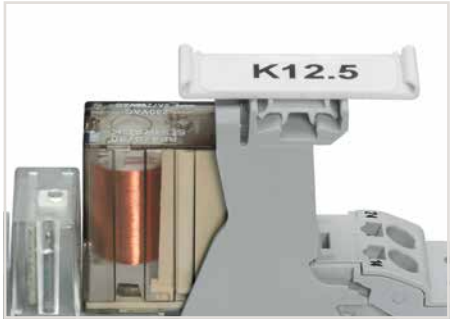
Group marker carrier; for WMB and Mini-WSB marker slots; 10 mm wide		
Color	Item No.	Pack. Unit
white	209-145	100 (25)



Group marker carriers (209-141 and 209-112)

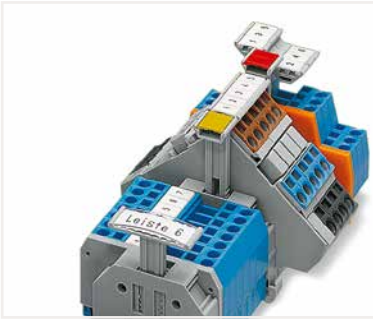
Group marking on N-busbar carrier used as an end stop

Group marker carrier (209-145)



Group marker carrier (209-145)

Group Marker Carriers (Adjustable in Height) and Laterally Movable Marking System



Receptacles for:
1 x marker
2 x WMB Multi marker or
1 x WFB continuous marking strip

Height-adjustable group marker carrier; snaps onto end stops (249-116 and 249-117), adjustable in height from 43.5 to 59.5 mm; for 1 marker or self-adhesive marker and transparent protection cover; 10 mm wide		
Color	Item No.	Pack. Unit
gray	**249-119**	50 (25)

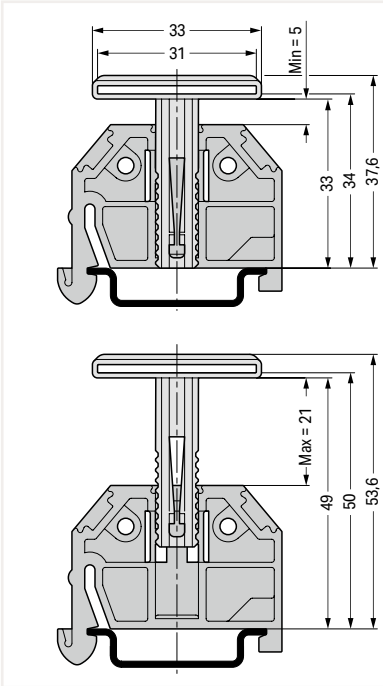
Carrier-through element; height-adjustable; snaps onto end stops (249-116 and 249-117)		
Color	Item No.	Pack. Unit
gray	**709-118**	50 (25)

Height-adjustable group marker carrier; snaps onto end stops (249-116 and 249-117), adjustable in height from 43.5 to 59.5 mm; for 2 WMB markers or 1 continuous strip; 10 mm wide		
gray	**249-118**	100 (25)

Carrier-end element; height-adjustable; snaps onto end stops (249-116 and 249-117)		
gray	**709-119**	50 (25)

Height-adjustable group marker carrier; snaps onto end stops (249-116 and 249-117), adjustable in height from 42.2 to 58.2 mm; with marking surface; 6 mm wide		
white	**249-120**	50 (25)

Height-adjustable group marker carrier; snaps onto end stops (249-116 and 249-117), adjustable in height from 45 to 61 mm; for 9 WMB markers or 1 TOPJOB® S marking strip; 12.2 mm wide		
gray	**2009-163**	50 (25)



Dimensions in mm

Accessories; item-specific		
Marking strip receptacle; folded; 1 m long; 16 mm wide; 1.7 mm thick		
transparent	**709-120**	1
Marking card; with 14 marking strips; DIN A4		
	709-193	1

Height adjustable group marker carrier (249-116) for marking strips (2009-110)

This laterally movable marking system can be used as an additional group marker carrier or continuous marking strip carrier for terminal strips or single-deck rail-mount terminal blocks, e.g., for:

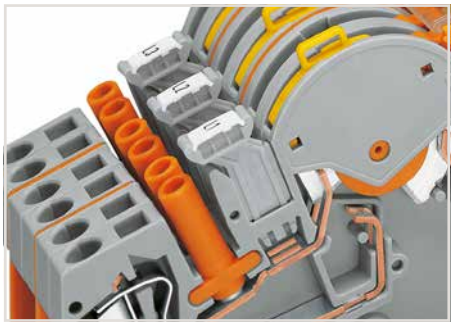
- DIN-35 rail-mount terminal strips (264 Series)
- Single-deck rail-mount terminal blocks (279 to 284 Series) with a maximum height of 49 mm (1.93 inch) from upper-edge of DIN-rail (please observe conductor radius)

Group Marker Carrier and Double Marker Carrier

Group marker carrier; angled; e.g., for transformer terminal blocks (282 Series)		
Color	Item No.	Pack. Unit
gray	**209-144**	50 (25)

Double marker carrier; for center I/O module marking; for WSB and WMB marking systems; 4 mm wide		
Color	Item No.	Pack. Unit
gray	**209-128**	200 (100)

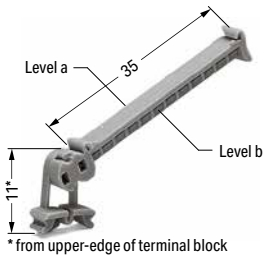
Group marker carrier; straight; e.g., for 2- and 3-conductor terminal blocks (282 Series)		
gray	**209-143**	50 (25)



This group marker carrier (209-144) makes it possible to mark subgroups in confined places. They can be snapped into unused jumper contact slots of the terminal block housing. Labeling is performed via WMB Multi markers.

Snapping a WMB marker strip into the marker slot of the double marker carrier.

Group Marker Carrier (Pivoting) and WFB Continuous Marking Strip



Pivoting group marker carrier		
Color	Item No.	Pack. Unit
gray	**249-105**	50 (25)

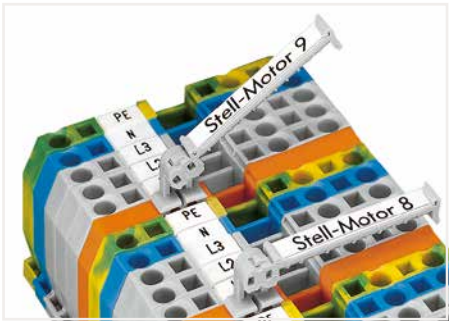
WFB continuous marking strip; 1000 mm long; for self-marking; e.g., with felt-tip pen		
Color	Item No.	Pack. Unit
transparent	**210-612**	10

Marker; 4 x 30 markers/sheet		
white	**209-183**	1

Carrier for WFB continuous marking strip; snaps into marker slot		
gray	**209-185**	200 (25)

Protective marker cover		
transparent	**209-184**	50

Accessories; item-specific		
Felt-tip pen; for permanent marking		
	210-110	200 (1)



This pivoting group marker carrier has been developed for group marking of rail-mount terminal blocks and incorporates many customer requirements.

- Can be used in all multiprofile marker slots for rail-mount terminal bocks from 5 mm (0.197 inch) on or in spacer housings as shown above.
- Pivotable in seven different stable positions, providing the best visual angle in case of difficult mounting conditions

WFB continuous marking strip
Customized ink pen marking

Carrier for WFB Continuous marking strips, to be fixed every 10th terminal block.

13

Thermal Transfer Printer
Smart Printer

Open the printer.

Printer – open

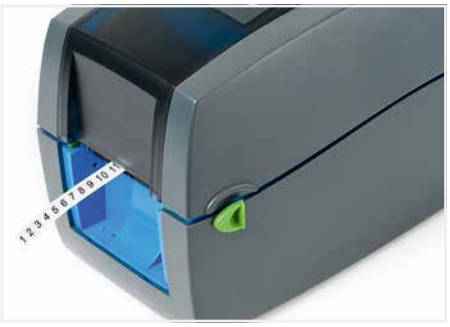
Accessories for unwinding material

Insert the ink ribbon.

Prepare the marking material.

Insert and secure the appropriate roller into the printer.

Printer has several interfaces:
USB, ETHERNET, serial COM port


Fast, cost-effective and easy to use –
printing WMB Inline markers via Smart Printer

Thermal Transfer Printer and Cutter
Smart Printer

Smart Printer; WMB Inline markers; Marking strips; Conductor markers and labels; Resolution: 300 dpi

	Item No.	Pack. Unit
	258-5000	1

Smart Printer
includes:
- Power supply and cable
- USB cable
- 1 x marking strip reel (2009-110)
- 1 x WMB Inline marker reel (2009-115)
- 2 x roller (258-5006 + 258-5007)
- 1 x reel holder
- 1 x ink ribbon (258-5005)

Technical Data	
Printing method	Thermal transfer
Print head	Glass layer, spring-mounted
Print speed (max.)	127 mm/s (WAGO recommends 50.8 mm/s)
Print width (max.)	47 mm
Print length (max.)	762 mm
Print resolution	300 dpi (12 pixels/mm)
See-through/reflective sensor	Yes, centrally mounted
Operating display	Color TFT LCD with navigation button
Memory	8 MB Flash, 16 MB SDRAM
Interfaces	USB, RS-232, ETHERNET 10/100 Mbps, USB Host
Operating voltage	100 … 240 VAC, 50 … 60 Hz (automatic adjustment)
Dimensions (mm) W x H x D	135 x 175 x 245
Weight	2000 g (without printing material)
Operating temperature	5 … 40 °C (41 … 104 °F)
Storage temperature	−20 … 50 °C (−4 … 122 °F)
Safety approvals	CE (EMC)
Ink ribbon (see also Full Line Catalog, Volume 6, Marking)	External roll diameter: 40 mm; Internal core diameter: 12.7 mm (0.5 inch); Max. length: 110 m; Max. width: 58 mm

Cutter for Smart Printer; for marking strips only; not suitable for WMB Inline markers

	Item No.	Pack. Unit
	258-5030	1

Hardware requirements:
- Printer model: Smart Printer
- From manufacturing month/year: 0814 – August 2014
- Firmware version: 1.UW7i
- Printer driver: Version 7.4.2

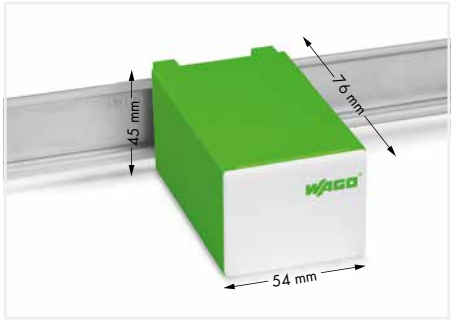
Software requirements:
- Smart Script: Version 3.88.9.0 or higher
- WAGO printer settings: Version 2.4.0.0 or higher

Approved print material to be cut:
- Marking strips: 2009-110, 709-177, 709-178, 757-901/000-005
- Self-adhesive marking strips: 210-702, 210-870 … -877
- Cable tie markers: 211-835 … -836, 211-836/000-002
- Self-laminating labels: 211-855 … -857
- Conductor markers for thread-on mounting: 211-861 … -863
- Type labels: 210-801 … -804, 210-812
- Continuous labels: 210-831 … -834
- Label for circuit identification: 210-813

Dimensions of printing materials:
- Width (max.): 46 mm
- Thickness (max.): 250 µm

Technical Data	
Width	60 mm
Height	107 mm
Depth	131 mm
Weight	1050 g

Control Cabinet Outlet and Switch Cabinet Drawer
709 Series



Technical Data		
Ratings per	DIN VDE 0620-1	
Voltage type	AC	
Rated voltage	250 V	
Rated surge voltage	2 kV	
Rated current	16 A	

Connection Data	
Connection technology	Push-in CAGE CLAMP®
Actuation type	Type 2 (3.5 x 0.5) mm blade
Actuation direction	Operation parallel to conductor entry
Connectable conductor materials	Copper
Solid conductor	0.2 … 2.5 mm / 24 … 14 AWG
Stranded conductor	0.2 … 2.5 mm / 24 … 14 AWG
Fine-stranded conductor	0.2 … 2.5 mm / 24 … 14 AWG
Strip length	9 … 10 mm / 0.35 … 0.39 inch
Number of poles	3

Mechanical Data	
Mounting type	DIN-35 rail
Protection type	IP20
Potential marking	L GND N

Material Data	
Material group	I
Insulation material	Polyamide 66 (PA 66)
Flammability class per UL94	V0
Clamping spring material	Chrome nickel spring steel (CrNi)
Contact material	Copper alloy
Contact plating	Sn

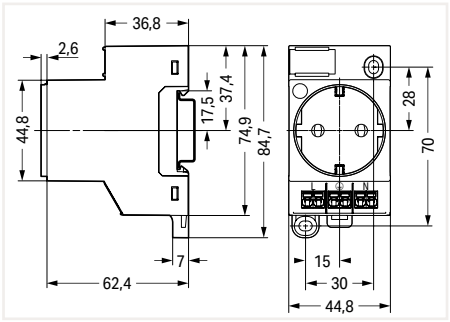
Environmental Requirements	
Continuous operating temperature from	–35 °C
Continuous operating temperature up to	85 °C

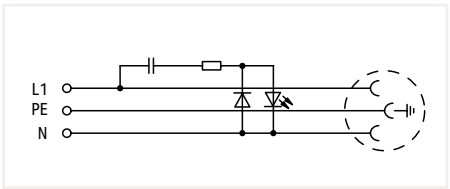
❶ The outlets are available in three colors to identify different circuits:
- 709-581 gray (standard)
- 709-582 yellow (permanently energized)
- 709-583 red (UPS)

Approvals and corresponding ratings, visit www.wago.com

Control Cabinet Outlet and Switch Cabinet Drawer
709 Series

Dimensions in mm

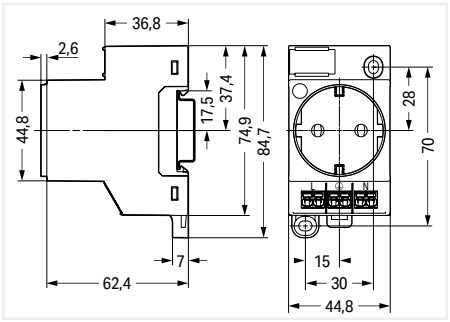


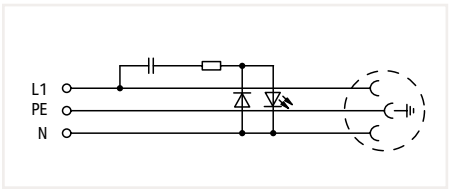


Control cabinet outlet; for DIN-35 rail and screw mounting; for plug Type F, CEE 7/4 (SCHUKO®); used in Germany, the Netherlands, Austria; with status LED; with Push-in CAGE CLAMP® double connection

Color	Item No.	Pack. Unit
light gray	709-581	1

Dimensions in mm

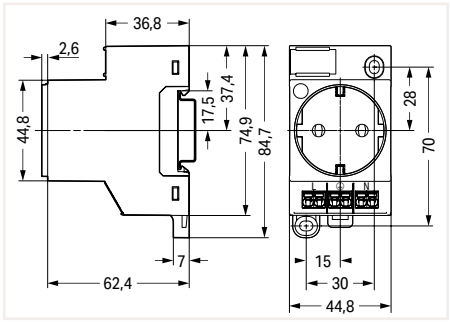


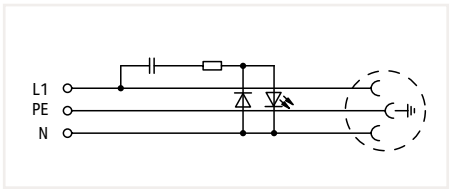


Control cabinet outlet; for DIN-35 rail and screw mounting; for plug Type F, CEE 7/4 (SCHUKO®); used in Germany, the Netherlands, Austria; with status LED; with Push-in CAGE CLAMP® double connection

Color	Item No.	Pack. Unit
yellow	709-582	1

Dimensions in mm

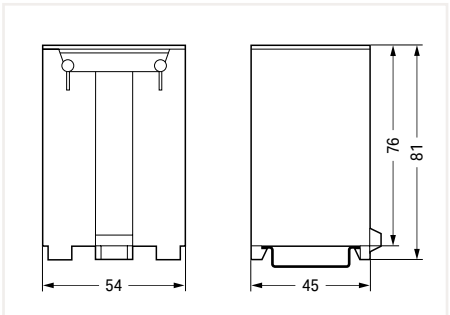




Control cabinet outlet; for DIN-35 rail and screw mounting; for plug Type F, CEE 7/4 (SCHUKO®); used in Germany, the Netherlands, Austria; with status LED; with Push-in CAGE CLAMP® double connection

Color	Item No.	Pack. Unit
red	709-583	1

Dimensions in mm

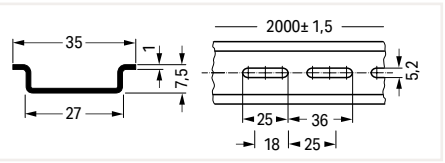


Switchgear cabinet drawer; DIN-35 rail-mount drawer

	Item No.	Pack. Unit
	709-591	1

DIN-Rail; Rail End Cap; Angled Support Bracket and Collective Jumper Carrier

Dimensions in mm



Steel DIN-rail; I_N 76 A (based on 1 m length); 35 x 7.5 mm; 1 mm thick; 2 m long; per EN 60715

	Item No.	Pack. Unit
unslotted	**210-113**	10 (1)

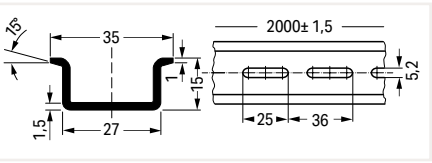
Hole width: 25 mm; Hole spacing: 36 mm

slotted	**210-112**	10 (1)

Hole width: 18 mm; Hole spacing: 25 mm

slotted	**210-115**	1

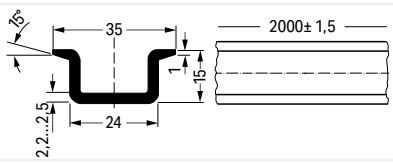
Dimensions in mm



Steel DIN-rail; I_N 125 A (based on 1 m length); 35 x 15 mm; 1.5 mm thick; 2 m long; similar to EN 60715

	Item No.	Pack. Unit
unslotted	**210-114**	10 (1)
slotted	**210-197**	10 (1)

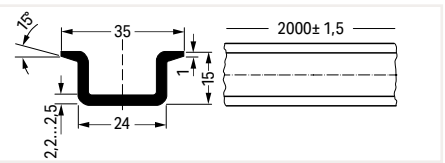
Dimensions in mm



Steel DIN-rail; I_N 125 A (based on 1 m length); 35 x 15 mm; 2.3 mm thick; 2 m long; per EN 60715

	Item No.	Pack. Unit
unslotted	**210-118**	10 (1)

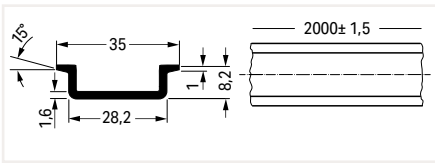
Dimensions in mm



Copper DIN-rail; I_N 309 A (based on 1 m length); 35 x 15 mm; 2.3 mm thick; 2 m long; per EN 60715

	Item No.	Pack. Unit
unslotted	**210-198**	10 (1)

Dimensions in mm



Aluminum DIN-rail; I_N 76 A (based on 1 m length); 35 x 8.2 mm; 1.6 mm thick; 2 m long; similar to EN 60715

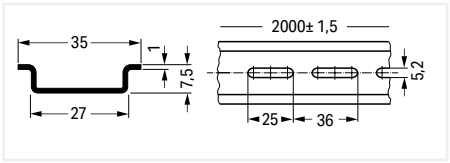
	Item No.	Pack. Unit
unslotted	**210-196**	20 (1)

Rail end cap; for DIN-35 rail (7.5 mm high)

Color	Item No.	Pack. Unit
◯ gray	**209-109**	50 (25)

13

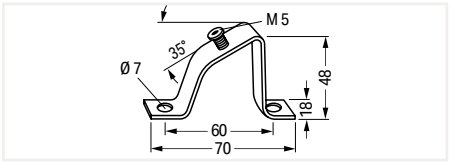
Dimensions in mm



Steel DIN-rail; I_N 76 A (based on 1 m length); 35 x 7.5 mm; 1 mm thick; 2 m long; per EN 60715

	Item No.	Pack. Unit
unslotted	**210-505**	1
slotted	**210-504**	1

Dimensions in mm

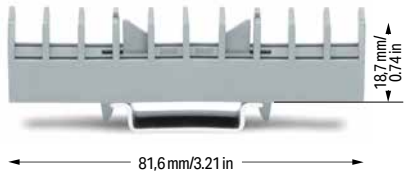


Angled support bracket; without screw

	Item No.	Pack. Unit
	210-148	10

Screw M5 x 8

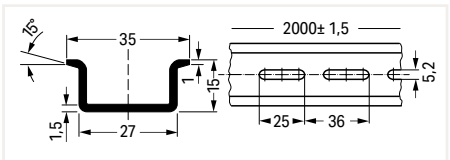
	Item No.	Pack. Unit
	210-149	100 (20)



Collective jumper carrier; for DIN-35 rail; compatible with jumpers for transverse switching terminal block (282-811) and longitudinal switching disconnect terminal block (282-821)
The collective carrier can be snapped onto DIN-35 rails. It stores jumpers during maintenance.

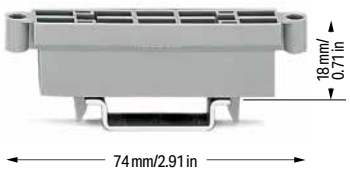
Color	Item No.	Pack. Unit
gray	**282-369**	25

Dimensions in mm



Steel DIN-rail; I_N 125 A (based on 1 m length); 35 x 15 mm; 1.5 mm thick; 2 m long; per EN 60715

	Item No.	Pack. Unit
unslotted	**210-506**	1
slotted	**210-508**	1

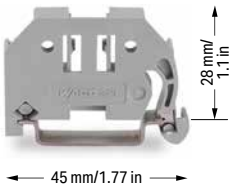


Collective carrier for adjacent jumpers; for DIN-35 rail; for adjacent jumpers (279 to 284 Series); for banana plugs (215 Series)
The collective carrier can be snapped onto DIN-35 rails. It stores adjacent jumpers and banana plugs during maintenance.

Color	Item No.	Pack. Unit
gray	**209-100**	50 (25)

13

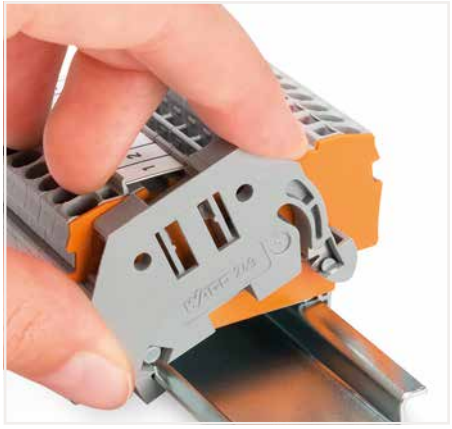
Screwless End Stop; for DIN-35 Rail
249 Series

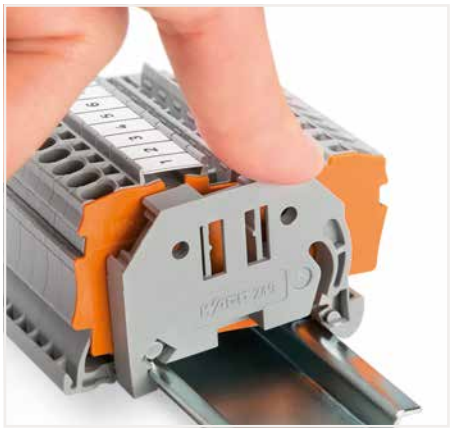


Screwless end stop; for DIN-35 rail; 6 mm wide		
Color	Item No.	Pack. Unit
◯ gray	**249-116**	100 (25)

Screwless end stop; for DIN-35 rail; 10 mm wide		
◯ gray	**249-117**	50 (25)

Screwless end stop; for DIN-35 rail; 14 mm wide		
Color	Item No.	Pack. Unit
◯ gray	**249-197**	10


Simply snap on – that's it!


Simply snap on – that's it!

Simply snap on – that's it!

Removing an end stop from the DIN-rail.

Snap on – that's it! Assembling the WAGO Screwless End Stop is as simple and quick as snapping a rail-mount terminal block onto the rail.

Tool free!

A tool-free design allows rail-mount terminal blocks to be safely and economically secured against any movement on all DIN-35 rails per DIN EN 60715 (35 x 7.5 mm; 35 x 15 mm).

Screwless!

The "secret" to a perfect fit lies in the two small clamping plates which keep the end stop in position, even if the rails are mounted vertically.

Simply snap on – that's it!

In addition, costs are significantly reduced when using large numbers of end stops.

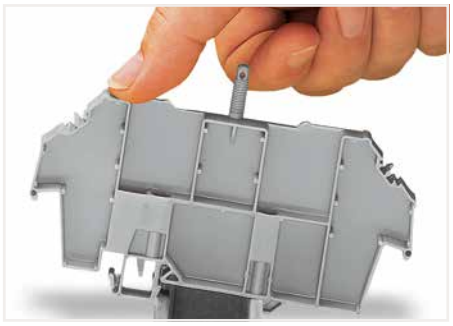
Additional benefit: Three marker slots for all WAGO Rail-Mount Terminal Block Marking Systems and one snap-in hole for WAGO's adjustable height group marker carriers offer individual marking options.

Mounting Foot

Mounting foot; for isolated DIN-35 rail mounting		
Color	Item No.	Pack. Unit
◯ gray	**209-106**	25

Double-deck terminal blocks:
A double-deck marker carrier (2000-121) can be retrofitted to double-deck terminal blocks without a marker carrier.

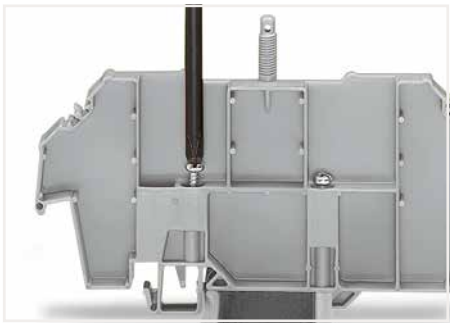
Sealable, Transparent Covers for Rail-Mount Terminal Blocks
709 Series
Description and Installation



Snapping a cover carrier onto the DIN-rail.

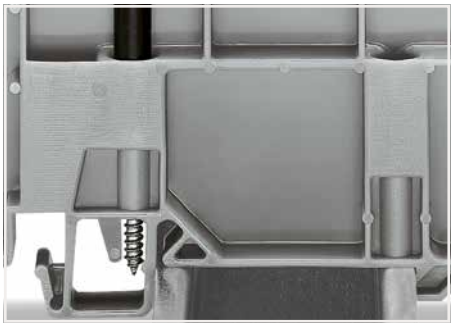
Application example:
Cover (type 1) without safety warning

Application example:
Cover (type 1) with safety warning

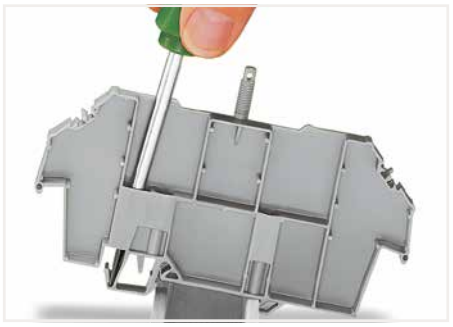


Tightening both securing screw (left) and mounting screw (right).

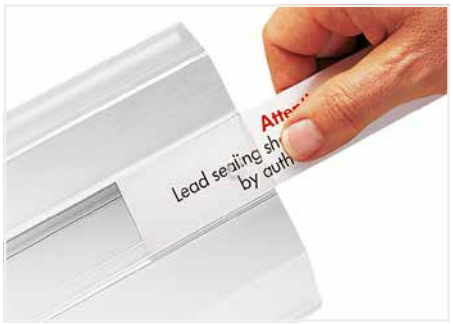
Application example:
Cover (type 2) with safety warning



Securing screw – prevents lifting off from the rail.
Mounting screw – prevents the cover carrier from being moved on the rail.



Removing a cover carrier from the DIN-rail.



Inserting a marking strip into the cover.

Cover with lead seals:
Using covers without lead seals,
the thread dome-head can be broken off.

Sealable, Transparent Cover; for Rail-Mount Terminal Blocks
709 Series

Cover; Type 1; for cover carrier (type 1); 1 m long

Color	Item No.	Pack. Unit
transparent	709-153	10

Cover; Type 2; for cover carrier (type 2); 1 m long

Color	Item No.	Pack. Unit
transparent	709-154	10

Cover carrier; Type 1; incl. mounting/securing screws and knurled nut; for rail-mount terminal blocks (279 to 282, 880 Series); for "Mini" rail-mount terminal blocks (264 Series); for sensor/actuator terminal blocks (270 Series)

Color	Item No.	Pack. Unit
gray	709-167	10

Cover carrier; Type 2; incl. mounting/securing screws and knurled nut; for rail-mount terminal blocks (283 to 285 Series); for double- and triple-deck terminal blocks (279 to 281 Series); for TOPJOB® rail-mount terminal blocks (780 to 785 and 775 Series); for sensor/actuator terminal blocks (280 Series); for disconnect/test terminal blocks for transformer circuits (282 Series)

Color	Item No.	Pack. Unit
gray	709-168	10

Accessories

Marking card; with 6 marking strips; for group marking or safety instructions

plain	709-183	1

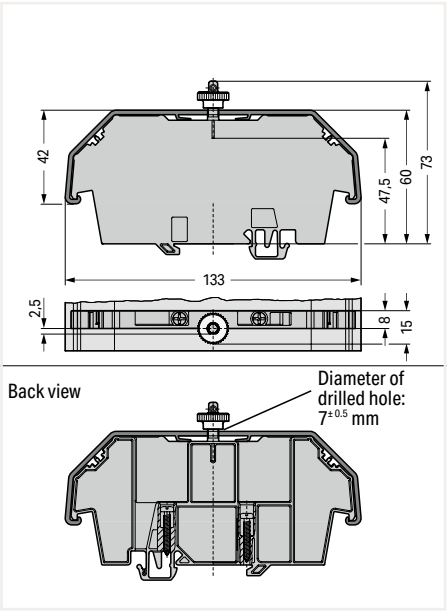
Spare mounting/securing screw; for cover

209-196	200 (25)

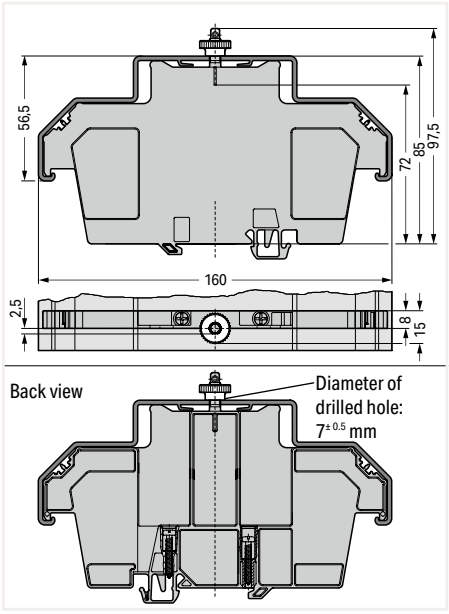
Spare knurled nut; for cover

210-549	100 (25)

Dimensions in mm



Dimensions in mm



13

Sealable, Transparent Cover; for Rail-Mount Terminal Blocks
709 Series

Cover; Type 3; for cover carrier (type 3); 1 m long		
Color	Item No.	Pack. Unit
transparent	**709-156**	10

Cover carrier; Type 3; for rail-mount terminal blocks (2000 to 2016 Series, 2102 to 2116 Series, 2200 to 2216 Series); for transformer terminal blocks (2007 Series)		
Color	Item No.	Pack. Unit
gray	**709-169**	10

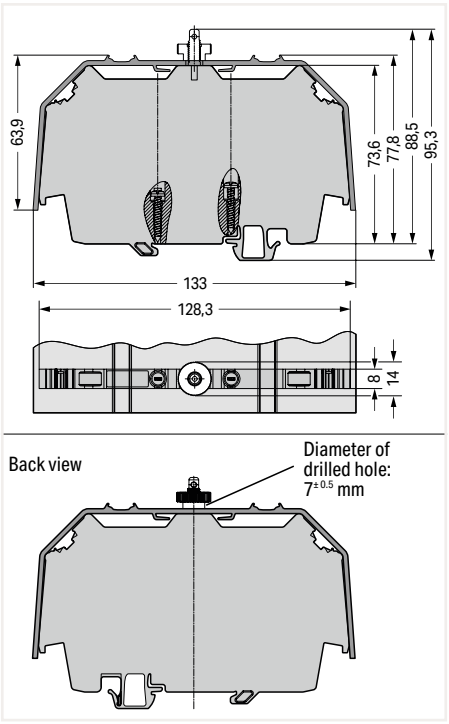
Accessories

Marking card; with 6 marking strips; for group marking or safety instructions		
plain	**709-183**	1

Spare mounting/securing screw; for cover		
	209-196	200 (25)

Spare knurled nut; for cover		
	210-549	100 (25)

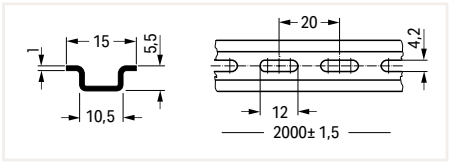
Dimensions in mm



13

DIN-Rail and End Stop; for DIN-15 Rail

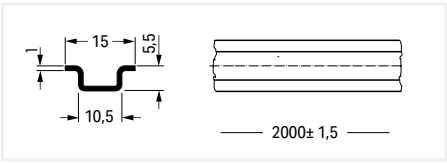
Dimensions in mm



Steel DIN-rail; I_N 57 A (based on 1 m length); 15 x 5.5 mm; 1 mm thick; 2 m long; per EN 60715

	Item No.	Pack. Unit
slotted	**210-111**	10 (1)

Dimensions in mm



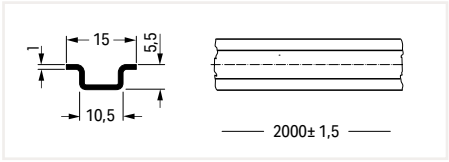
Aluminum DIN-rail; I_N 57 A (based on 1 m length); 15 x 5.5 mm; 1 mm thick; 2 m long; similar to EN 60715

	Item No.	Pack. Unit
unslotted	**210-296**	10 (1)

Screwless end stop; for DIN-15 rail; 6 mm wide; for WMB markers

Color	Item No.	Pack. Unit
gray	**249-101**	25

Dimensions in mm



Steel DIN-rail; I_N 57 A (based on 1 m length); 15 x 5.5 mm; 1 mm thick; 2 m long; per EN 60715

	Item No.	Pack. Unit
unslotted	**210-295**	1

Operating Tool

Operating tool with a partially insulated shaft; Type 1; (2.5 x 0.4) mm blade

Item No.	Pack. Unit
210-719	50 (1)

Operating tool with a partially insulated shaft; Type 2; (3.5 x 0.5) mm blade

Item No.	Pack. Unit
210-720	50 (1)

Operating tool with a partially insulated shaft; Type 3; (5.5 x 0.8) mm blade

Item No.	Pack. Unit
210-721	25 (1)

Set of operating tools with a partially insulated shaft; Type 1; (2.5 x 0.4) mm blade; Type 2; (3.5 x 0.5) mm blade; Type 3; (5.5 x 0.8) mm blade

Item No.	Pack. Unit
210-722	1

Operating tool; Blades: 3.5 mm and 2.5 mm; for installation terminal blocks (TOPJOB® S)

Item No.	Pack. Unit
2009-309	1

Operating tool; Blades: 3.5 mm and 5.5 mm; for installation terminal blocks (TOPJOB® S)

Item No.	Pack. Unit
2009-310	1

Operating tool with a partially insulated shaft; Type 1; (2.5 x 0.4) mm blade; short

Item No.	Pack. Unit
210-647	50 (1)

Operating tool with a partially insulated shaft; (2.5 x 0.4) mm blade; short; angled

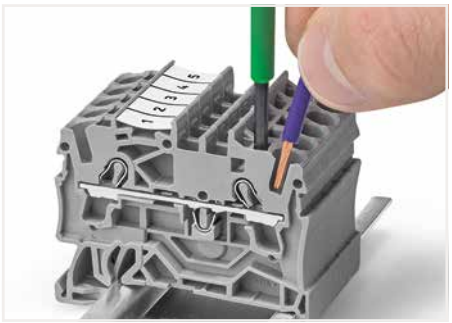
Item No.	Pack. Unit
210-648	50 (1)

Operating tool with a partially insulated shaft; (3.5 x 0.5) mm blade; short

Item No.	Pack. Unit
210-657	50 (1)

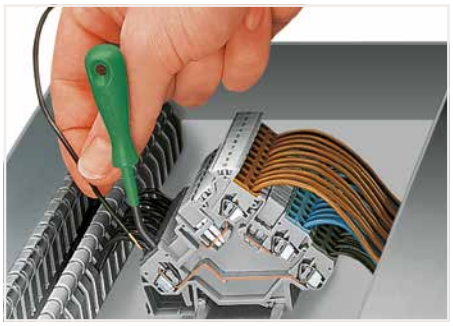
Operating tool with a partially insulated shaft; (3.5 x 0.5) mm blade; short; angled

Item No.	Pack. Unit
210-658	50 (1)



The blade of this operating tool with a partially insulated shaft is ideal for operating front-entry terminal blocks.

Open the clamping unit using an operating tool.



This operating tool with blade dimensions per DIN 5264 is ideal for front-entry sensor/actuator terminal blocks (280 Series).

Set of operating tools in a box (210-722)

Operating Tool

Operating tool; insulated; for 279 Series		
	Item No.	Pack. Unit
1-way	209-129	1
2-way	279-432	1
3-way	279-433	1
10-way	279-440	1

Operating tool; insulated; for 264 Series (1- and 2-way only), 280, 281 Series (up to 3-way only)		
1-way	209-130	1
2-way	280-432	1
3-way	280-433	1
4-way	280-434	1
5-way	280-435	1
6-way	280-436	1
7-way	280-437	1
8-way	280-438	1
9-way	280-439	1
10-way	280-440	1

Operating tool; insulated; for 281 Series		
5-way	281-440	1

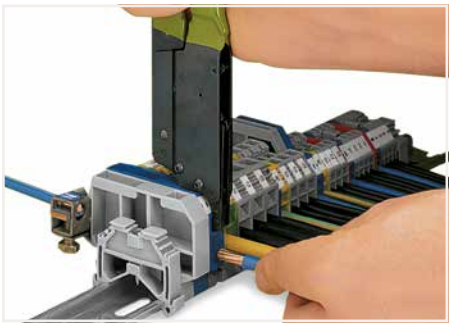
Operating pliers; for side-entry rail-mount terminal blocks (281, 282, 283 and 284 Series)		
	Item No.	Pack. Unit
	210-141	1

Operating pliers; for side-entry rail-mount terminal blocks (279 and 280 Series)		
	210-143	1

T-wrench with a partially insulated shaft		
	Item No.	Pack. Unit
	285-172	1

T-wrench with a partially insulated shaft and anti-rotation protection		
	285-173	1

Commoning front-entry disconnect terminal blocks via comb-style jumper bar using a 10-pole operating tool.



When operating the handles beyond the locked position, the ratchet allows the tool to open and be removed from the terminal block.
The operating pliers are placed into the upper operating slot of the rail-mount terminal block and the clamp is hooked into the lateral operating slot. The contact is fully opened by pressing the handles together until they engage. This will allow both hands to be used for wiring the terminal blocks.

T-wrench with a partially insulated shaft and anti-rotation protection (285-173)

Test and Measurement Devices
206 Series

Profi-LCD+; 2-pole voltage tester with LCD display; removable 4 mm Ø test probes

	Item No.	Pack. Unit
	206-707	1

Additional Profi-LCD+ features:
- Automatic measurement range selection
- Single-pole phase testing AC >100 V
- Two-pole sequence testing (R and L)
- Continuity testing
- RDC/RCD testing (30 mA) via buttons
- One-hand operation for SCHUKO® and CEE sockets
- LED torch lamp function
- Automatic backlight
- Auto power-off function
- CAT IV 1000 V
- TÜV/GS tested and approved
- IEC/EN 61243-3 (DIN VDE 0682-401)

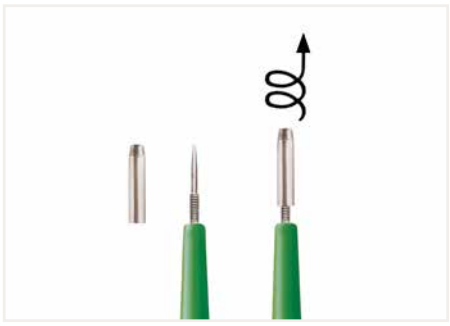
Profi-LED+; 2-pole voltage tester with LED display; removable 4 mm Ø test probes

	Item No.	Pack. Unit
	206-706	1

Additional Profi-LED+ features:
- Automatic measurement range selection
- Single-pole phase testing AC >100 V
- Two-pole sequence testing (R and L)
- Continuity testing
- RDC/RCD testing (30 mA) via buttons
- One-hand operation for SCHUKO® and CEE sockets
- LED torch lamp function
- CAT IV 1000 V
- TÜV/GS tested and approved
- IEC/EN 61243-3 (DIN VDE 0682-401)

Spare test probes; 4 mm Ø (2 pieces)

	Item No.	Pack. Unit
	206-808	25



Profi-LED+:
- Improved socket contact via 4 mm Ø test probes
- Removable test probes for small test ports (suitable for all WAGO Terminal Blocks)

13

Cable Stripper

In-socket cable stripper; for Ø 8 … 13 mm / 5/16 … 1/2 inch

Item No.	Pack. Unit
206-1441	1

Product features:
- Extra long design and improved force transmission simplifies stripping in deep device connection sockets
- Special four-blade design for an even more precise round cut
- No cutting depth adjustment required
- TiN-coated blades, TÜV/GS tested
- Ø 8 … 13 mm / 5/16 … 1/2 inch
- Strips all standard round cables, including NYM 3 x 1.5 mm²/16 AWG … 5 x 2.5 mm²/14 AWG

Universal cable stripper; for Ø 8 … 13 mm / 5/16 … 1/2 inch

Item No.	Pack. Unit
206-1442	1

Sheath stripping: longitudinal cut

Product features:
- Secure grip achieved with soft padding for non-slip grips
- Technically improved functionality
- New locking mechanism prevents the unwanted opening of the tool
- Absolutely straightforward, quick and easy longitudinal cuts – with innovative internal cable duct
- Redesigned blade layout and intake to stop cable waste from jamming the tool
- Durable and ergonomically designed pocket clip
- Ø 8 … 13 mm / 5/16 … 1/2 inch

Stripping a cable sheath.

Built-in handy knife

Stripping a wire insulation.

Data cable stripper; for Ø 4.5 … 10 mm / 3/16 … 3/8 inch

Item No.	Pack. Unit
206-1451	1

Product features:
- Strip outer insulation and foil sheathing with one tool
- Ideal for stripping PVC-insulated data cables with thin insulation (e.g., Cat. 5, Cat. 6, Cat. 7, twisted pair cable)
- TiN-coated blades
- Ø 4.5 … 10 mm / 3/16 … 3/8 inch

13

Cable Stripper

Stripping pliers; for sensor cables; for Ø 3.2 … 4.4 mm / 0.13 … 0.17 inch		
	Item No.	Pack. Unit
	206-1481	1

Item-Specific Accessories		
Replacement blade set; for Ø 3.2 … 4.4 mm / 0.13 … 0.17 inch		
	206-1491	1

Stripping pliers; for control cables; for Ø 4.4 … 7 mm / 0.17 … 0.27 inch		
	Item No.	Pack. Unit
	206-1482	1

Item-Specific Accessories		
Replacement blade set; for Ø 4.4 … 7 mm / 0.17 … 0.27 inch		
	206-1492	1

Never use this tool on or near live electrical circuits!

The stripping pliers for sensor cables have a blade geometry specially designed for sensor cables with a smaller cross section and a working range from Ø 3.2 mm / 0.13 inch (for stranded cables and round cables with Ø 3.2 mm … 4.4 mm / 0.13 … 0.17 inch).

The stripping pliers for control cables are designed for stronger cables from Ø 4.4 mm / 0.17 inch (for stranded cables and round cables with Ø 4.4 mm … 7 mm / 0.17 … 0.27 inch).

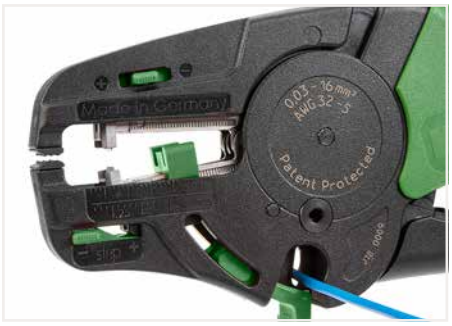
These stripping pliers quickly and safely strip cables for connecting, e.g., sensor/actuator distribution boxes, bus couplers and pluggable connectors.

Suitable for:
- Halogen-free PUR sensor/actuator cables
- Highly flexible TPE-U cables
- Control cables
- PUR cables
- PUR/PVC cables
- PVC cables
- Multi-core cables
- Shielded and unshielded cables

Wire Stripper

Wire stripper “Quickstrip Vario”; 0.03 … 16 mm² / 34 … 6 AWG; with wire cutter		
	Item No.	Pack. Unit
	206-1125	1

Accessories		
Blade set; Standard; 0.03 … 16 mm² / 34 … 6 AWG		
	206-1126	1
Blade set; V-blade; 0.14 … 4 mm² / 24 … 12 AWG		
	206-1127	1
Blade set; Oval blade; 10 … 16 mm² / 8 … 6 AWG		
	206-1128	1
Spare stripping stop		
	206-1129	1
Spare cut protector		
	206-1131	1
Spare clamping jaws		
	206-1132	1



Cutting a conductor.

Partially stripping a conductor.

Wire Stripper:
- Automatically adjust to conductor size
- Stripping blades cause no damage to conductor strands
- Gripping pressure of jaws adjusts automatically to conductor insulation diameter
- Clamping jaws and stripping blades automatically open once the stripping process is completed – no splaying of the conductor strands
- Exact strip length may be set by sliding black setting stop
- Stripping blades can be replaced
- Self-sharpening, fully protected cutter (replaceable)
- Entire body made of glass-fiber-reinforced polyamide
- Cutting capacity of the wire cutter of fine-stranded conductors up to 16 mm² (6 AWG)

Crimping Tool

Crimping tool “Variocrimp 4”; for insulated and uninsulated ferrules; Crimping range: 0.25 … 4 mm² (24 … 12 AWG)		
	Item No.	Pack. Unit
	206-1204	1

Spring clamp; large		
	206-1205	1

Spring clamp; small		
	206-1206	1

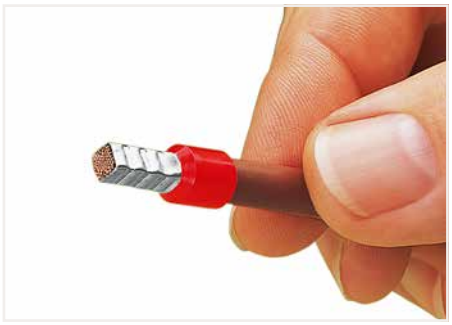
PUR spring set		
	206-1207	1

Crimping tool “Variocrimp 16”; for insulated and uninsulated ferrules; Crimping range: 6 mm² (10 AWG), 10 mm² (8 AWG) and 16 mm² (6 AWG)		
	Item No.	Pack. Unit
	206-1216	1

Spring clamp; small		
	206-1206	1

Application notes:

- The built-in crimping pressure control of “Variocrimp 4” automatically adjusts the crimping force to the conductor cross section. Select the wire gauge on “Variocrimp 16” before crimping.
- Only one crimping station is needed to handle the specified conductor range.
- Uniform, compact crimping on all four sides for high conductor retention.
- No need to center the ferrules into the terminal blocks.
- Crimping can be performed from either side (for left- or right-handed users).
- Built-in ratchet mechanism ensures gas-tight crimp connection.
- Crimping tools open automatically after crimping operation is complete.
- Ergonomically designed handles.



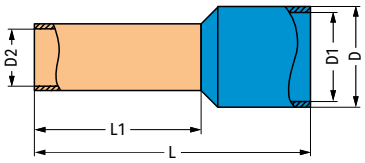
A perfect gas-tight crimp – both electrically and mechanically reliable

Insert the ferruled conductor into the crimping station.

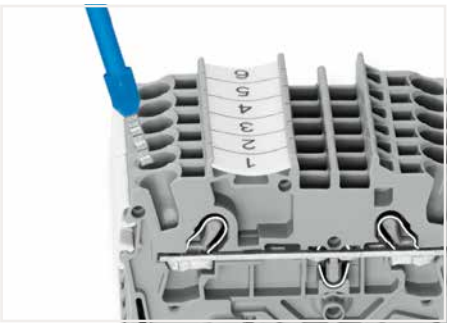
Squeeze handles until ratchet mechanism is released.

Only for “Variocrimp 16”:
Adjust conductor cross section with crimping tool in open position.

Insulated ferrule; for Rail-Mount Terminal Block TOPJOB® S

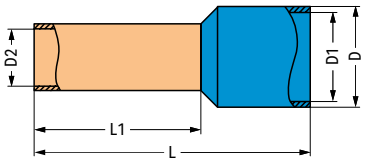


Ferrule; insulated; electro-tin-plated; electrolytic copper; gastight crimped; per DIN 46288 (Part 4/09.09)									
Conductor Cross Section	Color	Strip Length	L	L 1	D	D 1	D 2	Item No.	Pack. Unit
0.5 mm² / 20 AWG	white	12 mm / 0.47 inch	16	10	3,1	2,6	1	216-241	1000
0.75 mm² / 18 AWG	gray	12 mm / 0.47 inch	16	10	3,3	2,8	1,2	216-242	1000
0.75 mm² / 18 AWG	gray	14 mm / 0.55 inch	18	12	3,3	2,8	1,2	216-262	1000
1 mm² / 18 AWG	red	12 mm / 0.47 inch	16	10	3,5	3	1,4	216-243	1000
1 mm² / 18 AWG	red	14 mm / 0.55 inch	18	12	3,5	3	1,4	216-263	1000
1.5 mm² / 16 AWG	black	12 mm / 0.47 inch	16	10	4	3,5	1,7	216-244	1000
1.5 mm² / 16 AWG	black	14 mm / 0.55 inch	18	12	4	3,5	1,7	216-264	1000
1.5 mm² / 16 AWG	black	20 mm / 0.79 inch	24	18	4	3,5	1,7	216-284	500
2.5 mm² / 14 AWG	blue	12 mm / 0.47 inch	17	10	4,7	4,2	2,2	216-246	1000
2.5 mm² / 14 AWG	blue	14 mm / 0.55 inch	19	12	4,7	4,2	2,2	216-266	1000
2.5 mm² / 14 AWG	blue	20 mm / 0.79 inch	25	18	4,7	4,2	2,2	216-286	500
4 mm² / 12 AWG	gray	14 mm / 0.55 inch	20	12	5,4	4,8	2,8	216-267	500
4 mm² / 12 AWG	gray	20 mm / 0.79 inch	26	18	5,4	4,8	2,8	216-287	100
6 mm² / 10 AWG	yellow	14 mm / 0.55 inch	20	12	6,9	6,3	3,5	216-208	100
6 mm² / 10 AWG	yellow	20 mm / 0.79 inch	26	18	6,9	6,3	3,5	216-288	100
10 mm² / 8 AWG	red	20 mm / 0.79 inch	28	18	8,4	7,6	4,5	216-289	100
16 mm² / 6 AWG	blue	23 mm / 0.91 inch	28	18	9,6	8,8	5,8	216-210	100

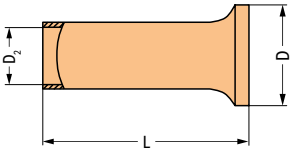


Fine-stranded conductors with ferrules from at least two sizes below the rated cross section up to the rated cross section can also be simply pushed in – without tools.

Insulated and Uninsulated Ferrules; for Chassis-Mount Terminal Strip

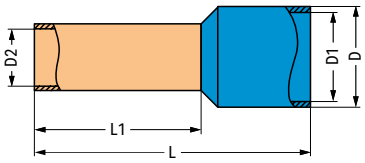


Ferrule; insulated; electro-tin-plated; electrolytic copper; gastight crimped; per DIN 46288 (Part 4/09.09)									
Conductor Cross Section	Color	Strip Length	L	L 1	D	D 1	D 2	Item No.	Pack. Unit
0.5 mm² / 20 AWG	white	12 mm / 0.47 inch	16	10	3,1	2,6	1	216-241	1000
0.75 mm² / 18 AWG	gray	12 mm / 0.47 inch	16	10	3,3	2,8	1,2	216-242	1000
1 mm² / 18 AWG	red	12 mm / 0.47 inch	16	10	3,5	3	1,4	216-243	1000
1.5 mm² / 16 AWG	black	12 mm / 0.47 inch	16	10	4	3,5	1,7	216-244	1000

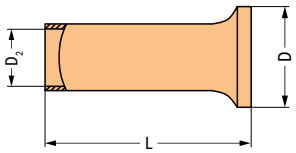


Ferrule; uninsulated; electro-tin-plated; electrolytic copper; gastight crimped; per DIN 46288 (Part 4/09.09)						
Conductor Cross Section	Strip Length	L	D	D 2	Item No.	Pack. Unit
0.5 mm² / 20 AWG	10 mm / 0.39 inch	10	2,1	1	216-141	5000 (1000)
0.75 mm² / 18 AWG	10 mm / 0.39 inch	10	2,3	1,2	216-142	5000 (1000)
1 mm² / 18 AWG	10 mm / 0.39 inch	10	2,5	1,4	216-143	5000 (1000)
1.5 mm² / 16 AWG	10 mm / 0.39 inch	10	2,8	1,7	216-144	5000 (1000)

Insulated and Uninsulated Ferrules



Ferrule; insulated; electro-tin-plated; electrolytic copper; gastight crimped; per DIN 46288 (Part 4/09.09)									
Conductor Cross Section	Color	Strip Length	L	L 1	D	D 1	D 2	Item No.	Pack. Unit
0.25 mm² / 24 AWG	yellow	7 mm / 0.28 inch	10	6	2,3	1,8	0,85	216-321	1000
0.25 mm² / 24 AWG	yellow	9 mm / 0.35 inch	12	8	2,3	1,8	0,85	216-301	1000
0.34 mm² / 22 AWG	green	7 mm / 0.28 inch	10	6	2,5	2	0,85	216-322	1000
0.34 mm² / 22 AWG	green	9 mm / 0.35 inch	12	8	2,5	2	0,85	216-302	1000
0.5 mm² / 20 AWG	white	7 mm / 0.28 inch	12	6	3,1	2,6	1	216-221	1000
0.5 mm² / 20 AWG	white	9 mm / 0.35 inch	14	8	3,1	2,6	1	216-201	1000
0.75 mm² / 18 AWG	gray	8 mm / 0.31 inch	12	6	3,3	2,8	1,2	216-222	1000
0.75 mm² / 18 AWG	gray	10 mm / 0.39 inch	14	8	3,3	2,8	1,2	216-202	1000
1 mm² / 18 AWG	red	8 mm / 0.31 inch	12	6	3,5	3	1,4	216-223	1000
1 mm² / 18 AWG	red	10 mm / 0.39 inch	14	8	3,5	3	1,4	216-203	1000
1.5 mm² / 16 AWG	black	8 mm / 0.31 inch	12	6	4	3,5	1,7	216-224	1000
1.5 mm² / 16 AWG	black	10 mm / 0.39 inch	14	8	4	3,5	1,7	216-204	1000
2.08 mm² / 14 AWG	yellow	10 mm / 0.39 inch	15	8	4,8	4,2	2,05	216-205	1000
2.5 mm² / 14 AWG	blue	10 mm / 0.39 inch	15	8	4,7	4,2	2,2	216-206	1000
4 mm² / 12 AWG	gray	12 mm / 0.47 inch	18	10	5,4	4,8	2,8	216-207	500
6 mm² / 10 AWG	yellow	14 mm / 0.55 inch	20	12	6,9	6,3	3,5	216-208	100
10 mm² / 8 AWG	red	16 mm / 0.63 inch	22	12	8,4	7,6	4,6	216-209	100
16 mm² / 6 AWG	blue	23 mm / 0.91 inch	28	18	9,6	8,8	5,8	216-210	100



Ferrule; uninsulated; electro-tin-plated; electrolytic copper; gastight crimped; per DIN 46288 (Part 4/09.09)						
Conductor Cross Section	Strip Length	L	D	D 2	Item No.	Pack. Unit
0.25 mm² / 24 AWG	5 mm / 0.2 inch	5	1,7	0,75	216-151	1000
0.25 mm² / 24 AWG	7 mm / 0.28 inch	7	1,7	0,75	216-131	1000
0.34 mm² / 22 AWG	5 mm / 0.2 inch	5	1,8	0,85	216-152	1000
0.34 mm² / 22 AWG	7 mm / 0.28 inch	7	1,8	0,85	216-132	1000
0.5 mm² / 20 AWG	6 mm / 0.24 inch	6	2,1	1	216-121	1000
0.5 mm² / 20 AWG	8 mm / 0.31 inch	8	2,1	1	216-101	1000
0.75 mm² / 18 AWG	6 mm / 0.24 inch	6	2,3	1,2	216-122	1000
0.75 mm² / 18 AWG	8 mm / 0.31 inch	8	2,3	1,2	216-102	1000
1 mm² / 18 AWG	6 mm / 0.24 inch	6	2,5	1,4	216-123	1000
1 mm² / 18 AWG	8 mm / 0.31 inch	8	2,5	1,4	216-103	1000
1.5 mm² / 16 AWG	6 mm / 0.24 inch	6	2,8	1,7	216-124	1000
1.5 mm² / 16 AWG	8 mm / 0.31 inch	8	2,8	1,7	216-104	1000
2.5 mm² / 14 AWG	10 mm / 0.39 inch	10	3,4	2,2	216-106	1000
4 mm² / 12 AWG	10 mm / 0.39 inch	10	4	2,8	216-107	1000
6 mm² / 10 AWG	12 mm / 0.47 inch	12	4,7	3,5	216-108	500
10 mm² / 8 AWG	12 mm / 0.47 inch	12	5,8	4,5	216-109	500
16 mm² / 6 AWG	15 mm / 0.59 inch	15	7,5	5,8	216-110	500

Crimping Tool

Crimping tool 25; for insulated and uninsulated ferrules; crimping range: 10 mm² (8 AWG), 16 mm² (6 AWG) and 25 mm² (4 AWG)

	Item No.	Pack. Unit
	206-1225	1

Crimping tool 50; for insulated and uninsulated ferrules; crimping range: 35 mm² (2 AWG) and 50 mm² (1/0 AWG)

	Item No.	Pack. Unit
	206-1250	1

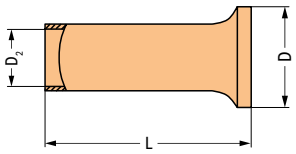
Application notes:
- Improved crimping for higher conductor retention
- Crimping can be performed from either side (for left- or right-handed users).
- Built-in ratchet mechanism ensures gas-tight crimp connection.
- Crimping tools open automatically after crimping operation is complete.
- Ergonomically designed handles.

Insert the ferruled conductor into the crimping station.

Squeeze handles until ratchet mechanism is released.

What is a "gas-tight" connection?
In a gas-tight connection, the conductor and the ferrule are compressed, eliminating all spaces. Under normal atmospheric conditions, neither a liquid nor gaseous medium can penetrate the crimped connection.
Oxidation between crimped single conductors is prevented, virtually eliminating the possibility of any increase in the crimped connection's resistance. In some exceptional cases, minute, isolated spaces may be present. However, these instances can be considered as closed off due to the twisted conductor.
Inadequate crimping can allow the conductor to be pulled out of the connection. Hollow spaces also remain, permitting oxidation formation and an increase in contact resistance.
Elevated resistance is detrimental for both signal transmission (signal flow is damped) and power transmission, resulting in power loss and contact heating (risk of fire).
Crimping tools with built-in ratchets are recommended (e.g., WAGO Crimping Tools). These tools open automatically after the crimping operation is complete. Space-saving crimping from all four sides is ideal for spring clamp termination.
Ferruled conductor cross sections specified for WAGO products are based on this crimping method.

Uninsulated Ferrule



Ferrule; uninsulated; electro-tin-plated; electrolytic copper; gastight crimped; per DIN 46288 (Part 4/09.09)						
Conductor Cross Section	Strip Length	L	D	D 2	Item No.	Pack. Unit
25 mm² / 4 AWG	25 mm / 0.98 inch	25	9,5	7,3	**216-413**	50
35 mm² / 2 AWG	25 mm / 0.98 inch	25	11	8,3	**216-414**	50
35 mm² / 2 AWG	30 mm / 1.18 inch	30	11	8,3	**216-424**	50
50 mm² / 1/0 AWG	30 mm / 1.18 inch	30	13	10,3	**216-425**	50
50 mm² / 1/0 AWG	35 mm / 1.38 inch	35	13	10,3	**216-435**	50

Cable Cutter

Cable cutter; for copper and aluminum cables up to 35 mm² (2 AWG)		
	Item No.	Pack. Unit
	206-118	1

Cutting a cable.

“Alu-Plus” Contact Paste
Terminating Aluminum Conductors

Syringe; contains 20 ml “Alu-Plus” Contact Paste		
	Item No.	Pack. Unit
	249-130	20 (5)

WAGO Lighting Connectors
Push nozzle of the “Alu-Plus” syringe first into the circular entry and then into the square conductor entry hole of the WAGO Lighting Connector.

Press plunger down **until the “Alu-Plus” has filled both entry holes.**

Note: Not suitable for higher temperature applications!

Terminating Aluminum Conductors
WAGO spring clamp terminal blocks are suitable for solid aluminum conductors ❶ up to 4 mm²/12 AWG if WAGO “Alu-Plus” Contact Paste is used for termination.

Advantages of the “Alu-Plus” Contact Paste:
- Automatically destroys the oxide film during clamping.
- Prevents fresh oxidation at the clamping point.
- Prevents electrolytic corrosion between aluminum and copper conductors (in the same terminal block).
- Provides long-term protection against corrosion.

WAGO Rail-Mount Terminal Blocks (up to 4 mm²/12 AWG)
For each conductor entry: Insert nozzle of the “Alu-Plus” syringe in every open conductor entry hole (one after the other).

Press plunger down until “Alu-Plus” has filled all conductor entry holes.

Using terminal blocks with CAGE CLAMP® Spring Pressure Connection Technology, **aluminum conductors must first be cleaned with a blade** and then immediately be inserted into the clamping units filled with “Alu-Plus” Contact Paste.

It is also possible to apply WAGO “Alu-Plus” **additionally** on the whole surface of the aluminum conductor before termination.

Please note that the nominal currents must be adapted to the reduced conductivity of the aluminum conductors:

2.5 mm² (14 AWG) = 16 A
4 mm² (12 AWG) = 22 A

WAGO “Alu-Plus” in the syringe offers a higher degree of reliability and cleanliness when terminating solid aluminum conductors. Filling is quickly performed on selected WAGO connectors and terminal blocks (see pictures).

❶ Aluminum conductors per IEC 61545 standard, Class B, “Alloy 1370” with 90 … 180 N/mm² tensile strength and 1 … 4% elongation
Standard values: 90 … 180 MPa tensile strength, 1 … 4% elongation (per EN 615.4.1)

Test and Measurement Devices
206 Series

Multi-Tester; digital multimeter with non-contact voltage tester		
	Item No.	Pack. Unit
	206-810	1

Clamp-Multi-Tester		
	Item No.	Pack. Unit
	206-816	1

Testboy; with integrated flashlight, non-contact voltage tester		
	Item No.	Pack. Unit
	206-804	1

Multi-Tester features:
- Contact-less voltage test AC >100 V (optical and acoustical)
- Resistance measurement up to 20 MΩ
- Acoustical continuity test
- Diode test
- Data hold function
- Auto power-off function
- LED torch lamp function
- CAT IV 600 V
- TÜV/GS tested and approved
- IEC/EN 61010-1 (DIN VDE 0411)

Voltage testing in control cabinet
Clamp-Multi-Tester features:
- DC and AC current up to 600 A
- True RMS and min./max. value measurement
- DC and AC voltage up to 600 V
- Manual or automatic measurement range selection
- Resistance up to 60 MΩ
- Capacitance measurement, acoustical continuity test
- Diode test, data hold function
- Large LCD with backlight
- LED measuring point lighting
- CAT III 600 V overvoltage protection
- IEC/EN 61010-1 (DIN VDE 0411)
- Includes batteries, measurement leads and carrying bag

A device that will reliably detect AC voltage in cables, sockets, fuses, switches, outlets and other installations.
Testboy can detect the following:
- Live conductors
- Cable breaks
- Blown fuses (in cartridges or holders)
- Defective switches
- Defective lamps in strings of lights

Current measurement in a control cabinet

13

Test and Measurement Devices
206 Series

Profi-LCD+; 2-pole voltage tester with LCD display; removable 4 mm Ø test probes

	Item No.	Pack. Unit
	206-707	1

Additional Profi-LCD+ features:
- Automatic measurement range selection
- Single-pole phase testing AC >100 V
- Two-pole sequence testing (R and L)
- Continuity testing
- RDC/RCD testing (30 mA) via buttons
- One-hand operation for SCHUKO® and CEE sockets
- LED torch lamp function
- Automatic backlight
- Auto power-off function
- CAT IV 1000 V
- TÜV/GS tested and approved
- IEC/EN 61243-3 (DIN VDE 0682-401)

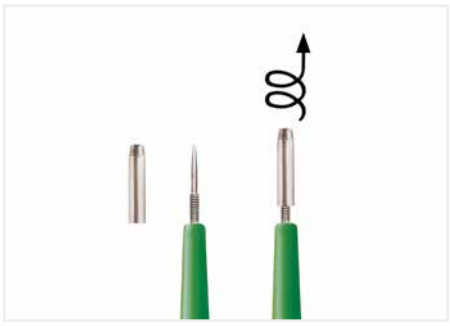
Profi-LED+; 2-pole voltage tester with LED display; removable 4 mm Ø test probes

	Item No.	Pack. Unit
	206-706	1

Additional Profi-LED+ features:
- Automatic measurement range selection
- Single-pole phase testing AC >100 V
- Two-pole sequence testing (R and L)
- Continuity testing
- RDC/RCD testing (30 mA) via buttons
- One-hand operation for SCHUKO® and CEE sockets
- LED torch lamp function
- CAT IV 1000 V
- TÜV/GS tested and approved
- IEC/EN 61243-3 (DIN VDE 0682-401)

Spare test probes; 4 mm Ø (2 pieces)

	Item No.	Pack. Unit
	206-808	25

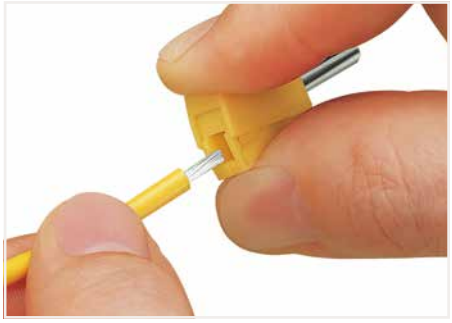


Profi-LED+:
- Improved socket contact via 4 mm Ø test probes
- Removable test probes for small test ports (suitable for all WAGO Terminal Blocks)

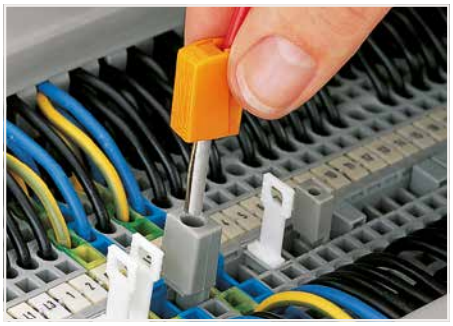
13

Banana Plug (Only for Safety Extra-Low Voltage)
215 Series

Technical Data	
0.08 … 2.5 mm²	28 … 14 AWG
max. 42 V	
Test current: 20 A	
Measuring range category: CAT I	
9 … 11 mm / 0.35 … 0.43 inch	

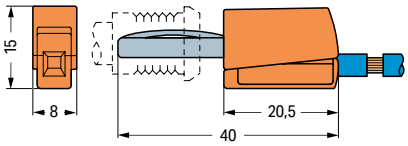


Conductor termination: Press button fully, insert stripped conductor into square entry and release.



Testing via banana plug.
Picture shows a test plug adapter (209-170).

Banana plug; for 4 mm socket diameter; color mixed; 10 x orange, white, black, blue, yellow		
	Item No.	Pack. Unit
	215-111	50



Dimensions in mm

Banana plug; single

Banana plug; for 4 mm socket diameter			
	orange	215-211	50

Banana plug; for 4 mm socket diameter			
	red	215-212	50

Banana plug; for 4 mm socket diameter			
	black	215-311	50

Banana plug; for 4 mm socket diameter			
	green	215-411	50

Banana plug; for 4 mm socket diameter			
	yellow	215-511	50

Banana plug; for 4 mm socket diameter			
	white	215-611	50

Banana plug; for 4 mm socket diameter			
	blue	215-711	50

Banana plug; for 4 mm socket diameter			
	gray	215-811	50

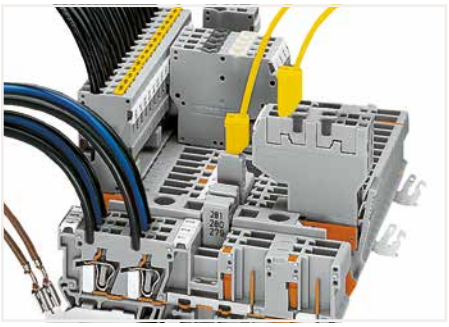
Banana plug; for 4 mm socket diameter			
	green-yellow	215-911	50

Test Plug
210 Series

Test plug; with 500 mm cable; 2 mm Ø; max. 42 V		
Color	Item No.	Pack. Unit
red	210-136	50

Test plug; with 500 mm cable; 2.3 mm Ø; max. 42 V		
Color	Item No.	Pack. Unit
yellow	210-137	50

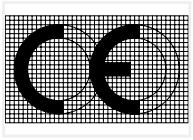
Testing via 2 mm Ø test plug.



Testing via 2 or 2.3 mm Ø test plugs.

Technical Section

Technical Section

		Page
	**Technical information** **CE Marking and EC Directives**	632
	Tests and testing procedures Mechanical, Electrical, Material and Environmental Tests	634
	UL Specifications – Underwriters Laboratories, USA Tests and Testing Procedures per UL Standards	654
	"Alu-Plus" Contact Paste Terminating aluminum conductors	659
	Material Specifications Insulation Materials, Contact Plating, Contact Materials and Clamping Spring Material	660
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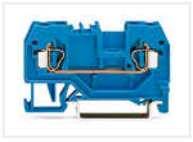
	All terminal blocks used in hazardous areas "Ex e II" have their item numbers marked with the Ex symbol.	
	**All terminal blocks used in intrinsically safe current circuits "Ex i" have their item numbers marked with a blue circle.**	
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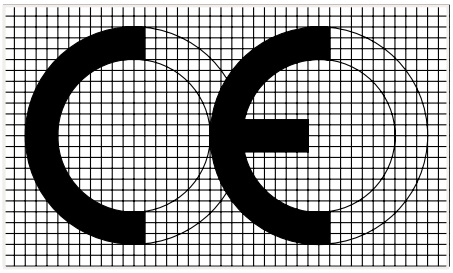
CE Marking and EC Directives

CE Conformity Marking

The CE conformity marking consists of the characters “CE” with the following script:



Communauté Européenne
(European Community)

WAGO Kontakttechnik GmbH & Co. KG products are developed, tested and marked in accordance with legally valid international standards and laws.

The CE mark is applied to products intended for the European domestic market; with it, manufacturers declare that the marked electrical equipment conforms with the applicable requirements set out in the Community harmonization legislation (EU Directives), which allows such equipment to carry this mark.

The original intention of this mark was to support the authorities in the EU member states in their market supervision, with the mark acting as a symbol of free movement of products within the EU. According to EC Directive 765/2008, a product can only be given the CE mark if the product requirements are defined in at least one appropriate EU directive. Examples of such directives are the Low Voltage Directive, the EMC Directive, the ATEX Directive, the Building Products Directive and the Machinery Directive. If more than one directive applies to a product, the product must comply with **all applicable directives**.

Only the basic requirements for achieving the defined aim of the directive are laid out in each respective directive. The individual technical details are specified according to the New Approach using lists with cross references to applicable standards (so-called harmonized standards).

1. Low Voltage Directive (LVD)

The safety of electrical equipment is guaranteed by the Low Voltage Directive (LVD). The LVD covers all electrical equipment operating with a voltage between 50 VAC and 1000 VAC and between 75 VDC and 1500 VDC.

Products falling within the scope of the Low Voltage Directive that are designed in such a way that they can be used in other electrical devices, and whose safety, for the most part, is dependant on how these components were built into the end product and what features the end product has, are defined as basic components in accordance with the Low Voltage Directive.

The LVD doesn’t apply to basic components.

The RoHS Directive also applies to electrical equipment covered by the Low Voltage Directive. This directive regulates the use of hazardous substances in electrical devices and components, with the aim of reducing the quantity of problematic components in electrical waste. Details about the materials used by WAGO are available in our catalogs, on our product packaging and on our Web page.

2. EMC Directive

The EMC Directive stipulates that a product must meet the limits on radiated electromagnetic disturbance and also requires that a product must be immune to electromagnetic interference.

Electromagnetic passive components or components with no direct function, such as terminal blocks, resistors, diodes, capacitors, switching relays or cables (in the form of passive printed circuit boards) are not considered as apparatus within the meaning of the EMC Directive.

3. ATEX Directive on Explosion Protection

The ATEX Directive defines the rules for products (devices and protective systems) intended for use in hazardous locations. A number of products from WAGO are designed for use in hazardous areas.

Based on potential hazards, the ATEX Directive makes a distinction between three different equipment groups, of which Group II and III are subdivided into further zones. Suitability of WAGO products for the different groups and zones is outlined in the specific product documents (catalogs, Internet site, data sheets and product inserts).

These may be either devices that can be used as equipment in these types of areas, or components that are required for safe operation, but which do not fulfill a dedicated function. Such components include rail-mount terminal blocks for use in hazardous areas.

Products in both groups must comply with the ATEX Directive.

4. Radio Communications Directive

The Radio Communications Directive applies to all devices that properly transmit or receive radio waves for wireless communications and/or radio orientation. The basic safety requirements apply to the protection of health for humans and animals and to electrical safety in line with the Low Voltage Directive, but without the application of the voltage limit. In addition, the EMC protection goals of the EMC Directive must also be fulfilled and efficient use of radio frequencies ensured. WAGO products covered by the Radio Communications Directive indicate, in compliance with applicable laws, only the Radio Communication Directive in their EU Declaration of Conformity, as fulfillment of the Low Voltage Directive and of the EMC Directive is implicit in this declaration.

5. Construction Products Regulation

The Construction Products Regulation demands that structures be designed and constructed such that the safety of humans, property and animals is not endangered and that all applicable environmental protection requirements be considered. Here, building products are defined as products or construction sets which are produced to be built permanently into structures and which make a significant contribution to fulfilling the basic requirements for the structure.

In the unanimous opinion expressed by the German electrical industry, including WAGO Kontakttechnik GmbH & Co. KG, products used in general installation technology are not included among these types of building products and are therefore not covered by this directive.

6. Machinery Directive

The Machinery Directive applies to machines (complete or incomplete) which perform their functions by means other than direct human or animal work, or safety components for these types of machines.

Therefore, this directive usually does not apply to WAGO products.

The manufacturers of machines or systems are required by this directive to use safe products and components in their machines and systems. Directive-compliant production and safe operation is facilitated by the use of WAGO products, with their standard-compliant, up-to-date design.

Significance of CE Mark for WAGO Products

One, several or none of the EU Directives may apply to the various WAGO products. If none of the directives apply, the CE marking will not be affixed to the product, in line with applicable laws. Furthermore, a declaration of conformity must not be issued. All other products are provided with the CE mark – either directly on the product, on its packaging or in the documents included with the product – and a declaration of conformity is issued, or made accessible to the customer.

The data sheets of the technically sound products that, according to the regulations, are not CE marked will refer to the standards used in the development and type and manufacturing testing wherever possible.

IEC/EN specifications

The following standards apply to the design and application of the terminal blocks and connectors contained in this catalog:

IEC 60364-1
HD 60364-1
VDE 0100-100
/ Erection of power installations with nominal voltages up to 1000 V
– Part 1: Fundamental principles, assessment of general characteristics, definitions

IEC 60364-7-710
HD 60364-7-710
VDE 0100-710
/– Part 7-718: Requirements for special installations or locations
– Medical areas

IEC 60364-7-718
HC 60364-7-718
VDE 0100-718
/– Part 7-718: Requirements for special installations or locations
– Communal facilities and workplaces

EN 50110-1
VDE 0105-1
/ Operation of electrical installations
– Part 1: General requirements

IEC 60664-1
EN 60664-1
VDE 0110-1
/ Insulation coordination for equipment within low-voltage systems
– Part 1: Principles, requirements and tests

IEC 60204-1
EN 60204-1
VDE 0113-1
/ Safety of machinery – Electrical equipment of machines
– Part 1: General requirements

IEC 61140
EN 61140
VDE 0140-1
/ Protection against electric shock
– Common aspects for installation and equipment

IEC 60079-0
EN 60079-0
VDE 0170-1
/ Harzardous areas
– Part 0: Equipment
– General requirements

IEC 60079-7
EN 60079-7
VDE 0170-6
/ Explosive atmospheres
– Part 7: Equipment protection by increased safety “e”

IEC 60079-11
EN 60079-11
VDE 0170-7
/ Harzardous areas
– Part 11: Equipment protection by intrinsic safety “i”

IEC 60079-14
EN 60079-14
VDE 0165-1
/ Harzardous areas
– Part 14: Electrical installations design, selection and erection

IEC 60079-15
EN 60079-15
VDE 0170-16
/ Explosive atmospheres
– Part 15: Equipment protection by type of protection “n”

EN 50628
VDE 0118-10
/ Installation of electrical equipment in mines

IEC 60038
EN 60038
VDE 0175-1
/ IEC CENELEC standard voltages

VDE 0298-4
/ Use of cables and insulated conductors in power installations
– Part 4: Recommended values for current carrying capacities of cables for fixed installation and for flexible cables

IEC 60112
EN 60112
VDE 0303-11
/ Method for determining the comparative and the proof tracking indices of solid insulation materials

IEC 60529
EN 60529
VDE 0470-1
/ Degrees of protection provided by enclosures (IP Code)
– Testing equipment and testing method

IEC 61439-1
EN 61439-1
VDE 0660-600-1
/ Low-voltage switchgear and control-gear assemblies
– Part 1: General rules

IEC 61439-3
EN 61439-3
VDE 0660-600-3
/– Low-voltage switchgear and control-gear assemblies
– Part 3: Distribution boards intended to be operated by ordinary persons (DBO)

IEC 61643-11
EN 61643-11
VDE 0675-6-11
/ Low-voltage surge protective devices
– Part 11: Surge protective devices connected to low-voltage power systems
– Requirements and test methods

IEC 60335-1
EN 60335-1
VDE 0700-1
/ Safety of household and similar electrical appliances
– Part 1: General requirements

IEC 60598-1
EN 60598-1
VDE 0711-1
/ Lighting fixtures
– Part 1: General requirements and tests

IEC 60715
EN 60715
/– Standardized mounting on rails for mechanical support of electrical devices in switchgear and control-gear installations

IEC 60999-1
EN 60999-1
VDE 0609-1
/ Connecting devices – Electrical copper conductors – Safety requirements for screw-type and screwless-type clamping units
– Part 1: General requirements and particular requirements for clamping units for conductors from 0.2 mm² up to 35 mm²

IEC 60999-2
EN 60999-2
VDE 0609-101
/– Part 2: General requirements and particular requirements for clamping units for conductors from 35 mm² up to 300 mm² (included)

IEC 60998-1
EN 60998-1
VDE 0613-1
/ Connecting devices for low-voltage circuits for household and similar purposes
– Part 1: General requirements

IEC 60998-2-1
EN 60998-2-1
VDE 0613-2-1
/– Part 2-1: Particular requirements for connecting devices as separate entities with screw-type clamping units

IEC 60998-2-2
EN 60998-2-2
VDE 0613-2-2
/– Part 2-2: Particular requirements for connecting devices as separate entities with screwless-type clamping units

IEC 60998-2-3
EN 60998-2-3
VDE 0613-2-3
/– Part 2-3: Particular requirements for connecting devices as separate entities with insulation-piercing clamping units

IEC 60947-1
EN 60947-1
VDE 0660-100
/ Low-voltage switchgear and controlgear
– Part 1: General rules

IEC 60947-7-1
EN 60947-7-1
VDE 0611-1
/– Part 7-1: Ancillary equipment
– Terminal blocks for copper conductors

IEC 60947-7-2
EN 60947-7-2
VDE 0611-3
/- Part 7-2: Ancillary equipment
– Ground conductor terminal blocks for copper conductors

IEC 60947-7-3
EN 60947-7-3
VDE 0611-6
/– Part 7-3: Ancillary equipment
– Safety requirements for fuse terminal blocks

VDE 0611-4
/ Rail-mount terminal blocks for connection of copper conductors;
– Multi-level distribution rail-mount terminal blocks up to 6 mm²

IEC 61984
EN 61984
VDE 0627
/ Connectors – Safety requirements and tests

Tests and Testing Procedures per IEC/EN Standards

Products such as connecting devices, rail-mount terminal blocks and connectors, etc., have their own product-specific test specifications. The following sections describe the most important tests and are limited to a description of the test procedures and an explanation of the test purpose. The data shown (e.g., voltages, temperatures, forces) only serve as illustration and may differ depending on the test.

Mechanical Tests

All WAGO products meet requirements for the following mechanical tests:

- Termination Requirements

Conductor Termination
Two WAGO connection systems are proven in the field of Spring Pressure Connection Technology:
The **PUSH WIRE® connection** for applications requiring solid conductors (e.g., for lighting and building wiring, telecommunications, house communication or alarm systems).
Conductor range:
0.2 … 4 mm² / 24 … 12 AWG
The **universal CAGE CLAMP® spring pressure connection system** for solid, stranded and fine-stranded conductors, designed for a variety of industrial, electrical and electronic applications (e.g., fine-stranded conductors in the elevator industry, in power stations, in the chemical and automotive industry, and aboard ships).
Conductor range:
0.08 … 35 mm² (28 … 2 AWG)

The **Push-in CAGE CLAMP® connection** takes universal CAGE CLAMP® connections further by allowing the termination of 0.2 … 16 mm² (24 … 6 AWG) solid, stranded and fine-stranded conductors (25 mm²/4 AWG only "f-st") and offering all the benefits and safety of the original CAGE CLAMP®. Furthermore, the Push-in CAGE CLAMP® connection technology allows solid, stranded and fine-stranded conductors with ferrules from 0.5 to 16 mm² (20 … 6 AWG) to be terminated by simply pushing them in.

The conductor entry hole is perfectly suited for the insulation diameter of the rated conductor cross section, thus providing good conductor guidance.

This is particularly important for vibration-prone applications.
Fine-stranded conductors of a small or very small size are highly flexible, and deform when pushed against the conductor stop in terminal blocks. As a result, the conductor insulation – not the copper conductor – may be clamped, causing intermittent contact or no contact at all.
In order to prevent conductor insulation from being inserted into the clamp, insulation stops are available for WAGO rail-mount terminal blocks up to 4 mm² (12 AWG), even providing protection for 0.08 mm² (28 AWG) conductors (see Section 5).

Rated Cross Sections and Connectable Conductors
I. Per IEC 60999-1 / EN 60999-1 / VDE 0609-1, Table 1:

Rated Cross Section	Theoretical Largest Conductor Diameter							Connectable Conductor	
	Metric			AWG					
	Rigid		Flexible	Rigid			Flexible	Rigid	Flexible
	Solid	Stranded			[b] Solid	[b] Class B Stranded	[c] Class I, K, M Stranded	To be defined in the corresponding product standard	
mm²	mm	mm	mm	Conductor Size	mm	mm	mm		
0.2	0.51	0.53	0.61	24	0.54	0.61	0.64		
0.34	0.63	0.66	0.8	22	0.68	0.71	0.8		
0.5	0.9	1.1	1.1	20	0.85	0.97	1.02		
0.75	1	1.2	1.3	18	1.07	1.23	1.28		
1	1.2	1.4	1.5	–	–	–	–		
1.5	1.5	1.7	1.8	16	1.35	1.55	1.6		
2.5	1.9	2.2	2.3[a]	14	1.71	1.95	2.08		
4	2.4	2.7	2.9[a]	12	2.15	2.45	2.7		
6	2.9	3.3	3.9[a]	10	2.72	3.09	3.36		
10	3.7	4.2	5.1	8	3.34	3.89	4.32		
16	4.6	5.3	6.3	6	4.32	4.91	5.73		
25	–	6.6	7.8	4	5.45	6.18	7.26		
35	–	7.9	9.2	2	6.87	7.78	9.02		

NOTE: The diameters of the largest rigid and flexible conductors are based on Table 1 of IEC 60228 A/IEC 60344 and on ASTM B172-71 [4], IECA Publication S-19-81 [5], IECA Publication S-66-524 [6], as well as IECA Publication S-66-516 [7] for AWG conductors.
[a] Dimensions for Class 5 flexible conductors only (IEC 60228 A)
[b] Nominal diameter +5%
[c] Largest diameter for conductors of classes I, K, M + 5%
In practical use, the conductor cross sections are approximately 5% below the values stated in the table!

The IEC 60999-1/EN 60999-1/VDE 0609-1 Specification (Section 7.1) requires that:

Clamping units must be able to connect unprepared conductors.

Under normal operating conditions, direct clamping (i.e., directly connecting a conductor to the terminal block's current bar) provides optimal contact quality, because all risk factors arising from anti-splaying methods are prevented.

Occasionally, conductor anti-splaying protection may be required, including various methods (see illustrations below).

Special requirements apply only in special application areas exposed to extremely corrosive atmospheres.

In this case, we recommend using either solid copper conductors or fine-stranded copper conductors with properly crimped, tin-coated copper ferrules or copper pin terminals.

II. Per IEC 60999-2, Table 1:

Rated Cross-Section	Theoretical Largest Conductor Diameter					Connectable Conductor	
	Metric		AWG/kcmil				
	Rigid Stranded	Fine-Stranded [a)]	Gauge	Rigid Stranded	Fine-Stranded		
mm²	mm	mm		mm	mm	Rigid	Flexible
50	9.1	11	1/0	9.64	12.08	To be defined in the corresponding product standard	
70	11	13.1	2/0	11.17	13.54		
95	12.9	15.1	3/0	12.54	15.33		
–	–	–	4/0	14.08	17.22		
120	14.5	17	250	15.34	19.01		
150	16.2	19	300	16.8	20.48		
185	18	21	350	18.16	22.05		
–	–	–	400	19.42	24.05		
240	20.6	24	500	21.68	26.57		
300	23.1	27	600	23.82	30.03		
Dimensions for Class 5 flexible conductors only (IEC 60228 A)							
NOTE: The diameters of the largest rigid and flexible conductors are based on Table 1 and Table 3 of IEC 3 A/IEC 60228 and on ASTM B172-71 [1], IECA Publication S-19-81 [2], IECA Publication S-66-524 [3], as well as IECA Publication S-66-516 [7] for AWG conductors.							

Tip-bonded conductor

Tin-plated copper ferrule (gas-tight crimped)

Ultrasonically bonded conductor

Crimped pin terminal (gas-tight), preferably made of copper with a tin-plated surface

Anti-splaying methods require a terminal block one size larger than the nominal cross section of the conductor to be terminated. Ferruled conductor cross sections specified for individual products are based on WAGO's Variocrimp square crimping technology. Gas-tight, crimped twin ferrules may be used, provided the ferrule is inserted all the way into the clamping unit and that there is a sufficient clearance and creepage distance between adjacent potentials.

As with solid copper conductors, the fine strands are crimped into a dense inner core. Crimping prevents ingress of aggressive atmospheres (depending on the ppm concentration), which can diffuse into the conductor bundle along the individual strands and deposit between individual strands and the clamping point.

One Conductor per Clamping Unit

A number of DIN VDE, EN, IEC directives mandate or recommend that only one conductor must be connected per clamping unit.

In accordance with DIN VDE 0611, Part 4, 02.91, Section 3.1.9, multi-level distribution rail-mount terminal blocks must be dimensioned so that a single (solid, stranded or fine-stranded) conductor of the nominal cross section can be connected at each terminal point.

Other VDE, EN and IEC specifications also recommend the connection of only one conductor per clamping unit, unless the clamping unit is specifically tested and approved for the connection of several conductors, for example:
VDE 0609, Part 1, 12.00 / EN 60999-1:2000/ IEC 60999-1:1999, Section 7.1
VDE 0660, Part 600, 06.12 / EN 61439-1:2011 / IEC 61439-1, Section 8.6.3
VDE 0113, Part 1, 06.07 / EN 60204-1:2006 / IEC 60204-1:2016, Section 13.1.1.
One conductor per clamping unit is therefore recommended to meet the safety requirements of these relevant specifications. This WAGO principle is the basis for a number of other technical and economic advantages:

- Each conductor may be terminated or removed without affecting previously connected conductors.
- Where re-wiring is required, only the conductor to be changed is removed from the clamping point, all other conductors remain safely clamped.
- Each conductor is clamped independently.
- Any conductor size combination can be connected.

WAGO rail-mount terminal blocks offer different solutions to increase the number of clamping points.
The most common way is by branching one conductor into two or three conductors. WAGO offers 3- and 4-conductor terminal blocks, making additional jumpers unnecessary.

Tests and Testing Procedures per IEC/EN Standards (continued)
Mechanical Tests (continued)

- Pull-Out Test per IEC/EN 60947-7-1, IEC/EN 60998-2-2, IEC/EN 60999-1

The pull-out test simulates the mechanical stress on the clamping unit when, for example, the installer pushes the conductor aside to better access/operate the adjacent clamping unit, or verifies if the conductor is connected properly by briefly pulling on it.
During the test, a pulling force is applied without jerking, for one minute, to the connected conductor. The pulling force is selected according to the cross-sectional area. The larger the cross section of the conductor, the higher the pull-out force that is selected. For example, the pulling force is 40 N for a conductor having a cross section of 1.5 mm² (16 AWG) and 100 N for a conductor with a cross section of 16 mm² (6 AWG). The values specified by these standards are the same for both screw clamp and spring clamp terminal blocks. During the test, the conductor must neither slip out of the clamping unit, nor break near the clamping unit.

Conductor Pull-Out Forces
The clamping units of screwless terminal blocks must withstand the pull-out forces as follows:
IEC 60947-1/EN 60947-1/VDE 0660-100, Table 5:
Low-voltage switchgear and controlgear, General rules

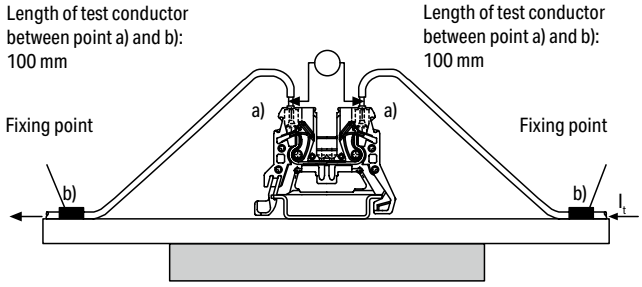
IEC 60947-7-1/EN 60947-7-1/
VDE 0611-1, Rail-mount terminal blocks for copper conductors

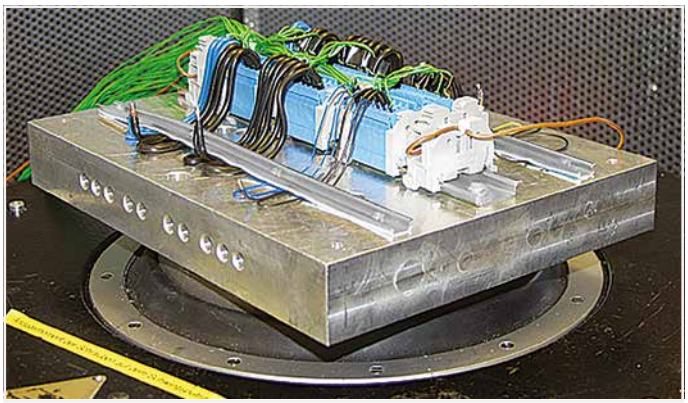
IEC 60998-2-1/EN 60998-2-1/
VDE 0613-2-1, Table 104:
IEC 60998-2-2/ EN 60998-2-2
VDE 0613-2-2, Table 103:
Connecting devices for low-voltage circuits for household and similar purposes
Particular requirements for connecting devices as separate entities with screw-clamp or screwless terminal blocks.
IEC 60999-1/EN 60999-1/VDE 0609-1, Table 3:
IEC 60999-2/EN 60999-2/VDE 0609-101, Table 2:
Safety requirements for screw-clamp and screwless clamping units for electrical copper conductors

Rated Cross-Section		Pull-Out Forces per IEC/EN		
		60947-7-1	60998-2-2	60999-1/-2
mm²	AWG/kcmil	N	N	N
0.2 0.34	24 22	10 15	10 15	10 15
0.5 0.75	20 18	20 30	20 30	20 30
1 1.5	– 16	35 40	35 40	35 40
2.5 4	14 12	50 60	50 60	50 60
6 10	10 8	80 90	80 90	80 90
16 25	6 4	100 135	100 135	100 135
– 35	3 2	156 190	190	190
– 50	1 1/0	236 236		236
70 95	2/0 3/0	285 351		285 351
– 120	4/0 250	427 427		427 427
150 185	300 350	427 503		427 503
– 240	400 500	503 578		503 578
300	600	578		578

- Shock Test per IEC/EN 60068-2-27; IEC/EN 61373 (Railway Applications)

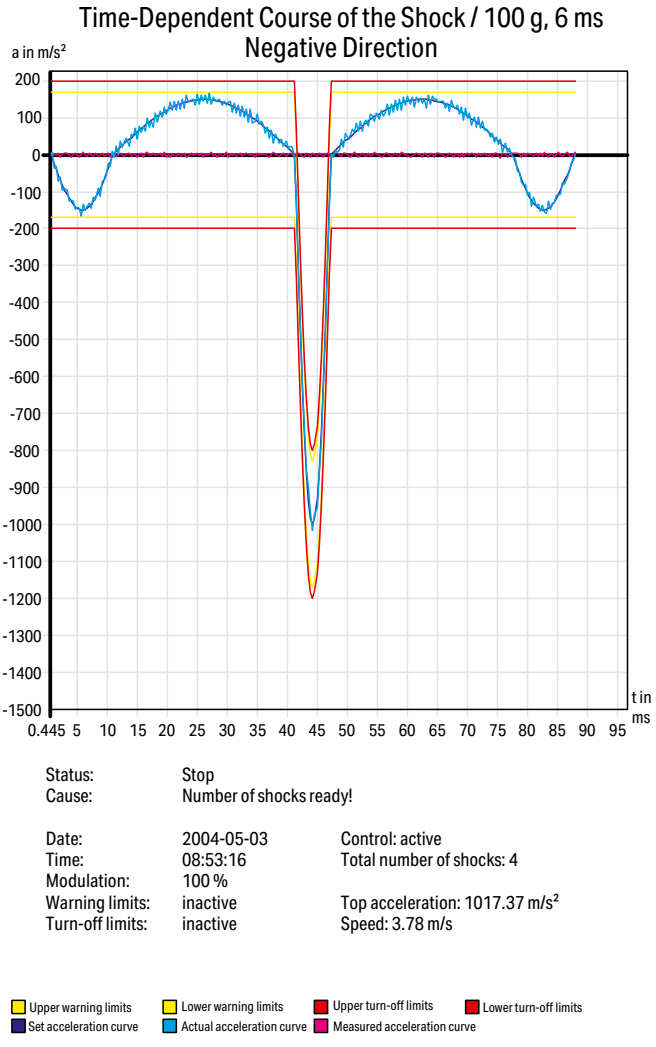
The shock test is similar to the vibration test except that, instead of continuous vibrations, single shocks are applied to the specimen. Shock tests are usually performed with an acceleration of 20g, for example, over a period of 11 ms. Tests for special requirements often call for much higher values.
Like the vibration tests, shock tests are primarily used to test the voltage drop variation or contact breaks, etc.

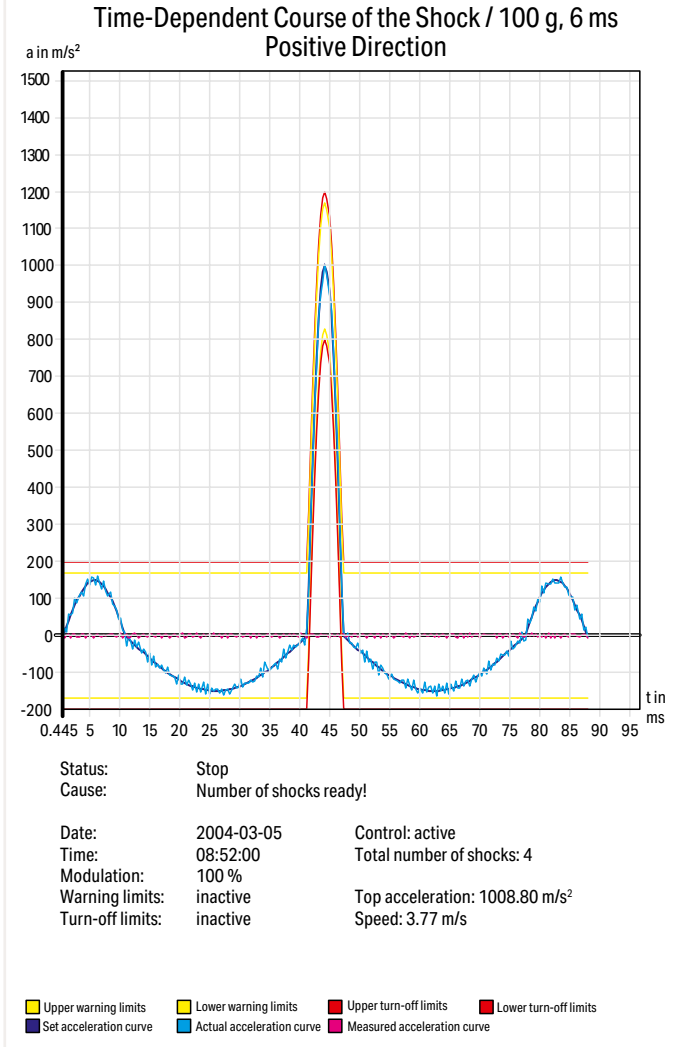




Example: Shock requirement

per IEC/EN 60068-2-27 (half-sine shock)
100g acceleration, 6 ms duration
Shock direction: 3 axes (3 shocks each in positive and negative direction)





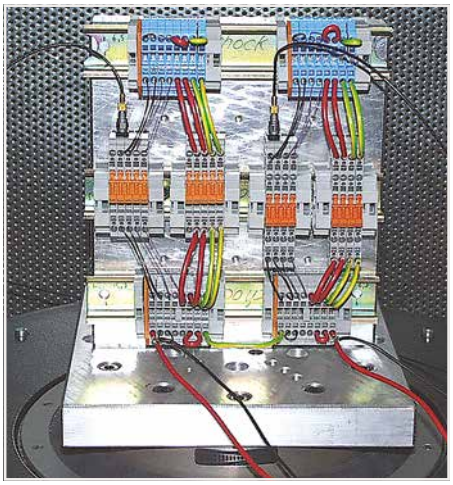
Tests and Testing Procedures per IEC/EN Standards (continued)
Mechanical Tests

- Vibration Test per IEC/EN 60068-2-6; DNV GL, LR (Marine Applications); EN 61373 (Railway Applications)

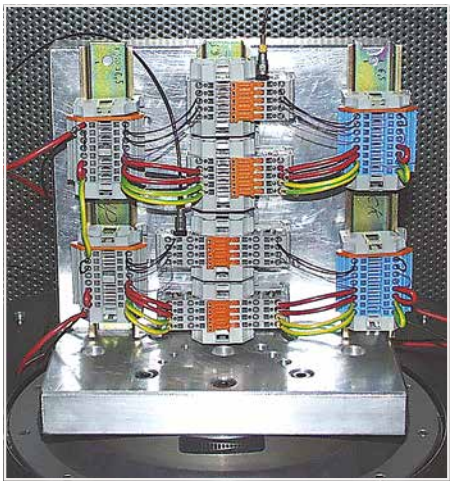
The vibration test determines whether vibrations, such as those produced in the vicinity of machines or in vehicles, will permanently affect the electrical connection, or if contact breaks will occur during vibrations. Using a vibration table, the test specimen is subjected to vibration in each of the X, Y and Z axes (see pictures).
The amplitude, acceleration and, in particular, the frequency of the vibration must vary during the test.

In a common test procedure, for example, a wide frequency band is continuously run up to 2000 Hz, at different accelerations up to 20g and different amplitudes up to 20 mm. Test duration is 90 minutes per axis.

Other test types are performed using a single fixed frequency. The exact test procedure may vary considerably, depending on how the product will be used. Some test specifications require the determination of possible resonant frequencies, i.e., determining if resonance occurs within the frequency spectrum to be passed through. Analyzing the specimen behavior under the influence of resonant frequencies is performed using a special testing procedure.



Beyond these standard procedures, each market segment performs additional testing. Examples include railway authorities testing rolling electrical equipment, or the testing performed multiple marine agencies (e.g., DNV GL Group, Lloyd's Register of Shipping). Though the requirements of such testing procedures are particularly demanding, test arrangements are identical for all of them. During vibrations, possible contact breaks are monitored on an oscilloscope. Voltage drop is measured before and after the test to detect permanent failures, i.e., checking if electrical resistance at the clamping unit has not increased beyond the permissible limit. The smaller this value is, the smaller the contact resistance of the clamping unit.

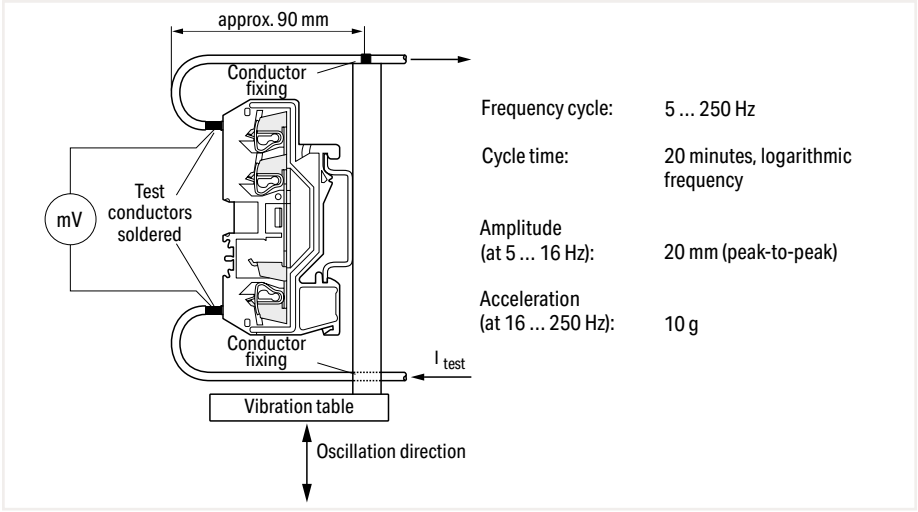


The test is passed if:
- the conductor has neither slipped out of the terminal block nor been damaged
- the maximum permissible voltage drop has not been exceeded
- and neither contact breaks have occurred nor a defined break time has been exceeded.

The test specimen must not be damaged in any way that might affect future use.

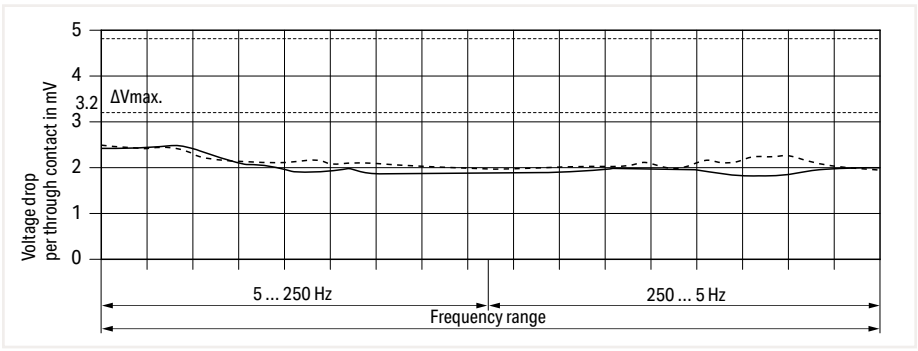
Since their inception, both CAGE CLAMP® and Push-in CAGE CLAMP® connections have been routinely tested for their resistance to vibration in connection with approval tests.

Additionally, WAGO conducts special self-resonance behavior tests on clamping systems, using different terminal block and conductor arrangements.
In these tests, a wide frequency band is continuously run up to 2000 Hz, at different accelerations up to 20g and different amplitudes up to 20 mm. The figure provides an example of a self-resonance vibration test configuration.



Self-resonance vibration test set-up

All WAGO spring clamp connections meet these test requirements.



Frequency cycle
Rail-mount terminal block: Item no. 280-681
Test current: 1/10 I_N = 2,4 A
---------- Test specimen no. 1
- - - - - - - - - Test specimen no. 2

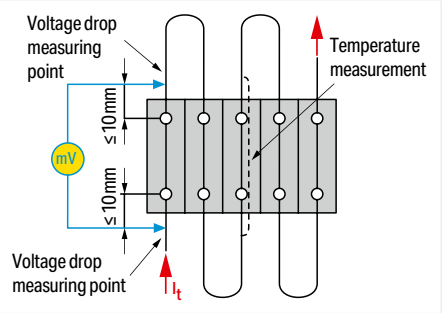
Tests and Testing Procedures per IEC/EN Standards (continued)

Electrical Tests

All WAGO products meet requirements for the following electrical tests:

- Temperature-Rise Test per IEC/EN 60947-7-1

The temperature-rise test examines the clamping unit – including the surrounding insulation – at rated current, over-current and short-circuit current levels.
Unless otherwise specified in the related equipment specification, e.g., by specifying the nominal currents of the equipment, terminal blocks and connectors are tested with current loads as specified in the respective construction specification.
For rail-mount terminal blocks complying with IEC 60947-7-1/EN 60947-7-1/VDE 0611-1, or terminal blocks complying with IEC 60998-1/EN 60998-1/ VDE 0613-1, the temperature rise must not exceed 45 Kelvin.



Test arrangement: "Temperature-Rise Test"

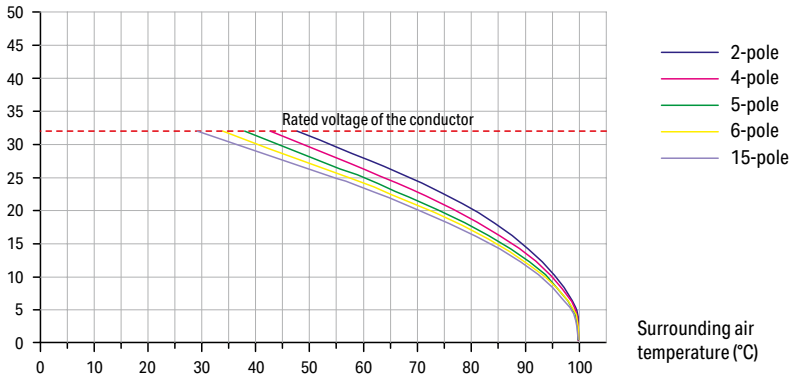
Rated Cross-Section	Test Current per IEC/EN	
	60947-7-1 Table 4	60998-1 Table 2
mm²	A	A
0.2 0.34	4 5	4 5
0.5 0.75	6 9	6 9
1 1.5	13.5 17.5	13.5 17.5
2.5 4	24 32	24 32
6 10	41 57	41 57
16 25	76 101	76 101
35 –	125	125
50 70	150 192	
95 –	232	
120 150	269 309	
185 240	353 415	
300	520	

Conductor Size	Test Current per IEC/EN
	60947-7-1 Table 5
AWG/kcmil	A
24 22	4 6
20 18	8 10
– 16	 16
14 12	22 29
10 8	38 50
6 4	67 90
2 1	121 139
1/0 2/0	162 185
3/0 4/0	217 242
250 kcmil 300 kcmil	271 309
350 kcmil 500 kcmil	353 415
600 kcmil	520

• Current-Carrying Capacity Curve per IEC/EN 60512-5-2

Both the design requirements and the current-carrying capacity of a connector must be checked by the user when selecting connectors. This data depends on the following factors: connected conductor cross section, surrounding air temperature, number of simultaneously loaded poles, connector's internal resistance, as well as PCB layout and connector materials if required. In accordance with IEC/EN 60512-5-2, the relationship between current, surrounding air temperature and temperature rise up to the connector's upper temperature limit is illustrated via current-carrying capacity curve. The connector must only be operated up to this temperature limit (sum of the self-generated heat and the surrounding air temperature) without being damaged or destroyed during operation.

Functioning of a current-carrying capacity curve per EN 60512-5-2 is shown by an application using a current-carrying capacity curve for the X-COM®-SYSTEM:
This application requires each pole of a 4-pole connector be subjected to a load of 32 A. Based on the basic curve determined for this pole number with a conductor cross section of 4 mm², it has been determined the maximum surrounding air temperature is 42°C (107.6°F). The current must be reduced at higher surrounding air temperatures, e.g., to 19 A at an surrounding air temperature of 80°C (176°F).



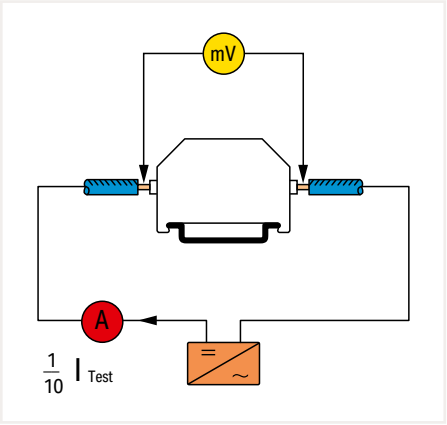
1-conductor/1-pin carrier terminal block (769-176)
Conductor cross section: 4 mm² (12 AWG)

1-conductor female plugs (769-102 to 769-115)
Conductor cross section: 4 mm² (12 AWG)
Conductor loop length: 1 m

Tests and Testing Procedures per IEC/EN Standards (continued)
Electrical Tests (continued)

- Voltage Drop Test per IEC/EN 60947-7-1

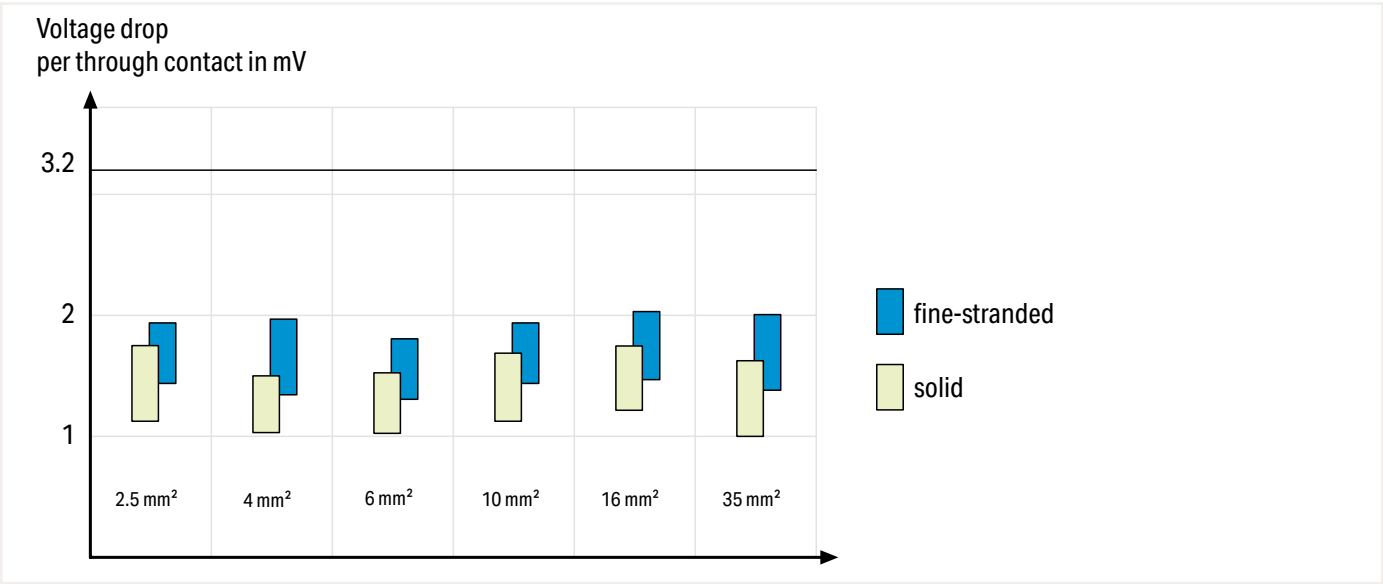
The voltage drop test evaluates clamping point quality under stress such as vibration, temperature change, industrial climate and salt spray, in order to verify that the contact point is gas-tight.



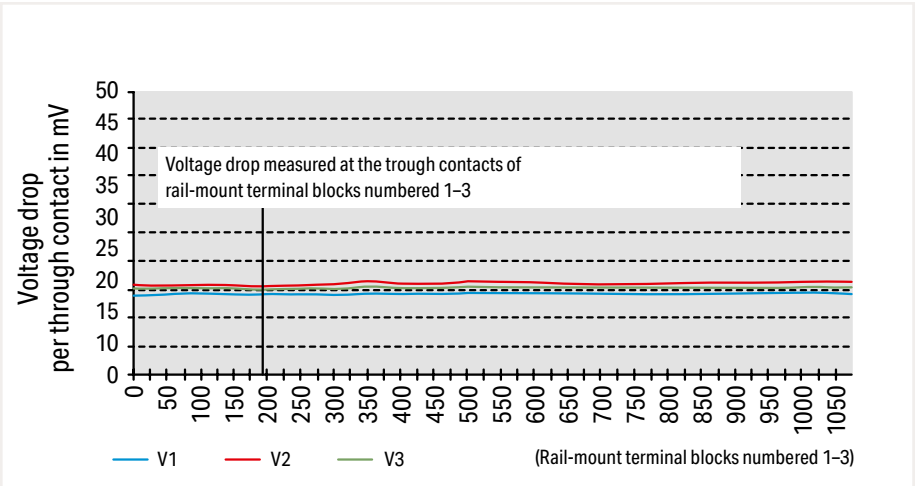
Test arrangement: "Voltage Drop Test"

The CAGE CLAMP® and Push-in CAGE CLAMP® connections enclose and contain fine-stranded conductors. Therefore, a variation of the voltage drop with solid and fine-stranded conductors is so small that its influence may be negligible for the practical application of the terminal blocks.

Typical voltage drop variations for solid and fine-stranded conductors of 280 to 285 Series CAGE CLAMP® Rail-Mount terminal Blocks:



Example: Current load cycling test result for rail-mount terminal blocks (item no. 285-195) using 95 mm² (4/0 AWG) fine-stranded copper conductors:

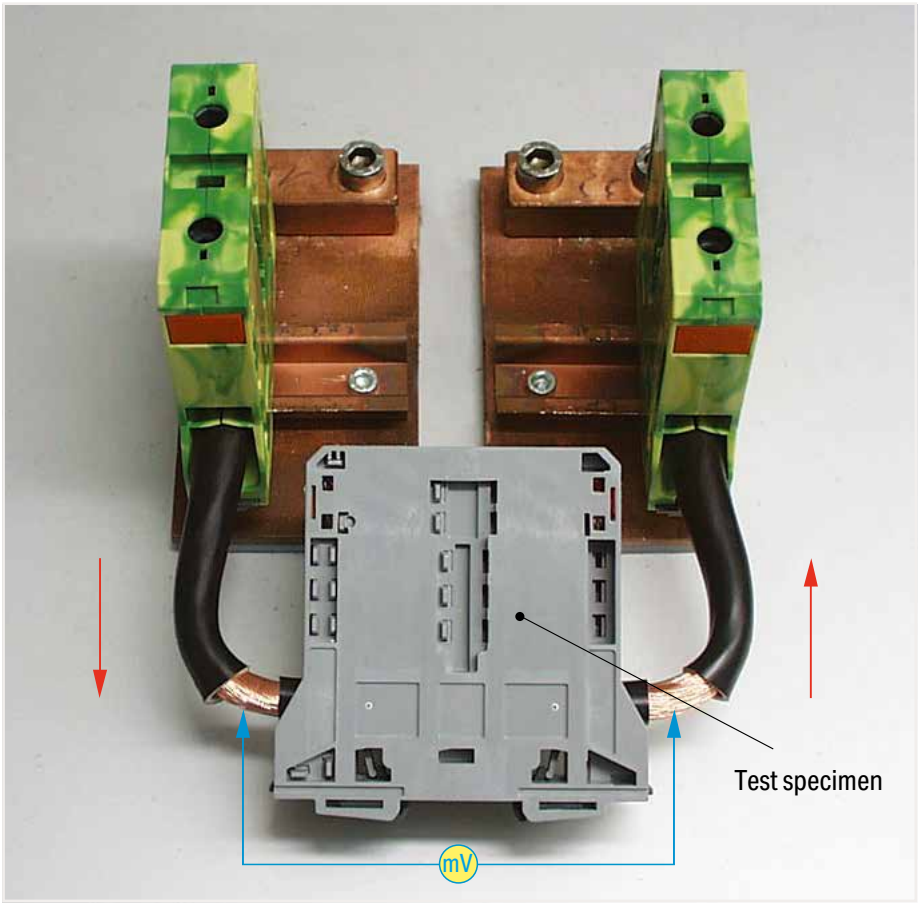


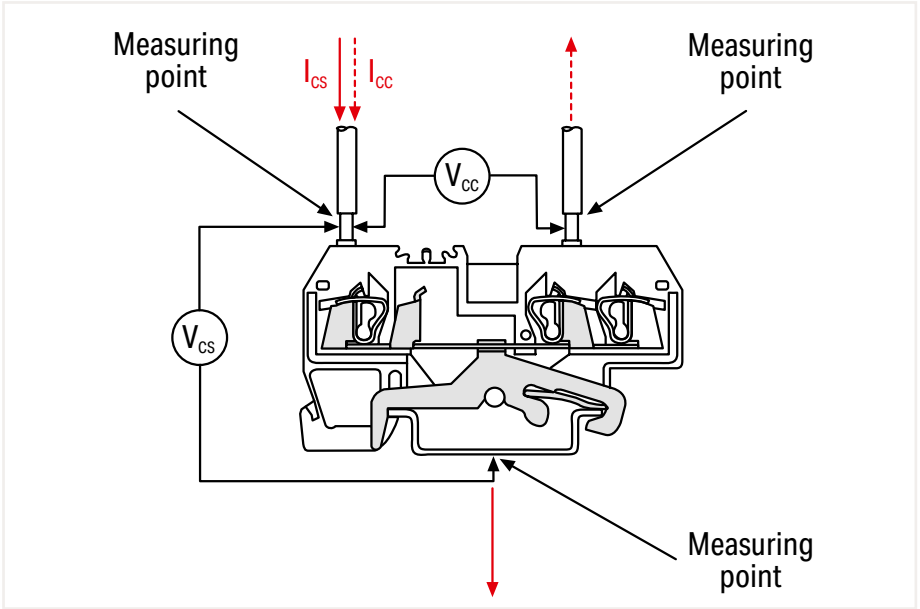
Voltage drop variation over longer periods under current load cycling conditions is shown for WAGO 285-195 (95 mm²/4/0 AWG) Rail-Mount Terminal Blocks using solid copper conductors. The diagram shows that the voltage drop is constant, far beyond the 192 cycles required in IEC 60947-7-1.

(The voltage drop was determined at the rated current.)

- Short-Time Withstand Current Test (Short-Circuit Withstand Capacity) per IEC/EN 60947-7-1

Apart from the rated current that can be constantly applied to an electrical device, operation-related short peak currents consistently occur in electrical installations, e.g., when motors are started. Also, in the event of a short circuit, a high current can flow for a short time until the fuse element melts. Terminal blocks and connecting devices must be able to withstand such conditions. For example, in the short-time withstand current test per IEC/EN 60947-7-1, a through rail-mount terminal blocks must be capable of withstanding for one second the rated short-time withstand current which corresponds to 120 A/mm² of its nominal cross section.





During the short-time withstand current test, the ground conductor rail-mount terminal blocks are subjected three times for one second each to a current load of 120 A/mm². The pass criterion for the test is the voltage drop (limiting value and constant measured values).

Tests and Testing Procedures per IEC/EN Standards (continued)
Electrical Tests (continued)

• Insulation Parameters per IEC/EN 60664-1

Clearances and Creepage Distances
The following generally applies:
The equipment specification contains data for the measurement of clearances and creepage distances, or refers to the data contained in the new revised edition of the basic standard DIN EN 60664-1/VDE 0110-1. This standard contains new clearances and creepage distances in compliance with insulation coordination requirements. That is, the insulation parameters of equipment are assigned to:
- the anticipated surge voltages
- the parameters of the protection device against impulse voltage
- the anticipated environmental conditions and the protection measures against pollution.

This standard is based on IEC 60604-1.

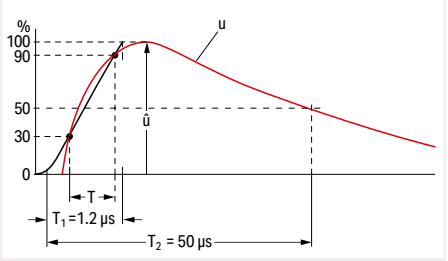
Overvoltage Categories for Electrical Equipment:
A specific overvoltage category must be defined on the basis of the following, general description:
- Equipment in **overvoltage category I** is intended to be connected to the fixed electrical installations of buildings. Protective means are taken outside the equipment – either in the fixed installation or between the fixed installation and the equipment – to limit transient overvoltages to the specific level.
- Equipment in **overvoltage category II** is to be connected to the fixed electrical installations of buildings.
  Note: Examples of such equipment are household appliances, portable tools and similar loads.
- Equipment in **overvoltage category III** is part of the fixed electrical installations and other equipment where a higher degree of availability is expected.
  Note: Examples of such equipment are distribution boards, circuit breakers, wiring systems (IEV 826-16-08, including cables, bus bars, junction boxes, switches, socket outlets) in the fixed installation and equipment for industrial use and other equipment, e.g., stationary motors with permanent connection to the fixed installation.
- Equipment in **overvoltage category IV** is for use in or near the feed-in of electrical building installations upstream of the main distribution board in the direction of the network.
  Note: Examples include electricity meters, primary overcurrent protection devices and ripple control units.

Clearances, Rated Surge Voltages, Overvoltage Categories, Pollution Degrees

Surge voltages (Table 1) are a decisive factor in determining clearances.

The basis forms the **overvoltage category**, i.e., the allocation of the equipment to the expected overvoltage, and the **conductor-ground voltage** derived from the nominal mains voltage in installations with a grounded Y (star) point.

In ungrounded installations, or installations where the conductor is not grounded, the voltage between conductors is applicable in the same way as conductor voltage to ground.



Voltage pulse: 1.2/50 µs per EN 60060-1/VDE 0432-1

The rated surge voltage must be selected from Table F.1 corresponding to the overvoltage category specified and to the rated voltage of the equipment.
Table F.1 – Rated Surge Voltage for Equipment Energized Directly from the Low-Voltage Mains (DIN EN 60664-1/VDE 0110-1)
Voltage Curve: 1.2/50 µs per IEC 60060-1/VDE 0432-1

Nominal voltage of the power supply system[1] (mains) per IEC 60038[3]		Conductor-to-neutral voltage, derived from the nominal AC or DC voltage up to and including:	Rated surge voltage[2] Overvoltage category[4]			
Three-phase V	Single-phase V	V	I V	II V	III V	IV V
		50	330	500	800	1500
		100	500	800	1500	2500
	120 … 240	150[5]	800	1500	2500	4000
230 / 400 277 / 480		300	1500	2500	4000	6000
400 690		600	2500	4000	6000	8000
1000		1000	4000	6000	8000	12000

[1] See Annex B for application to existing different low-voltage mains and their nominal voltages.
[2] Equipment with these rated impulse voltage levels can be used in installations complying with IEC 60364-4-443.
[3] The / mark indicates a 3-phase, 4-conductor system. The lower value is the conductor-to-neutral voltage, while the higher value is the conductor-to-conductor voltage. Where only one value is indicated, it refers to 3-phase, 3-conductor systems and specifies the conductor-to-conductor voltage.
[4] See 4.3.3.2.2 for an explanation of the overvoltage categories.
[5] The nominal voltages for single-phase systems in Japan are 100 V or 100 … 200 V. The value for the rated impulse voltage is, however, derived from the voltage gaps conductor-to-neutral for a voltage level of 150 V (see Annex B).

The nominal supply voltage and the corresponding rated impulse voltage values apply for grounded and ungrounded circuits.

Pollution Degrees

Pollution factors are all solid, liquid or gaseous foreign matter which may reduce the dielectric strength or the specific surface resistance. Factors are divided into four classes based on expected environmental conditions:

		Examples of pollution degrees for assigned areas:
Pollution degree 1:	No pollution, or only dry, non-conductive pollution occurs. Pollution has no influence.	Open, unprotected insulated equipment in air-conditioned or clean, dry rooms
Pollution degree 2:	Only non-conductive pollution occurs. Occasional, temporary conductivity caused by condensation can also be expected.	Open, unprotected insulated equipment in occupied areas, shops, laboratories, mechanical workshops and medical rooms.
Pollution degree 3:	Conductive pollution occurs, or dry, non-conductive pollution occurs which will become conductive due to condensation.	Open, unprotected insulated equipment in industrial, business and farming areas (e.g., unheated rooms, workshops and boiler rooms)
Pollution degree 4:	The pollution generates persistent conductivity caused by conductive dust, rain or wet conditions.	Open, unprotected insulated equipment for outdoor use

Dimensioning Clearances (DIN EN 60664-1/VDE 0110-1, Table F.2)

Select the minimum clearances in accordance with the rated surge voltages and pollution degrees. To maximize the operating life of the equipment, do not go below these minimum clearances.
Table F.2 contains a list of information for Case A, the inhomogeneous field and for Case B, the homogeneous field.
This involves an electric field with essentially constant (Case B) or non-constant (Case A) voltage gradients between the electrodes.
Equipment with a clearance that is dimensioned per Case A, in other words rated for the most unfavorable case, requires no verification by the impulse voltage test.
Equipment with a clearance that is dimensioned per Case B, or between A and B, requires verification by the impulse voltage test.

The clearances shown in Table F.2 are applicable for an installation height of up to 2000 m above sea level.

Values for clearances above 2000 m must be multiplied by a high correction factor in accordance with Table A.2.

Table F.2 – Clearances to Withstand Transient Overvoltages

DIN EN 60664-1/VDE 0110-1

Required Impulse Withstand Voltage[1)5)]	Minimum Clearances in Air up to 2000 m Above Sea Level					
	Case A Inhomogeneous Field (see 3.15)			Case B Homogeneous Field (see 3.14)		
	Pollution Degree[6]			Pollution Degree[6]		
	1	2	3	1	2	3
kV	mm	mm	mm	mm	mm	mm
0.33[2)]	0.01	0.2[3)4)]	0.8[4)]	0.01	0.2[3)4)]	0.8[4)]
0.4	0.02			0.02		
0.5[2)]	0.04			0.04		
0.6	0.06			0.06		
0.8[2)]	0.10			0.10		
1	0.15			0.15		
1.2	0.25	0.25		0.2		
1.5[2)]	0.5	0.5		0.3	0.3	
2	1	1	1	0.45	0.45	
2.5[2)]	1.5	1.5	1.5	0.6	0.6	
3	2	2	2	0.8	0.8	
4[2)]	3	3	3	1.2	1.2	1.2
5	4	4	4	1.5	1.5	1.5
6[2)]	5.5	5.5	5.5	2	2	2
8[2)]	8	8	8	3	3	3
10	11	11	11	3.5	3.5	3.5
12[2)]	14	14	14	4.5	4.5	4.5
15	18	18	18	5.5	5.5	5.5
20	25	25	25	8	8	8
25	33	33	33	10	10	10
30	40	40	40	12.5	12.5	12.5
40	60	60	60	17	17	17
50	75	75	75	22	22	22
60	90	90	90	27	27	27
80	130	130	130	35	35	35
100	170	170	170	45	45	45

[1)] This voltage is for:
- Functional insulation: the maximum impulse voltage expected to occur across the clearance (see 5.1.5)
- Basic insulation directly exposed to or significantly influenced by transient overvoltages from the low-voltage mains (see 4.3.3.3, 4.3.3.4.1 and 5.1.6): the rated impulse voltage for the equipment;
- Other basic insulation (see 4.3.3.4.2): the highest impulse voltage that can occur in the circuit
For reinforced insulation, see 5.1.6.

[2)] Preferred values specified in 4.2.3

[3)] For printed wiring material, the values for pollution degree 1 apply, except that the value must not be less than 0.04 mm, as specified in Table F.4.

[4)] The minimum clearances given for pollution degree 2 and 3 are based on the reduced withstand characteristics of the associated creepage distance under humidity conditions (see IEC 60664-5).

[5)] For parts or circuit within equipment subject to surge voltages based on 4.3.3.4.2, interpolation of values is allowed. However, standardization is achieved by using the preferred series of impulse voltage values based on 4.2.3.

[6)] The dimensions for pollution degree 4 are as specified for pollution degree 3, except that the minimum clearance is 1.6 mm.

Tests and Testing Procedures per IEC/EN Standards (continued)
Electrical Tests (continued)

• Insulation Parameters per IEC/EN 60664-1 (continued)

Creepage Distances, Rated Voltages, Material Groups

Criteria for dimensioning creepage distances are the rated voltages, pollution degrees and material groups.
The pollution degrees specified for the clearances, and its quoted allocation to locations, is also applicable for creepage distances.
Tables F.3 a and F.3 b of DIN EN 60664-1/ VDE 0110-1 contain the rated voltages that have to be considered for dimensioning the minimum creepage distances.

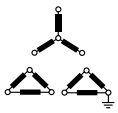
Table F.3a – Single-Phase, 3- or 2-Conductor, AC or DC Systems

Nominal Voltage of the Power Supply System (Mains)*	Voltages for Table F.4	
	For insulation conductor-to-conductor[1)]	For insulation conductor-to-ground[1)]
	All systems	Three-conductor systems, center-point grounded
V	V	V
12.5	12.5	
24 25	25	
30	32	
42 48 50**	50	
60	63	
30 to 60	63	32
100**	100	
110 120	125	
150**	160	
200	200	
110 to 200	200	100
220	250	
110 to 220 120 to 240	250	
300**	320	
220 to 440	500	250
600**	630	
480 to 960	1000	500
1000**	1000	

[1)] Conductor-to-ground insulation level for non-grounded or impedance-grounded systems equals that for conductor-to-conductor, as the operating voltage to ground of any conductor can, in practice, approach full conductor-to-conductor voltage. This is because the actual voltage to ground is determined by the insulation resistance and capacitive reactance of each conductor to ground; thus, low (but acceptable) insulation resistance of one conductor can in effect ground it and raise the other two to full conductor-to-conductor voltage to ground.
*For the relationship to rated voltage, see 4.3.2.
**These values correspond to the values given in Table F.1.

Altitude m	Standard Air Pressure (in kPa)	Multiplier for Clearances
2000	80	1
3000	70	1.14
4000	62	1.29
5000	54	1.48
6000	47	1.7
7000	41	1.95
8000	35.5	2.25
9000	30.5	2.62
10000	26.5	3.02
15000	12	6.67
20000	5.5	14.5

Table F.3b – Single-Phase, 4- or 3-Conductor AC Systems

Nominal Voltage of the Power Supply System (Mains)*	Voltages for Table F.4		
	For insulation conductor-to-conductor[1]	For insulation conductor-to-ground[1]	
	All systems	Three-phase, 4-conductor systems with grounded neutral conductor[2]	Three-phase, 3-conductor systems, non-grounded[1] or grounded conductor
			
V	V	V	V
60	63	32	63
110 120 127	125	80	125
150**	160		160
200	200		200
208	200	125	200
220 230 240	250	160	250
300**	320		320
380 400 415	400	250	400
440	500	250	500
480 500	500	320	500
575	630	400	630
600**	630		630
660 690	630	400	630
720 830	800	500	800
960	1000	630	1000
1000**	1000		1000

[1] Conductor-to-ground insulation level for non-grounded or impedance-grounded systems equals that for conductor-to-conductor, as the operating voltage to ground of any conductor can, in practice, approach full conductor-to-conductor voltage. This is because the actual voltage to ground is determined by the insulation resistance and capacitive reactance of each conductor to ground; thus, low (but acceptable) insulation resistance of one conductor can in effect ground it and raise the other two to full conductor-to-conductor voltage to ground.
[2] For equipment used on both three-phase, 4-conductor and three-phase, 3-conductor systems, grounded and non-grounded, use only the values for 3-conductor systems.
*For the relationship to rated voltage, see 4.3.2.
**These values correspond to the values given in Table F.1.

Material Groups

Insulation materials are classified into four groups according to their Comparative Tracking Index (CTI) as follows:

Material Group I: 600 ≤ CTI
Material Group II: 400 ≤ CTI < 600
Material Group IIIa: 175 ≤ CTI < 400
Material Group IIIb: 100 ≤ CTI < 175

The CTI values above refer to values obtained in accordance with DIN EN 60664-1/VDE 0110-1 on samples specially made for this purpose and tested with Solution A.

Tests and Testing Procedures per IEC/EN Standards (continued)
Electrical Tests (continued)

- Insulation Parameters per IEC/EN 60664-1 (continued)

Table F.4 – Creepage Distances to Avoid Failure due to Tracking
DIN EN 60664-1/VDE 0110-1

Voltage[1] (RMS)	Minimum Creepage Distances								
	Printed Circuits		Pollution Degree						
	Pollution Degree								
	1 All Material Groups	2 All Material Groups except IIIb	1 All Material Groups	2 Material Group I	2 Material Group II	2 Material Group III	3 Material Group I	3 Material Group II	3 Material Group III[2]
V	mm	mm	mm	mm	mm	mm	mm	mm	mm
10	0.025	0.04	0.08	0.4	0.4	0.4	1	1	1
12.5	0.025	0.04	0.09	0.42	0.42	0.42	1.05	1.05	1.05
16	0.025	0.04	0.1	0.45	0.45	0.45	1.1	1.1	1.1
20	0.025	0.04	0.11	0.48	0.48	0.48	1.2	1.2	1.2
25	0.025	0.04	0.125	0.50	0.5	0.5	1.25	1.25	1.25
32	0.025	0.04	0.14	0.53	0.53	0.53	1.3	1.3	1.3
40	0.025	0.04	0.16	0.56	0.8	1.1	1.4	1.6	1.8
50	0.025	0.04	0.18	0.6	0.85	1.2	1.5	1.7	1.9
63	0.04	0.063	0.2	0.63	0.9	1.25	1.6	1.8	2
80	0.063	0.1	0.22	0.67	0.95	1.3	1.7	1.9	2.1
100	0.1	0.16	0.25	0.71	1	1.4	1.8	2	2.2
125	0.16	0.25	0.28	0.75	1.05	1.5	1.9	2.1	2.4
160	0.25	0.4	0.32	0.8	1.1	1.6	2	2.2	2.5
200	0.4	0.63	0.42	1	1.4	2	2.5	2.8	3.2
250	0.56	1	0.56	1.25	1.8	2.5	3.2	3.6	4
320	0.75	1.6	0.75	1.6	2.2	3.2	4	4.5	5
400	1	2	1	2	2.8	4	5	5.6	6.3
500	1.3	2.5	1.3	2.5	3.6	5	6.3	7.1	8 (7.9)[4]
630	1.8	3.2	1.8	3.2	4.5	6.3	8 (7.9)[4]	9 (8.4)[4]	10 (9)[4]
800	2.4	4	2.4	4	5.6	8	10 (9)[4]	11 (9.6)[4]	12.5 (10.2)[4]
1000	3.2	5	3.2	5	7.1	10	12.5 (10.2)[4]	14 (11.2)[4]	16 (12.8)[4]
1250			4.2	6.3	9.	12.5	16 (12.8)[4]	18 (14.4)[4]	20 (16)[4]
1600			5.6	8	11	16	20 (16)[4]	22 (17.6)[4]	25 (20)[4]
2000			7.5	10	14	20	25 (20)[4]	28 (22.4)[4]	32 (25.6)[4]
2500			10	12.5	18	25	32 (25.6)[4]	36 (28.8)[4]	40 (32)[4]
3200			12.5	16	22	32	40 (32)[4]	45 (36)[4]	50 (40)[4]
4000			16	20.	28	40	50 (40)[4]	56 (44.8)[4]	63 (50.4)[4]
5000			20	25	36	50	63 (50.4)[4]	71 (56.8)[4]	80 (64)[4]
6300			25	32	45	63	80 (64)[4]	90 (72)[4]	100 (80)[4]
8000			32	40	56	80	100 (80)[4]	110 (88)[4]	125 (100)[4]
10000			40	50	71	100	125 (100)[4]	140 (112)[4]	160 (128)[4]
12500			50[3]	63[3]	90[3]	125[3]			
16000			63[3]	80[3]	110[3]	160[3]			
20000			80[3]	100[3]	140[3]	200[3]			
25000			100[3]	125[3]	180[3]	250[3]			
32000			125[3]	160[3]	220[3]	320[3]			
40000			160[3]	200[3]	280[3]	400[3]			
50000			200[3]	250[3]	360[3]	500[3]			
63000			250[3]	320[3]	450[3]	600[3]			

[1] This voltage is for:
- Functional insulation; the working voltage
- Basic and supplementary insulation of the circuit energized directly from the mains (see 4.3.2.2.1): for the voltage rationalized through Table F.3a or F.3b, based on the rated voltage of the equipment, or the rated insulation voltage
- Basic and supplementary insulation of systems, equipment and internal circuits not energized directly from the mains (see 4.3.2.2.2.): the highest rms voltage which can occur in the system, equipment or internal circuit when supplied at rated voltage and under the most taxing combination of operation conditions within equipment rating

[2] Material group IIIb is not recommended for applications in pollution degree 3 above 630 V.
[3] Provisional data based on extrapolation. Technical committees who have other information based on experience may use their dimensions.
[4] The values in brackets must only be applied for reducing creepage distances if a rib is used (see 5.2.5).

The high degree of accuracy of the creepage distances given in the table does not imply that the measuring accuracy must be of the same quality.

Depending on the intended use, WAGO's terminal blocks, splicing and pluggable connectors are suitable for pollution degrees 2 or 3 and for overvoltage categories II or III.

Example:
WAGO Rail-Mount Through Terminal Blocks
per IEC 60947-7-1/
EN 60947-7-1/VDE 0611-1, these blocks have the following ratings:

800 V / 8 kV / 3

Rated voltage:	800 V
Rated surge voltage	8 kV
Pollution Degree	3
Overvoltage category	III

WAGO's connectors for household and similar mounted installations are rated per IEC 60998-1 / EN 60998-1 / VDE 0613-1, Table 3.

Example:
WAGO PUSH WIRE® Connectors for Junction Boxes
According to this standard,
these connectors are rated for:
*400 V / 4 kV / 2
*grounded circuits

Rated voltage:	400 V
Rated surge voltage	4 kV
Pollution Degree	2
Overvoltage category	II

Table 3 – Clearances and Creepage Distances
(IEC/EN 60998-1)

Rated Insulation Voltage V	Clearances/Creepage Distances mm
≤ 130	1.5
> 130 and ≤ 250	3
> 250 and ≤ 450	4
> 450 and ≤ 750	6
> 750	8

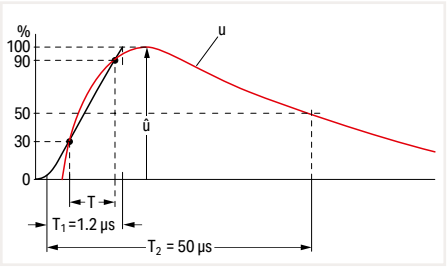
Tests and Testing Procedures per IEC/EN Standards (continued)
Electrical Tests (continued)

• Power-Frequency Withstand Voltage Test per IEC/EN 60947-7-1, IEC/EN 60947-1

This testing procedure verifies creepage distances. Creepage distances, i.e., the distances of creeping currents, are caused by conductive impurities on the surface of the insulation housing. Apart from the amount of impurities to which a terminal block is subjected, for example, the plastic material and housing design are also involved in generating creeping currents. The insulation material of the housing may be carbonized by a creeping current, which further increases conductivity.
The specimen is tested using a power-frequency withstand voltage for a short time. For example, a rail-mount terminal block designed to operate at 800 V nominal voltage is usually tested using 2000 V alternating voltage for one minute. The test is passed if no flashovers or breakdowns have occurred.

• Rated Impulse Withstand Voltage Test per IEC/EN 60947-7-1, IEC/EN 60947-1

This test verifies the clearances of a product. In simplified terms, clearance is the distance between two poles of a terminal block. If this distance is too small, voltage peaks may cause flashovers or breakdowns. The arrangement of the rated impulse withstand voltage test is identical to that of the power frequency withstand voltage test; the test voltages, however, are comparatively higher and the testing times shorter, e.g., 9.8 kV over 50 µs (see figure).



Voltage pulse: 1.2/50 µs per EN 60060-1/VDE 0432-1

Voltage pulse: measurement curve (red) and auxiliary curve (black) for calculating the rate of rise of the pulse and the resulting (virtual) peak of the curve.

T: Time interval for calculating the rate of rise
T1: Front time (duration between start of impulse and reaching the peak)
T2: Total pulse duration

The test values are the values at sea level as specified in the relevant test specification.
The values indicated in the catalog correspond to an altitude of 2000 m.
The test is passed if no flashovers or breakdowns have occurred.

• IP Ratings for Electrical Equipment per IEC/EN 60529

Alphanumeric Nomenclature for Type of Protection			
Code letters IP	Protection against accidental contact and against the penetration of foreign objects or water	IP (Ingress Protection) = International degree of protection	
First code number 0 to 6	Indicates the degree of protection against accidental contact and the penetration of foreign objects.	If indicating the degree of protection requires only one digit, the other (second) digit must be substituted for with an X.	
Second code number 0 to 8	Indicates the degree of protection against water penetration.		
First code number:		Second code number:	
IP0X	No protection against accidental contact or the penetration of foreign objects	IPX0	No protection against water
IP1X	Protection against foreign objects > 50 mm	IPX1	Protection against vertically falling water
IP2X	Protection against foreign objects > 12 mm (e.g., finger)	IPX2	Protection against diagonally dripping water (15° angle)
IP3X	Protection against foreign objects > 2.5 mm	IPX3	Protection against water spray
IP4X	Protection against foreign objects > 1 mm	IPX4	Protection against water spray
IP5X	Protection against damaging dust deposits	IPX5	Protection against water jet, e.g., from a nozzle
IP6X	Protection against dust penetration	IPX6	Protection against flooding
		IPX7	Protection against temporary immersion
		IPX8	Protection against continuous immersion
		IPX9	Protection against high-pressure and high-temperature water jets

IP vs. NEMA	
IP Code	NEMA
10	1
11	2
54	3
14	3R
54	3S
55	4&4X
52	5
67	6&6P
52	12&12K
54	13

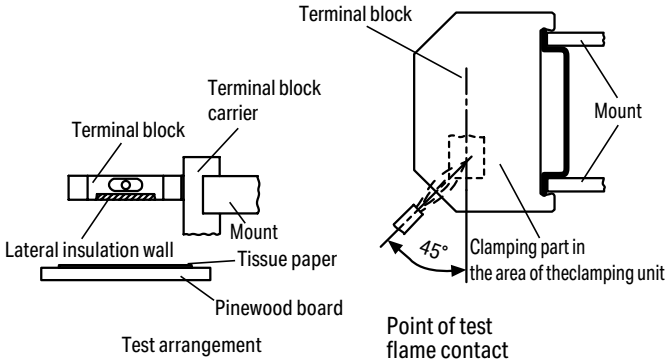
Tests and Testing Procedures per IEC/EN Standards (continued)

Material Tests

All WAGO products meet requirements for the following material tests:

• Needle Flame Test per IEC/EN 60947-7-1, IEC/EN 60695-11-5

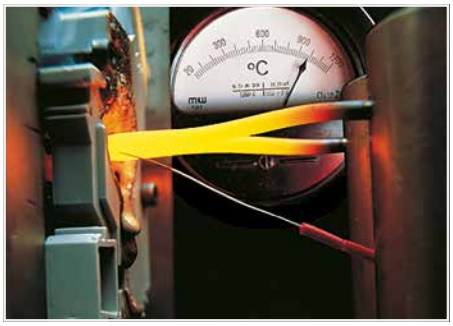
This test simulates flames that may arise under certain conditions (e.g, fault current over a creepage distance, overloading of parts or components). Nearby parts can also be affected by such flames.
Not only the ignition of the test specimen resulting from an intrinsic defect is tested, but also its behavior when other parts ignite.



Flames must not be fuelled by the insulation materials used, thus creating a larger fire. The test specimen is exposed to a standard gas flame during a defined time period (e.g., ten seconds).
After the test flame has been removed, the specimen must self-extinguish within 30 seconds. Furthermore, a layer of tissue paper located beneath the specimen must not be ignited by glowing particles falling from the specimen.

• Glow-Wire Test per IEC/EN 60998-1, IEC/EN 60695-2-11

In the event of failure, a high current may cause a conductor to glow.



However, the glowing conductor shall not cause ignition of the product involved (e.g., a rail-mount terminal block). For the glow-wire test, the tip of the glow-wire is pressed against a surface of the test specimen (see picture).
The position of the test specimen, surface to be tested, test duration and glow-wire temperature (e.g., 960°C/1760°F over 30 seconds, or 850°C/1562°F over 5 seconds) are specified in the standards.
The specimen must be positioned such that the tip of the glow-wire acts on the surface section of the specimen (vertical surface of the specimen) that is most likely to be exposed to thermal loading during normal use.

As the highest temperature in the event of a fault is anticipated at the contact insert/wire connection, the tip of the glow-wire must act upon the section of the insulation housing that is the closest to this contact point.
The test is passed if there are no visible flames or permanent glowing, or if flames or glowing extinguish within 30 seconds after removal of the glow-wire. Furthermore, a layer of tissue paper located beneath the specimen must not be ignited by glowing particles falling from the specimen.

Tests and Testing Procedures per IEC/EN Standards (continued)

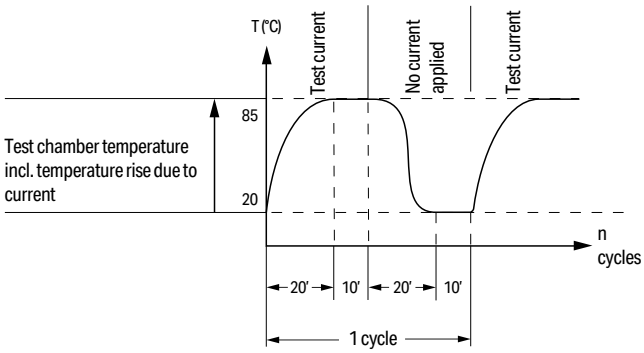
Environmental Tests

The following tests show how a product reacts when exposed to an aggressive environment. Climatic chambers simulate standard atmospheres that could impact the long-term consistency of clamping units.

All WAGO products meet the requirements of the following environmental tests:

- Temperature Cycling Test per IEC/EN 60947-7-1, IEC/EN 60998-2-2

This test shows the change of voltage drop over longer periods under temperature cycling conditions. The test procedure usually consists of 192 temperature cycles, for example, each cycle having a duration of 60 minutes (see diagram).



The rated current is applied to the test specimen during temperature rise and when the temperature has reached its maximum value; during the second half of the cycle, the current is zero. Voltage drop is measured every 24 cycles and must not exceed a maximum value or vary greatly. The voltage drop measured at the end of the 192nd cycle must not exceed 1.5 times the value measured after the 24th cycle. After the test, an inspection must show no changes that would impair further use of the product.

- Industrial Atmospheres per EN ISO 6988, IEC/EN 60068-2-42, IEC/EN 60068-2-60

Sulphur and its combustion products are particularly aggressive pollutants commonly found in industrial environments. A test procedure simulating such corrosive conditions consists of exposing a test specimen to water condensation in variable atmospheres containing sulphur dioxide.

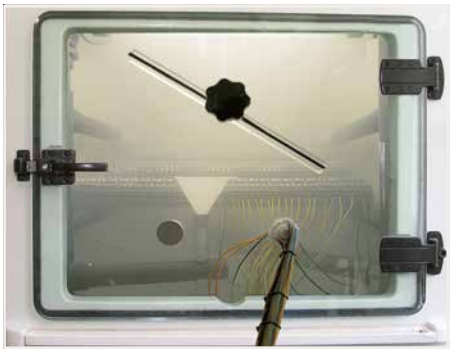
A saturated atmosphere is first created in a climatic chamber by heating an aqueous sulphur dioxide solution. After less than half an hour, the test specimen is fully saturated by the condensing vapors and exposed to this atmosphere for eight hours.

After exposure to a humid atmosphere, the test specimen is subjected to dry and cooler conditions at room temperature for 16 hours. Depending on the test severity, the specimen is exposed to both these conditions several times. The gas-tightness of the clamping unit is verified by a voltage drop test.

In other test procedures, products are exposed to a dry corrosive gas atmosphere containing sulfide, nitrogen and sulfur oxides or chloride gas. These tests can be performed over a period of four to 21 days.

• Salt Spray Test per IEC/EN 60068-2-11; DNV GL, LR (Marine Applications)

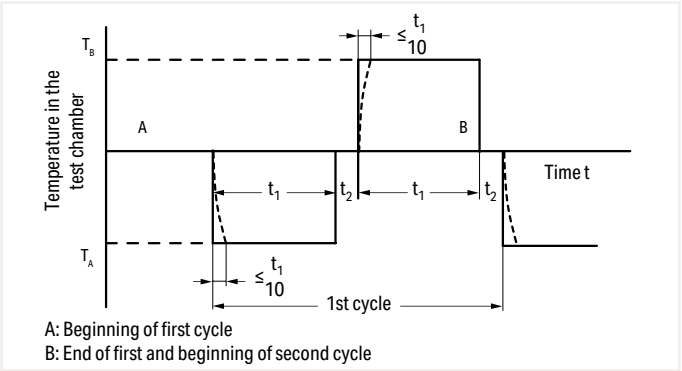
This test is similar to the test performed in atmospheres with varying water condensation, except that instead of industrial atmospheres, salt mist conditions will be simulated in a heated test chamber (see picture).



Depending on the test procedure being used, the test specimen is sprayed with salt mist for 16 hours up to 672 hours (4 weeks).
Salt spray tests are widely used, especially for marine approvals.
However, this test is performed differently than the test procedures described previously for general applications:
During a typical test, the test specimen is sprayed with a salt solution for two hours and is then stored for seven days in an atmosphere with a relative humidity between 90 and 95%.
This procedure is repeated four times.
Voltage drop measurements are used as an evaluation criterion.

• Quick Change of Temperature per IEC/EN 60068-2-14

Without air-conditioning, distribution panels and terminal boxes are exposed to seasonal (and ever-changing) temperature extremes – especially on the open field side.
In process technology, for example, a terminal block is exposed to even quicker changes in temperature.

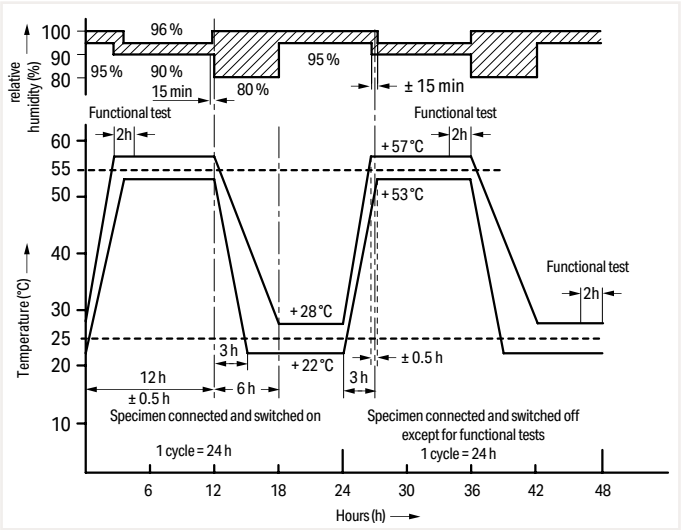


A: Beginning of first cycle
B: End of first and beginning of second cycle

To simulate such conditions, the test specimen is exposed to repeated temperature changes, for example, between TA −40°C (−104°F) and TB +70°C (+158°F).
The dwell time t1 depends on the thermal capacity of the test specimen and should be between maximum of 3 h and minimum of 10 min and the transition time t2 2 … 3 min, 20 … 30 s or less than 10 s.
The mechanical and electrical properties of the product are checked at the end of the test.

• Damp Heat, Cyclic (12 + 12 Hour Cycle) per IEC/EN 60068-2-30, DNV GL, LR (Marine Applications)

This test determines the suitability of electrical equipment for use and storage under conditions of high relative humidity when combined with cyclic temperature changes and, in general, producing condensation on the surface of the specimen.



In addition to the salt spray tests, the damp heat test is also used for marine approvals.
For this test, the specimens are subjected to temperatures varying cyclically between +25°C (+77°F) and +55°C (+131°F) with a relative humidity of 95% (for tolerances see figure).
Functional tests are performed at defined times during the storage period.
The mechanical and electrical properties of the product are checked at the end of the test.

UL Specifications – Underwriters Laboratories, USA

WAGO's terminal blocks and connectors are tested by Underwriters Laboratories Inc. according to one or more of the relevant following UL standards:

• The 273 Series PUSH WIRE® Connectors for Junction Boxes or the 224 Series Lighting Connectors are splicing wire connectors and are certified per UL 486C. These stand-alone devices carry the **UL Listing Mark** Ⓤ.	UL 486 C	Splicing wire connectors
• Rail-mount terminal blocks or modular terminal blocks (e.g., 280 Series, TOPJOB® S or 260 to 262 Series terminal blocks) are approved as non-stand-alone components per UL 1059 in connection with UL 486E.	UL 1059 UL 486 E	Standard for terminal blocks Equipment wiring terminals for use with aluminum and/or copper conductors
• The X-COM®-SYSTEM is approved as terminal blocks per UL 1059 standard in connection with UL 486 E. It is therefore defined for field and factory wiring with at 300 V.		
• It is also approved as connectors for use in data, signal, control and power applications per UL 1977 for factory wiring at 600 V (i.e., the clamping unit must be wired under controlled manufacturing conditions).	UL 1977	Component connectors for use in data, signal, control and power applications
• Ex e II terminal blocks are approved to UL 60079-7.	UL 60079-7	Electrical apparatus for explosive gas atmospheres – Part 7: Increased safety
• Ground terminal blocks are tested for grounding and bonding applications per UL 467. Components bearing the **UR Recognition Mark** are recognized product. Additionally, after being mounted in their special applications, these components are submitted to an end-product test according to the relevant device or equipment standard.	UL 467	Grounding and bonding equipment
• Insulation materials are tested for flammability and performance per UL 94.	UL 94	Tests for flammability of plastic materials for parts in devices and appliances

Tests and Testing Procedures per UL Standards

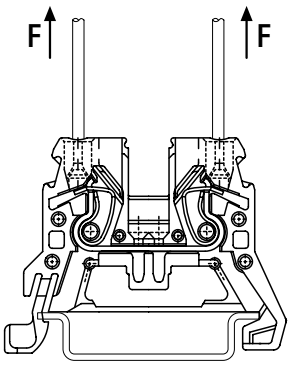
All WAGO products meet requirements for the following tests:

- Pull-Out Test per UL 1059, UL 486 E (Rail-Mount Terminal Blocks), UL 486 C (Splicing Wire Connectors)

In this test, the connected conductors are subjected to the appropriate pull-out forces specified in the following table without jerking for a period of one minute. Different test arrangements are specified for rail-mount terminal blocks and splicing wire connectors.

Conductor Size		Pull-Out Force, Pounds (N)			
		UL 486 E, Table 22			
AWG or kcmil	(mm²)	Copper		Aluminum	
30	(0.05)	0.5	(2.2)	-	-
28	(0.08)	1	(4.5)	-	-
26	(0.13)	2	(8.9)	-	-
24	(0.2)	3	(13.4)	-	-
22	(0.32)	4.5	(20)	-	-
20	(0.52)	6.75	(30)	-	-
18	(0.82)	6.75	(30)	-	-
16	(1.3)	9	(40)	-	-
14	(2.1)	11.5	(50)	-	-
12	(3.3)	13.5	(60)	10	(44)
10	(5.3)	18	(80)	10	(44)
8	(8.4)	20.5	(90)	10	(44)
6	(13.3)	21	(94)	28	(124)
4	(21.2)	30	(133)	36	(160)
3	(26.7)	35	(156)	42	(187)
2	(33.6)	42	(186)	50	(222)
1	(42.4)	53	(236)	61	(271)
1/0	(53.5)	64	(285)	72	(320)
2/0	(67.4)	64	(285)	78	(347)
3/0	(85.0)	79	(351)	97	(432)
4/0	(107)	96	(427)	116	(516)
250	(127)	96	(427)	116	(516)
300	(156)	99	(441)	116	(516)

Test Arrangement per UL 1059, UL 486 E:



Test Arrangement per UL 486 C:

During the test, the conductors must neither slip out of the clamping unit, nor break near the clamping unit.

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UL Specifications – Underwriters Laboratories, USA (continued)
Tests and Testing Procedures per UL Standards (continued)

- Heat Cycling Test per UL 1059, UL 486 E

Test performed per:

UL 1059

Test performed with maximum rated cross section

Test current: 150% of maximum rated current

84 cycles of: 3 1/2 h ON / 1/2 h OFF

The temperature rise is measured after the first and the 84th cycle.

The temperature rise must not exceed 5°C (41°F) after the 84th cycle, compared to the temperature measured after the first cycle.

UL 486 C (Splicing wire connectors)

UL 486 E (Equipment wiring terminals)

Test performed with maximum rated cross section

Test current: Increased test current per UL 486 C, Table 6 UL 486 E, Table 4

500 cycles of: 1 h ON / 1 h OFF
1 1/2 h ON / 1 1/2 h OFF
(from 4/0 AWG up to 400 kcmil per UL 486 E)

The temperature rises at the terminal blocks and control conductors are measured and recorded after: 1, 25, 50, 75, 100, 125, 175, 225, 275, 350, 425 and 500 cycles.

The temperature rise must not exceed 125°C (257°F) and the stability factor "S" must not exceed ±10.

Conductor Size		Test Current for Copper Conductors in A								
		UL 486 E, Table 4							UL 486 C, Table 6	
AWG or kcmil	(mm²)	Assigned Maximum Ampere Rating[b]	Static Heating[a,c,g]		Heat Cycling Temperature Rating[a] 75°C (167°F)[d,g]		90°C (194°F)[e,g]		Static Heating	Heat Cycling
30	(0.05)	-		3		3.5		4	3	3.5
28	(0.08)	-		3.5		4		5	3.5	4
26	(0.13)	-		5.5		6		8	5.5	6
24	(0.2)	-		7		8		10	7	8
22	(0.32)	-		9		12		13	9	12
20	(0.52)	-		12		16		17	12	16
18	(0.82)	-		17		19		24	17	19
16	(1.3)	-		18		20		31	18	20
14	(2.1)	15	[20]	30	[22]	33	[27]	40	30	33
12	(3.3)	20	[25]	35	[28]	39	[40]	54	35	38
10	(5.3)	30	[40]	50	[45]	56	[60]	75	50	56
8	(8.4)	50		70		80		100	70	80
6	(13.3)	65		95		105		131	95	105
4	(21.2)	85		125		140		175		
3	(26.7)	100		145		165		205		
2	(33.6)	115		170		190		240		
1	(42.4)	130		195		220		275		
1/0	(53.5)	150		230		255		320		
2/0	(67.4)	175		265		300		370		
3/0	(85.0)	200		310		345		435		
4/0	(107)	230		360		405		505		
250	(127)	255		405		445		565		
300	(152)	285		445		500		625		

[a] See Section 7.2, 8.2 and 9.2 (UL 486 E)
[b] Values are for 75°C (167°F), not more than 3 conductors in raceway or cable ampacities, National Electric Code, ANSI/NFPA 70.
[c] Values are for 75°C (167°F) single conductors in free air ampacities, National Electric Code, ANSI/NFPA 70.
[d] Values are approximately 112% of the static heating test currents.
[e] Values for 8 AWG and larger conductors are approximately 140% of the static heating test currents.
[f] See Section 9.2.4
[g] Values in parentheses apply to connectors with assigned ampere ratings.

- Conditioning – Temperature-Rise Rest per UL 1059, UL 486 C

Test performed per:

UL 1059 (Rail-mount terminal blocks) **UL 486 C** (Splicing wire connectors)

Conditioning:

The clamping units are **pre-wired/pre-inserted nine times** using a conductor with maximum rated cross section. At the tenth time, a new conductor is connected.
After this, a static heating test is performed.

Static Heating Test:

Test current:	Terminal block rated current	Test current:	Increased test current (see Table 6)
Test duration:	30 days	Test duration:	30 days
Max. permissible temperature rise:	30°C (86°F)	Max. permissible temperature rise:	50°C (122°F)

- Grounding and Bonding Equipment per UL 467

When used in grounding and bonding equipment, e.g., terminal blocks, must withstand a short circuit test using the test currents and test durations as specified in Table 5.

In the following example, a 2 AWG (35 mm²) ground conductor terminal block (285-635) is tested for 6 seconds at 3900 A.

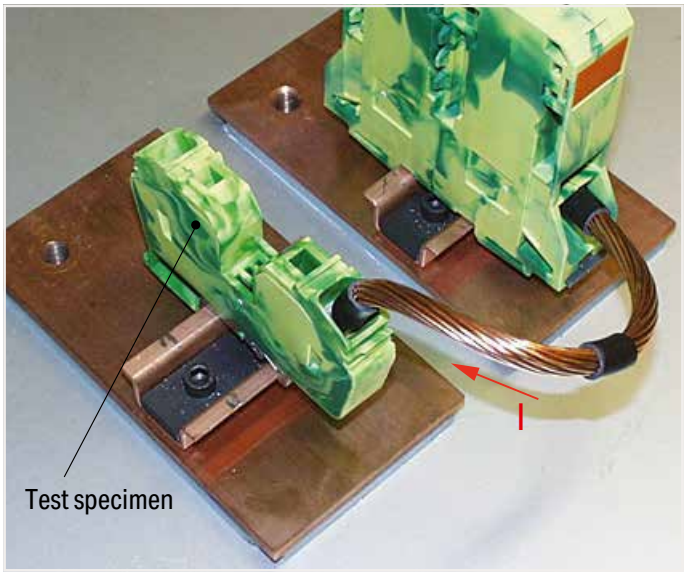


Table 5

Conductor Size Copper		Test Duration	Test Current
AWG	mm²	s	A
14	(2.1)	4	300
12	(3.3)	4	470
10	(5.3)	4	750
8	(8.4)	4	1180
6	(13.3)	6	1530
4	(21.2)	6	2450
3	(26.7)	6	3100
2	(33.6)	6	3900
1	(42.4)	6	4900
1/0	(53.5)	9	5050
2/0	(67.4)	9	6400
3/0	(85.0)	9	8030
4/0	(107)	9	10100
250 kcmil	(127)	9	12000

After the test, the specimen must neither show evidence of cracking, breaking or melting, nor any changes in electrical properties.

UL Specifications – Underwriters Laboratories, USA (continued)
Tests and Testing Procedures per UL Standards (continued)

• Insulation Parameters per UL 1059

The table below shows the potential involved and the corresponding clearances and creepage distances required in different applications.

Table 8.1 – Minimum Acceptable Spacing for Terminal Blocks per UL 1059 Standard

		Spacing in inches (mm) between uninsulated live parts of opposite polarity, uninsulated live parts and uninsulated grounded parts other than the enclosure	
Application:	Potential Involved in Volts	Through Air	Over Surfaces
A. Dead-front switchboards, panelboards, service equipment and similar applications	51 … 150 151 … 300 301 … 600	1/2 (12.7) 3/4 (19.1) 1 (25.4)	3/4 (19.1) 1-1/4 (31.8) 2 (50.8)
B. Commercial appliances, including business equipment, electronic data processing equipment and similar applications	51 … 150 151 … 300 301 … 600	1/16[a] (1.6)[a] 3/32[a] (2.4)[a] 3/8 (9.5)	1/16[a] (1.6)[a] 3/32[a] (2.4)[a] 1/2 (12.7)
C. Industrial, general	51 … 150 151 … 300 301 … 600	1/8[a] (3.2)[a] 1/4 (6.4) 3/8 (9.5)	1/4 (6.4) 3/8 (9.5) 1/2 (12.7)
D. Industrial, devices having limited ratings[b]	51 … 300 301 … 600	1/16[a] (1.6)[a] 3/16[a] (4.8)[a]	1/8[a] (3.2)[a] 3/8 (9.5)
E. Terminal blocks rated 601 … 1500 V[c]	601 … 1000 1001 … 1500	0.55 (14.0) 0.70 (17.8)	0.85 (21.6) 1.20 (30.5)

Notes:

1 A slot, groove, or similar, 0.013 inch (0.33 mm) wide or less in the contour of the insulating material is to be disregarded.
2 Air space of 0.33 mm or less between a live part and an insulating surface is to be disregarded for the purpose of measuring over surface spacing.
[a] The spacing between terminal blocks of opposite polarity and the spacing between a terminal block and a grounded dead metal part shall not be less than 1/4 inch (6.4 mm) if short-circuiting or grounding of such terminal blocks may result from protruding wire strands.
[b] See Section 8.5 (UL 1059)
The spacing values indicated in sub-paragraph D in Table 8.1 are applicable to a terminal block for use only in or with industrial control equipment where the load on any single circuit of the terminal block does not exceed 15 A at 51 … 150 V, 10 A at 151 … 300 V, 5 A at 301 … 600 V or the maximum ampere rating, whichever is less.
[c] Applies only to terminal blocks investigated to Part II of this standard. See Section 22.1 (UL 1059).

• Flammability Test per UL 94

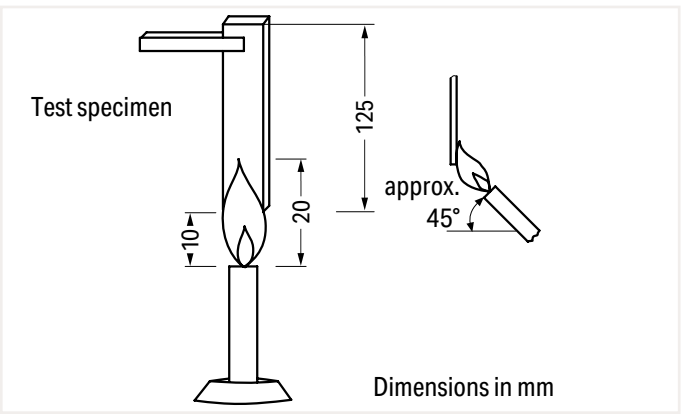
This test provides an indication of the material's ability to extinguish a flame, once ignited.
Several ratings can be applied, based on the rated of burning, time to extinguish, ability to resist dripping, and afterglow extinguishing time.
Each material tested may receive several ratings, depending on the wall thickness.

UL 94 Rating Categories:

V2
- Specimen mounted vertically
- Burning stops within 30 seconds after the flame is removed
- Flaming drips allowed
- Afterglow extinguishes within max. 60 s

V1
- Specimen mounted vertically
- Burning stops within 30 seconds after the flame is removed
- No flaming drips allowed
- Afterglow extinguishes within max. 60 s

V0
- Specimen mounted vertically
- Burning stops within 10 seconds after the flame is removed
- No flaming drips allowed
- Afterglow extinguishes within max. 30 s



During the test, a 3/4 inch (20 ±1 mm) flame is applied for two 10-second intervals to the specified bar specimen held vertically.

“Alu-Plus” Contact Paste
Terminating aluminum conductors

Terminating Aluminum Conductors
WAGO spring clamp terminal blocks are suitable for solid aluminum conductors ❶ up to 4 mm²/12 AWG if WAGO “Alu-Plus” Contact Paste is used for termination.

“Alu-Plus” Contact Paste Advantages:
- Automatically destroys the oxide film during clamping.
- Prevents fresh oxidation at the clamping point.
- Prevents electrolytic corrosion between aluminum and copper conductors (in the same terminal block).
- Provides long-term protection against corrosion.

Using terminal blocks with CAGE CLAMP® Spring Pressure Connection Technology, **aluminum conductors must first be cleaned with a blade** and then immediately be inserted into the clamping units filled with “Alu-Plus” Contact Paste.

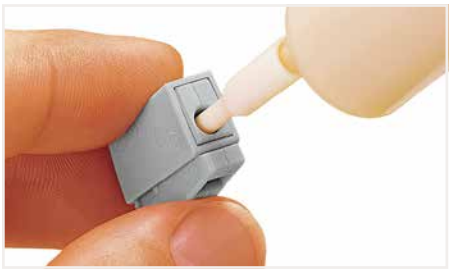
It is also possible to apply WAGO “Alu-Plus” **additionally** on the whole surface of the aluminum conductor before termination.

Please note that the nominal currents must be adapted to the reduced conductivity of the aluminum conductors:

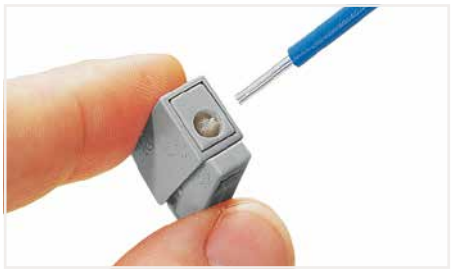
2.5 mm² (14 AWG) = 16 A
4 mm² (12 AWG) = 22 A

WAGO “Alu-Plus” in the syringe offers a higher degree of reliability and cleanliness when terminating solid aluminum conductors. Filling is quickly performed on selected WAGO connectors and terminal blocks (see pictures).

❶ Aluminum conductors per IEC 61545 standard, Class B, “Alloy 1370” with 90 … 180 N/mm² tensile strength and 1 … 4% elongation
Standard values: 90 … 180 MPa tensile strength, 1 … 4% elongation (per EN 615.4.1)



WAGO Lighting Connectors
Push nozzle of the “Alu-Plus” syringe first into the circular entry and then into the square conductor entry hole of the WAGO Lighting Connector.



Press plunger down until the “Alu-Plus” has filled both entry holes.

Note: Not suitable for higher temperature applications!

WAGO Rail-Mount Terminal Blocks (up to 4 mm²/12 AWG)
For each conductor entry: Insert nozzle of the “Alu-Plus” syringe in every open conductor entry hole (one after the other).

Press plunger down until “Alu-Plus” has filled all conductor entry holes.

Material Specifications

Insulation materials

WAGO primarily uses polyamide (PA 66 and PA 46) for housing current-conducting parts, as well as polyphthalamide (PPA) and polycarbonate (PC) for insulation material (see table). For more than 50 years, these materials have proven themselves in WAGO products and all are approved by certified, third-party agencies. All listed halogen-free and flame-retardant polymer materials do not contain any heavy metals, silicone, asbestos, or formaldehyde as formulation components.

Table: Standard Insulation Materials

Material	PA 66	PA 66 GF	PPA GF	PA 46	PC	PC
Flammability UL 94 flammability test ratings	V0	V0	V0	V2	V2	V0
Oxygen Index (OI) per EN ISO 4589-2	> 32 %	> 33 %	> 37 %	> 27 %	> 26 %	> 35 %
Glow-wire test per IEC 60695-2-12 GWFI* IEC 60695-2-13 GWIT*	850°C 775°C	850°C 775°C	850°C 775°C	750°C 725°C	800°C 850°C	960°C 850°C
Comparative Tracking Index (CTI) per IEC 60112	600 V	600 V	600 V	375 V	225 V	225 V
Temperature of the ball indentation hardness test per IEC 60695-10-2	≥ 125 °C	≥ 175 °C	≥ 225 °C	n.s.**	≥ 125 °C	≥ 125 °C
RTI impact per UL 746B	105°C	100°C	115°C	115°C	125°C	120°C
Heat deflection temperature (HDT/B) per ISO 75 (bending stress A*: 1.8 MPa; B: 0.45 MPa)	215°C	235°C	285°C	280°C	130°C (1.8 MPa)	130°C (1.8 MPa)
Surface resistivity per IEC 60093	10^{12} Ω	10^{12} Ω	10^{15} Ω	10^{13} Ω	10^{15} Ω	10^{15} Ω
Specific contact resistance per IEC 60093	10^{15} Ω/cm	10^{15} Ω/cm	10^{13} Ω/cm	10^{13} Ω/cm	10^{11} Ω/cm	10^{13} Ω/cm
Dielectric strength per IEC 60243-1	30 kV/mm	40 kV/mm	25 kV/mm	25 kV/mm	25 kV/mm	29 kV/mm

*Value depends on wall thickness, EN 60335 compliance upon request; **n. s. = not specified

Polyamide (PA 66)
WAGO uses modified, halogen-free, flame-retardant polyamides.

These materials do not corrode, are difficult to ignite and feature self-extinguishing properties (V0 rating per UL 94).

Adhering to UL 746C, the polyamides used at WAGO have a continuous operating temperature of 105°C (221°F) based on the relative temperature index with impact load (RTIimp). This ensures that the necessary electrical and mechanical insulating properties are maintained at a sufficiently guaranteed level over a long period of time.

The short-term upper temperature limit is 200°C (392°F).

In lower temperature ranges, it has been determined that no damage to the insulation material occurs during usage down to −35°C (−31°F). After installation and wiring, WAGO products can even be used at temperatures down to −60°C (−76°F).

Environmental humidity (up to 2.5% in a standard atmosphere) is absorbed, providing the polyamides with optimum elasticity, strength and durability.

In practical use, basic stabilization of WAGO's polyamides has been proven over many years to be sufficient to prevent damage caused by ozone or UV radiation exposure in intended applications.

Polyamides have excellent resilience against the most demanding climates and have proven themselves in tropical applications worldwide. Insulation parts made of polyamide are resistant to insects. The material does not provide oxygen or other biogenic elements to microorganisms.

The presence of anaerobic earth bacteria, mold, fungus and enzymes does not degrade the material.

Polyamides are resistant to most fuels, greases, and oils, as well as the most commonly used cleaners, such as alcohol, Freon, Frigen, and carbon tetrachloride. Acid resistance depends on the acid type and concentration, as well as the exposure time.

The use of insulation materials during in-house production at WAGO only occurs after acceptance of factory test certificates and specified material tests.

Glass Fiber-Reinforced Polyamide (PA 66 GF)
WAGO uses glass-fiber-reinforced polyamides for components with increased mechanical demands, such as levers, push-buttons or housings exposed to high stress, because they have significantly better mechanical characteristic properties than non-reinforced polyamides.

In general, materials are used that have excellent tracking resistance, flammability ratings and high temperature resistance.

More data can be found in the table.

Polyphthalamide (PPA GF)
Glass-fiber-reinforced, high-performance polyamides are ideal for high-temperature applications, due to the material's high level of thermal dimensional stability, its low dependence on ambient conditions and its excellent strength properties. The material's outstanding tracking resistance permits short creepage distances to be incorporated into miniature components. Fire protection equipment enables classification in flammability class V0 per UL 94 – even for extremely thin walls. PPA GF absorbs minute amounts of moisture from the atmosphere making it ideal for reflow soldering applications and for thin-walled, dimensionally stable components.

More data can be found in the table.

Polyamide (PA 46)
In comparison with PA 66, PA 46 has substantially higher dimensional stability under heat. The relative temperature index with impact load (RTIimp) is 115°C (239°F) for PA 4.6.
The permissible short-term temperature for the type used by WAGO is 280°C (536°F).

More data can be found in the table.

Polycarbonate (PC)
Polycarbonate has excellent dimensional stability under heat. The electrical and mechanical properties remain intact at extremely high temperatures up to approximately 120°C (248°F) per UL Yellow Card. Its excellent electrical insulating properties and dimensional stability are virtually independent of environmental conditions, such as humidity and temperature. Highly precise components can be created due to the low shrinkage of the material during injection molding. Polycarbonate has excellent weather resistance and is also highly resistant to high energy radiation.
If the PC is not colored, then the components are glass-clear.
Thanks to its desirable properties (e.g., dimensional stability, heat resistance, non-flammability, durability and transparency), PC is a proven and widely used material in the electrical industry.

Depending on the demands placed on the finished product, WAGO uses polycarbonates that carry flammability classifications V2 and V0 per UL 94.

Medium-viscosity PC is used that features excellent chemical resistance.

Material Specifications

Contact Materials

Hard and extra-hard electrolytic copper (ECu), as well as extra-hard copper alloys are the standard materials used for the current-carrying parts of all WAGO products.

These materials combine excellent conductivity and good chemical resistance without the risk of stress-induced cracking.

Contact Materials

The special tin layer, which is the standard layer for all current-carrying parts in WAGO products, ensures perfect long-term protection against corrosive substances. Furthermore, these layers provide a gas-tight contact that ensures a durable transition resistance.

At the clamping unit, the conductor is embedded into the soft tin layer via high contact pressure. This protects the contact area against corrosion.

The thick tin layer also ensures good solderability of both PCB terminal block and connector solder pins.

Clamping Spring Material

Every WAGO clamping spring is made of high-quality, accurately tested austenitic chrome nickel steel (CrNi) with high tensile strength, which boasts proven corrosion resistance through long-term usage.

It is resistant to sea spray, city pollutants and industrial emissions (e.g., sulfur dioxide, hydrogen sulfide).

At room temperatures of approximately 20°C (68°F), the material is resistant to salt solutions up to 30% and dilute phosphoric acids up to 30%.

Even after decades of use, no galvanic corrosion between the chrome nickel spring steel (in connection with the contact materials used by WAGO) and the connected copper conductors has been detected.

The relaxation of the material as a function of time and surrounding temperatures up to 105°C (221°F) can be ignored. Samples loaded with 500 N/mm² at a temperature of 250°C (482°F) showed a relaxation of only 1.5%.

In certain product lines, the clamping springs are thermally treated at temperatures between 350°C (662°F) and 420°C (788°F) after production.

This treatment reduces internal stress due to the material's mechanical deformation, which may result in a slight brown discoloration of the spring surface.

WAGO only accepts deliveries of chrome nickel spring steel against certificates of conformity and after select material tests have been performed.

General Technical Information on Electrical Equipment Used in Hazardous Areas

The formation of an explosive atmosphere is required for the existence of a potentially explosive hazard. Such an atmosphere can be produced at any location where flammable gases or liquids are manufactured, processed, transported and/or stored.
Such hazardous areas can be found in a wide range of industries, including chemical plants, refineries, power plants, paint production facilities, painting shops, filling stations, vehicles, sewage treatment plants, airports, grain mills or harbor facilities.

THE FOLLOWING APPLIES AS A GUIDELINE FOR THE UNDERLYING PRINCIPLE FOR EXPLOSION PROTECTION:

General Requirements
The European EN 60079-0 Standard – VDE 0170-1 Classification – contains general requirements for the design and testing of electrical equipment to be used in hazardous areas.
This ensures this equipment does not cause an explosion in the surrounding atmosphere. EN 60079-0 is supplemented or revised by the European standards indicated on the right which refer to the specifically standardized types of protection.

Electrical Equipment
Electrical equipment includes all items used in whole or in part with electricity. This includes items for generation, transport, distribution, storage, measurement, control, conversion and consumption of electrical power, as well as telecommunications.

Ex Components
Ex components are elements of electrical equipment for hazardous areas that are marked with the "U" letter. These components must not be used on their own in such areas and require an additional certificate when used in such areas when installed in the electrical equipment.

Ignition Protection Categories
Only explosion-proof (protected) equipment must be used in areas in which an explosive atmosphere may still be expected despite the implementation of prevention measures. Explosion-protected electrical equipment can have various types of protection in accordance with the EN 60079 standard requirements.
Protection used by the manufacturer essentially depends on the type and function of the apparatus. From a safety point of view, all standardized types of protection should be viewed as equal.
The ignition protection category "n" exclusively describes the use of explosion-protected electrical components in Zone 2. This zone includes areas in which hazardous, potentially explosive atmospheres are likely to occur rarely or short-term. This represents a transition between Zone 1, in which explosion protection is required, and the safe area in which, for example, welding may be performed at any time.
Regulations covering these electrical components are being prepared worldwide. Organizations such as KEMA in the Netherlands, or PTB in Germany certify that the devices meet the requirements of the EN 60079-15 standard.
Ignition protection category "n" also requires that electrical equipment be provided with additional ID markings as follows:
- nA – non-sparking
- nC – enclosed-break, hermetically sealed, non-incendive, sealed
- nR – restricted-breathing

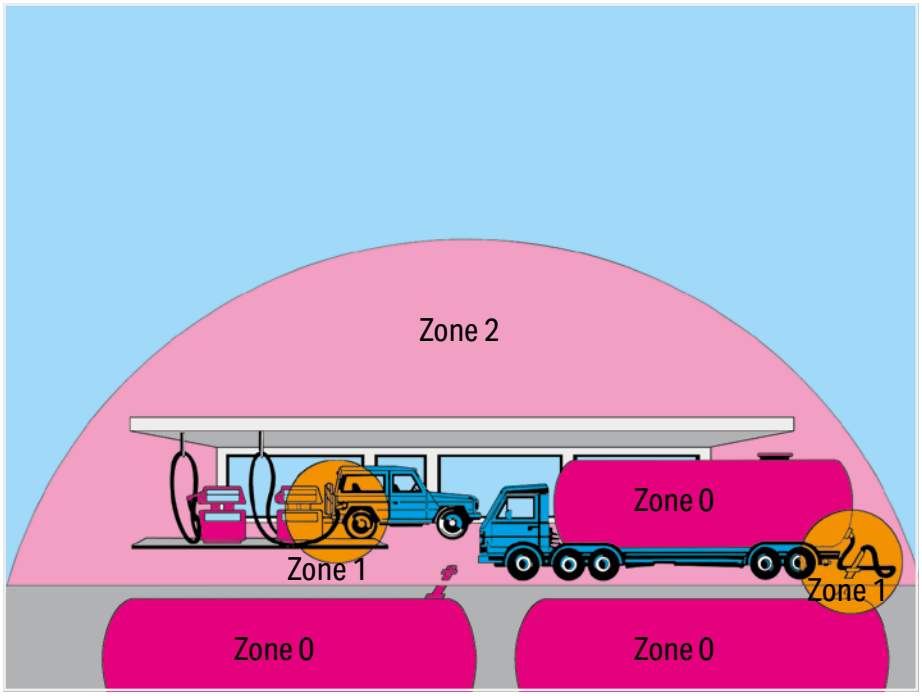
The table on the opposite page shows an overview of the standardized ignition protection categories and describes their basic principle, as well as typical applications.

General Technical Information on Electrical Equipment Used in Hazardous Areas
Continued

Ignition Protection Categories			
Symbol	Standard	Explanation	Application Area
"o"	IEC 60079-6 EN 60079-6	**Equipment protection by oil immersion:** Electrical equipment or parts of such equipment are immersed in oil.	Zones 1 + 2
"p"	IEC 60079-2 EN 60079-2	**Equipment protection by pressurized enclosure:** The ingress of the external (explosive) atmosphere into the electrical equipment housing is prevented by maintaining a protective gas internally at a pressure above that of the external atmosphere.	Zones 1 + 2
"q"	IEC 60079-5 EN 60079-5	**Equipment protection by sand filling:** Filling the electrical equipment housing with fine grain sand prevents the ignition of a surrounding explosive atmosphere by an electric arc generated in the housing.	Zones 1 + 2
"d"	IEC 60079-1 EN 60079-1	**Equipment protection by flameproof enclosures:** The parts that could ignite an explosive atmosphere are encapsulated in a housing, which will withstand the explosion pressure within the housing.	Zones 1 + 2
"eb" "ec"	IEC 60079-7 EN 60079-7	**Equipment protection by increased safety:** Additional measures applied to achieve increased security against the possibility of excessive temperatures and the occurrence of arcs or sparks.	Zones 1 + 2
"i"	IEC 60079-11 EN 60079-11	**Equipment protection by intrinsic safety:** Power circuit in which no sparks or thermal effects can occur and cause the ignition of a certain explosive atmosphere.	Zones 1 + 2 following special testing Zone 0
"nA" "nC" "nR"	IEC 60079-15 EN 60079-15	**Equipment protection by type of protection "n":** Electrical equipment of group II for use in areas in which an explosive mixture of gas, vapor or mist is unlikely to occur during normal operation and, if it does, will be for a short period.	Zone 2:
"m"	IEC 60079-18 EN 60079-18	**Equipment protection by cast encapsulation:** Dangerous electrical equipment is embedded in a cast mass. This corresponds approximately to the known special Ex s protection type.	Zones 1 + 2
	IEC 60079-25 EN 60079-25	**Intrinsically safe electrical systems "i":** Assembly of interconnected electrical equipment in which the circuits intended for use, as a whole or in part, in hazardous environments are intrinsically safe. It is documented accordingly in the system description	Zones 1 + 2 following special testing Zone 0

Harzardous Areas
Hazardous areas are zones in which the atmosphere may become explosive. An explosive atmosphere is a mixture of flammable substances in the form of gases, vapors or mixtures with air under atmospheric conditions in critically mixed ratios such that excessive high temperature, arcs or sparks may cause an explosion.

EN 60079-10-1/EN 60079-10-2 and all other well-known standards rank hazardous areas according to the likelihood of the occurrence of an explosive atmosphere into the following zones:



Hazardous areas due to explosive gases, vapors and mists:

Zone 0

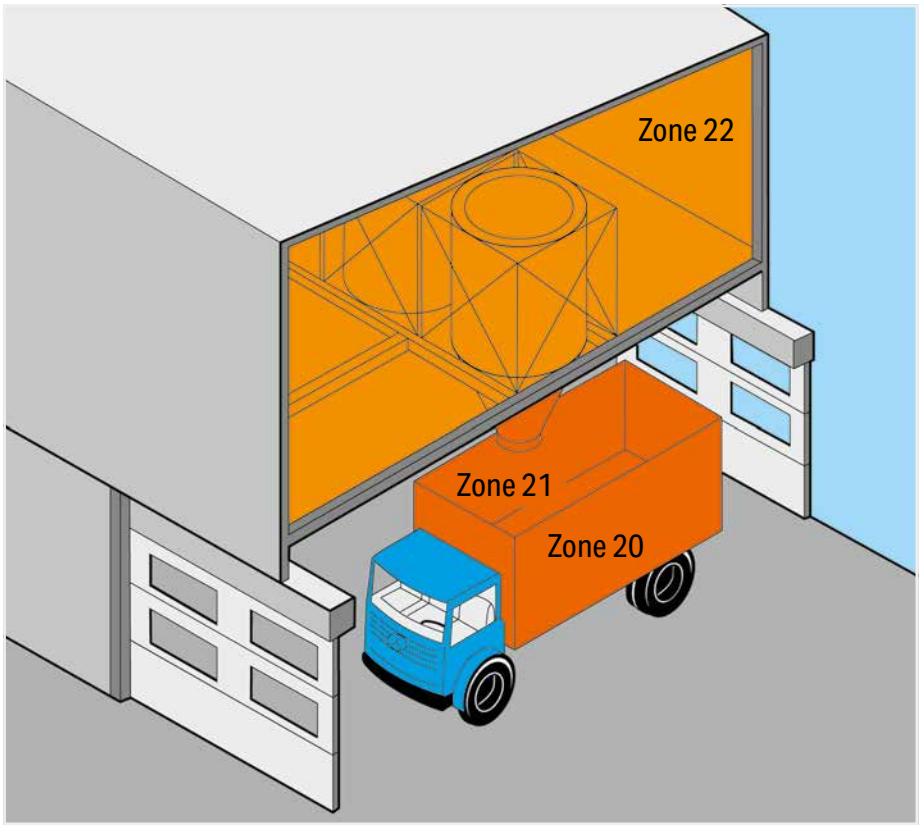
Area in which an explosive gas atmosphere is present continuously, for long periods or frequently.

Zone 1

Area in which an explosive gas atmosphere is likely to occur periodically or occasionally during normal operation.

Zone 2:

Area in which an explosive gas atmosphere is unlikely to occur during normal operation; if it does occur, then it is temporarily.



Hazardous areas due to explosive dust/air mixtures:

Zone 20

Area in which an explosive dust atmosphere due to dust/air mixtures is present continuously, for long periods or frequently.

Zone 21

Area in which an explosive dust atmosphere due to dust/air mixtures is likely to occur occasionally during normal operation.

Zone 22

Area in which an explosive dust atmosphere due to flammable dust/air mixtures is unlikely to occur during normal operation; but if it occurs, then only for a short period of time.

General Technical Information on Electrical Equipment Used in Hazardous Areas
Continued

EN 60079-0 also classifies electrical equipment for use in hazardous areas into two groups:

Group I:
Electrical equipment for mines susceptible to firedamp

Group II:
Electrical equipment for hazardous areas, except for mines susceptible to firedamp.

As this broad application range encompasses a large number of potentially flammable gases, Group II is broken down into subgroups IIA, IIB and IIC.
This breakdown is based on different gases/materials exhibiting differing ignition power levels as parameters. Therefore, representative gases have been allocated to these three sub-groups:
- IIA – Propane
- IIB – Ethylene
- IIC – Hydrogen

WAGO's terminal blocks can be used both in Group I and Group II.

This information is given under Item 12 in the EU Prototype Test Certificates, based on which the terminal blocks have been approved for Group I and Group II.

Temperature Class	Maximum Surface Temperature (°C)
T1	450
T2	300
T3	200
T4	135
T5	100
T6	85

Depending on the maximum surface temperature, electrical equipment in Group II are classified in temperature categories T1 to T6 for all protection types. The surrounding air temperature, which must be accounted for in dimensioning, is defined as 40°C/104°F (deviations are acceptable under some conditions).
Terminal blocks for "eb" (increased safety) protection type are generally assigned to temperature category T 6. When rail-mount terminal blocks are used in equipment of temperature categories T1 to T5, ensure that the highest temperature on the insulating parts does not exceed 85°C (185°F).
The highest measured surface temperature rise must not exceed 40 K.

Thermal resistance of the insulation material must be at least 20°C (68°F) greater than the highest operating temperature. Low temperature stability is considered to be sufficient when the insulation material can withstand 24-hour storage at a temperature of −60°C (−76°F) without nullifying the type of protection.

Special Requirements "Increased Safety Ex e"
The European EN 60079-7 Standard – VDE 0170-6 Classification – contains special requirements for the design and testing of electrical equipment with "eb" (increased safety) protection type for use in hazardous areas.
This standard is a supplement to EN 60079-0 and applies to equipment or parts thereof that neither generate sparks or arcing under normal operating conditions, nor exhibit hazardous temperatures.
This standard describes special measures, which have to be observed to obtain a safety degree according to the "eb" (increased safety) protection type.
Ex components such as rail-mount terminal blocks are covered by Section 4.2 "Terminal Blocks for External Conductors":
- The terminal blocks must be installed in an enclosure meeting the requirements of a recognized protection type per EN 60079-0, Section 1 or EN 60079-31.
- When installing the terminal blocks in an enclosure of protection type "eb" (increased safety) per EN 60079-7, the clearances and creepage distances of Table 2 must be observed. When using accessories, the installation instructions of the manufacturer must be observed.
- The terminal blocks can be used both in Group II and Group I, as the standard requirements are identical in this case.
- The use of this component requires a new assessment by a notified certification agency.

Minimum Ignition Power of Typical Gases:

Explosion Group	I	IIA	IIB	IIC
Gas	Methane	Propane	Ethylene	Hydrogen
Ignition Power	280	250	82	16

The following are the most important design requirements for terminal blocks for external supply conductors to electrical equipment:
These must:
- be sufficiently large to permit reliable connection of external supply conductors with cross section of at least the size required by the nominal current of the equipment
- be protected against self-loosening and designed such that the supply conductors cannot slip out of their clamping units
- be designed such that adequate contact pressure is ensured without damaging the conductors
- be designed such that their contact pressure does not change with temperature cycling
- be equipped with a spring connecting link for the connection of stranded conductors
- be designed so as to allow secure connection of smaller conductors for terminal blocks up to 4 mm² (12 AWG).

Classification of insulation materials according to their tracking resistance is based on their Comparative Tracking Index (CTI) and is defined in Table 1 as follows:
This classification applies to insulating parts without ribs or grooves.
If the insulating parts have ribs or grooves sufficiently large to be considered, the minimum creepage distances must be set according to values for the insulation materials in the next-higher level (e.g., Group I, instead of Group II).
Accounting for the surrounding air temperature of 40°C (104°F) specified for electrical equipment, the current-carrying capacity of rubber-insulated conductors is reduced to 82%, based on DIN VDE 0298-4:2013-06, Table 12 and to 87% for PVC-insulated conductors for the current-carrying capacity defined for 30°C (86°F) in accordance with DIN VDE 0298-4:2013-06, Item 4.3.3.

It is expressly prohibited to use insulating parts for transferring contact forces. Terminal blocks with sharp edges which could damage supply lines and those types that can be rotated, turned or permanently deformed when fixed in place are not permitted for use. Terminal blocks for internal connections in electrical equipment must not be subjected to excessive mechanical stress. These items must fulfill the requirements for terminal blocks used for external supply conductors.
Clearances between conductive parts having different potentials must be at least 3 mm for external connections, as specified in Table 2. The value of the creepage distances depends on the working voltage, surface geometry of the insulating parts and tracking resistance of the insulation material.
Grooves on the surface may only be considered if they are at least 2.5 mm deep and wide; ribs on the surface only if their height is at least 2.5 mm and their width corresponds to the mechanical strength of the material, however not smaller than 1 mm.

Conductor Types and Conductor Preparation

In accordance with EN 60079-14/DIN VDE 0165-1, the ends of stranded and fine-stranded conductors must be protected against splaying (e.g., via cable lugs or ferrules) or by the type of terminal blocks used. Soldering alone is not sufficient.
According to EN 60069-7/DIN VDE 0170-6, connecting electrical equipment to terminal blocks having an “eb” (increased safety) protection type must not lead to a reduction of the clearances and creepage distances.
Based on experience through the application of terminal blocks in aggressive atmospheres in the chemical industry, WAGO recommends gas-tight tinned copper ferrules or tinned copper pin terminals when connecting fine-stranded conductors to terminal blocks in corrosive atmospheres.

Table 1– Tracking Resistance for Insulation Materials

Material Group	Comparative Tracking Index
I	600 ≤ CTI
II	400 ≤ CTI < 600
III a	175 ≤ CTI < 400
III b	100 ≤ CTI < 175

Table 2– Minimum Creepage Distances/Clearances and Isolations

Voltage (see [a] and [b]) RMS Value for AC or DC Voltage V	Minimum Creepage Distance mm								Minimum Clearance and Isolations mm		
	Material Group								Clearance mm		Distance under Coating[d]
	I		II		III a		III b				
	“eb”	“ec”	“eb”	“ec”	“eb”	“ec”	“eb”	“ec”	“eb”	“ec”	“ec”
≤ 10 (see [c])	1.6	1	1.6	1	1.6	1	–	1	1.6	0.4	0.3
≤ 12.5	1.6	1.05	1.6	1.05	1.6	1.05	–	1.05	1.6	0.4	0.3
≤ 16	1.6	1.1	1.6	1.1	1.6	1.1	–	1.1	1.6	0.8	0.3
≤ 20	1.6	1.2	1.6	1.2	1.6	1.2	–	1.2	1.6	0.8	0.3
≤ 25	1.7	1.25	1.7	1.25	1.7	1.25	–	1.25	1.7	0.8	0.3
≤ 32	1.8	1.3	1.8	1.3	1.8	1.3	–	1.3	1.8	0.8	0.3
≤ 40	1.9	1.4	2.4	1.6	3	1.8	–	1.8	1.9	0.8	0.6
≤ 50	2.1	1.5	2.6	1.7	3.4	1.9	–	1.9	2.1	0.8	0.6
≤ 63	2.1	1.6	2.6	1.8	3.4	2	–	2	2.1	0.8	0.6
≤ 80	2.2	1.7	2.8	1.9	3.6	2.1	–	2.1	2.2	0.8	0.8
≤ 100	2.4	1.8	3	2	3.8	2.2	–	2.2	2.4	0.8	0.8
≤ 125	2.5	1.9	3.2	2.1	4	2.4	–	2.4	2.5	1	0.8
≤ 160	3.2	2	4	2.2	5	2.5	–	2.5	3.2	1.5	1.1
≤ 200	4	2.5	5	2.8	6.3	3.2	–	3.2	4	2	1.7
≤ 250	5	3.2	6.3	3.6	8	4	–	4	5	2.5	1.7
≤ 320	6.3	4	8	4.5	10	5	–	5	6	3	2.4
≤ 400	8	5	10	5.6	12.5	6.3	–	6.3	6	4	2.4
≤ 500	10	6.3	12.5	7.1	16	8	–	8	8	5	2.4
≤ 630	12	8	16	9	20	10	–	10	10	5.5	2.9
≤ 800	16	10	20	11	25	12.5	–	–	12	7	4
≤ 1000	20	11	25	11	32	13	–	–	14	8	5.8
≤ 1250	22	12	26	12	32	15	–	–	18	10	–
≤ 1600	23	13	27	13	32	17	–	–	20	12	–
≤ 2000	25	14	28	14	32	20	–	–	23	14	–
≤ 2500	32	18	36	18	40	25	–	–	29	18	–
≤ 3200	40	22	45	22	50	32	–	–	36	22	–
≤ 4000	50	28	56	28	63	40	–	–	44	28	–
≤ 5000	63	36	71	36	80	50	–	–	50	36	–
≤ 6300	80	45	90	45	100	63	–	–	60	45	–
≤ 8000	100	56	110	56	125	80	–	–	80	56	–
≤ 10000	125	71	140	71	160	100	–	–	100	70	–
≤ 12500	–	90	–	90	–	125	–	–	–	89	–
≤ 13640	–	98	–	98	–	138	–	–	–	97	–

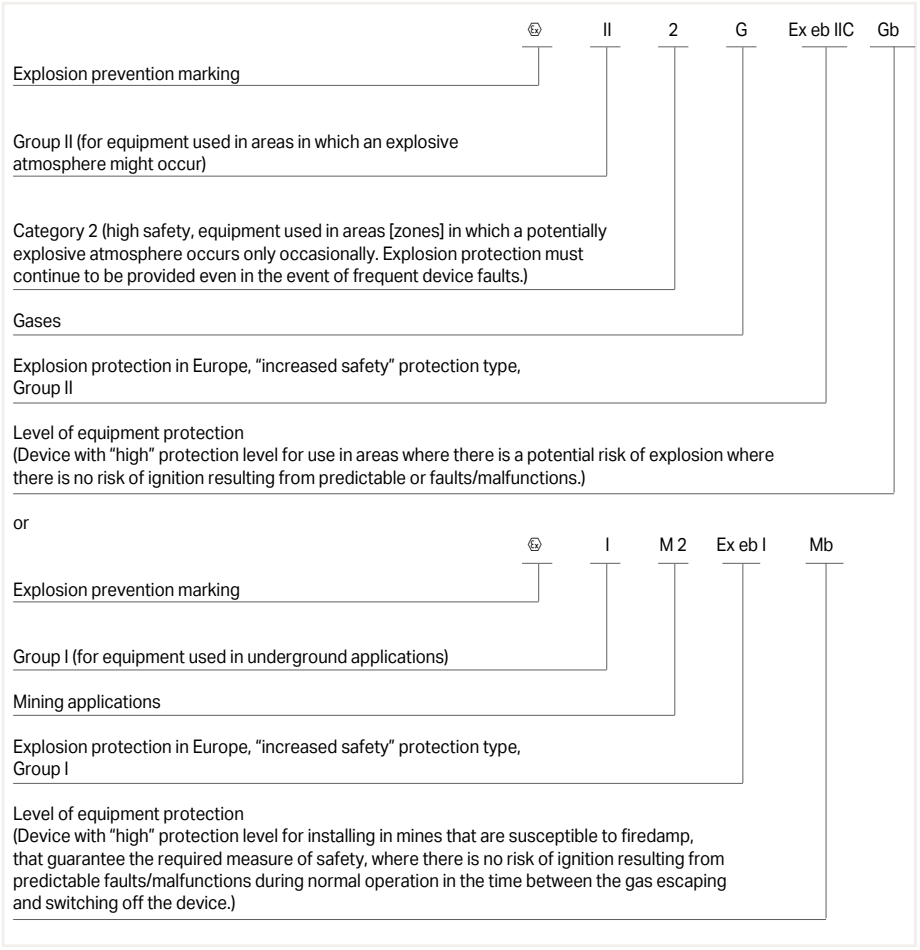
[a] When determining the required values for creepage distances and clearances, the working voltage may be 1.1 times higher than the value in the table.
NOTE: The factor of 1.1 takes into account that in many places in a circuit the working voltage is equal to the rated voltage and that a number of rated voltages are used, which are covered by a factor of 1.1.
[b] The specified values for creepage distances and clearances already take into account a 10% tolerance for the highest supply voltage. Therefore, further considerations on the voltage fluctuations are unnecessary for determining which voltage value from the table should be used.
[c] CTI values are not applicable for voltages of 10 V or less. Materials that do not meet the requirements of material group III a can be used.
[d] The specified distances under consideration apply to printed circuit boards in protection level “ec” after 4.5.

General Technical Information on Electrical Equipment Used in Hazardous Areas
Continued

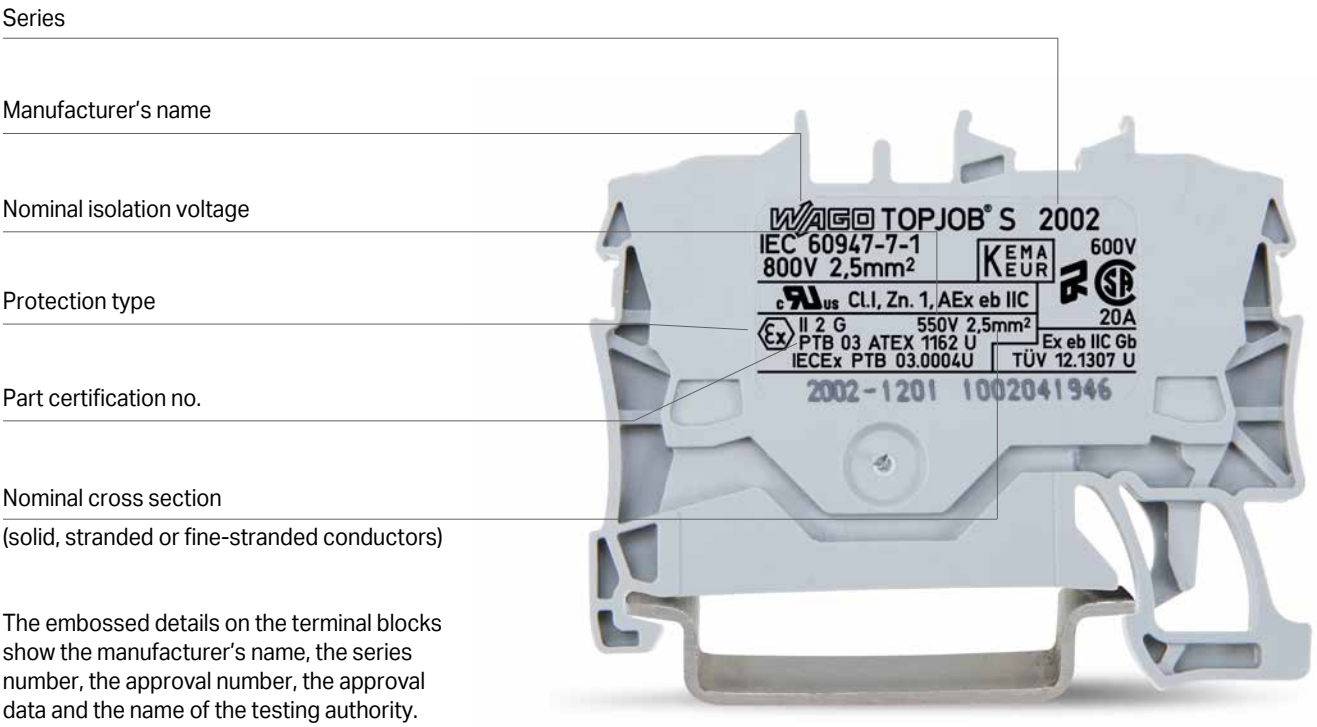
Approvals

Terminal blocks may be used in Zones 1 and 2, provided that the terminal blocks are accommodated in an enclosure that has a minimum IP54 protection and an Ex e certification.
Terminal blocks are considered to be Ex components because they are a part of the equipment. Part certificates provided by Ex Certification Agencies serve as a basis for issuing the complete conformity declaration for the unit.
An EC-type examination certificate is issued in accordance with the 2014/34/EU ATEX Directive.
In addition, an IEXEx Certificate may also be obtained from an appropriate, recognized certification agency in accordance with the IECEx Certification Agreement that is accepted throughout Europe and also in countries such as Canada, China and Australia.
These certificates can also be viewed at: www.iecex.com.

Terminal block marking per 2014/34/EU ATEX Directive:



Example of marking (rear):

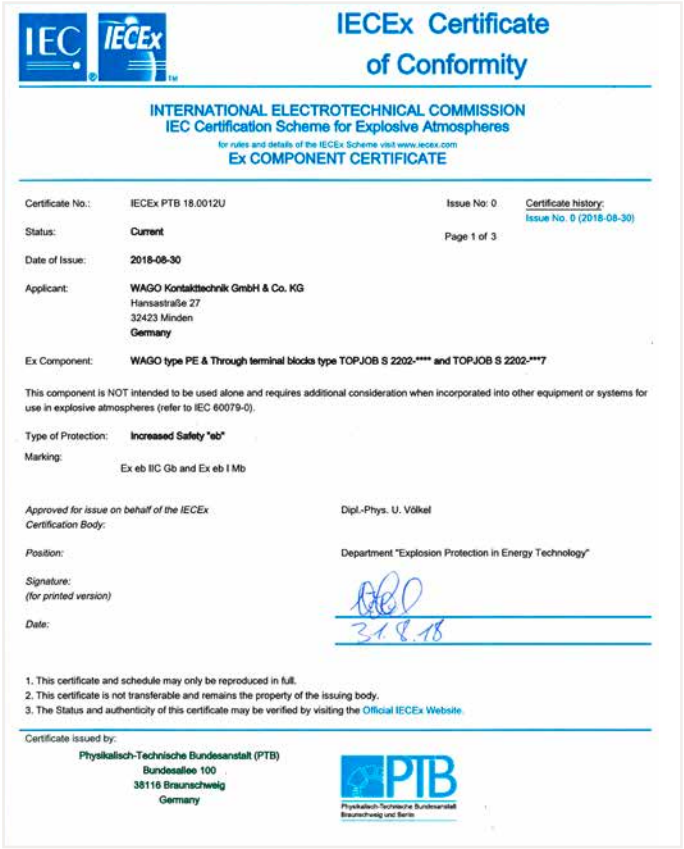


The embossed details on the terminal blocks show the manufacturer's name, the series number, the approval number, the approval data and the name of the testing authority. The type of protection Ex eb IIC Gb shown on the label or on the smallest packaging unit.

Terminal blocks for Class I, Zone 1, Ex eb IIC hazardous locations can be approved for Ex applications per UL 60079-7 standard.
As a result of international harmonization efforts, the UL certificate can be issued on the basis of EN 60079-0 or EN 60079-7 standards, provided that the terminal blocks have also been approved per UL 1059 (ordinary location).

If desired by the applicant, terminal blocks can simultaneously be approved in accordance with the Canadian Standards CAN/CSA-C22.2 No. 60079-0 and CAN/CSA C22.2 No. 60079-7 and released for use in Canada. The terminal blocks are marked with c UL us Cl. I, Zn. 1, AEx eb IIC.

EU-type examination certificates have been granted to all WAGO terminal blocks listed in this catalog.
WAGO terminal blocks approved for use in Ex eb IIC areas are manufactured of flame-resistant, self-extinguishing Polyamide 66. The same applies to the terminal blocks used in non-hazardous areas. Tracking resistance with a CTI value of 600 as per IEC 60112 and a constant operating temperature of 105°C (22°F) in accordance with IEC 60216-1 and -2 are provided.
Factory part quality tests are performed on all CAGE CLAMP® rail-mount terminal blocks with Ex eb IIC approval to monitor and ensure the quality features described above.



IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION
IEC Certification Scheme for Explosive Atmospheres
for rules and details of the IECEx Scheme visit www.iecex.com
Ex COMPONENT CERTIFICATE

Certificate No.: IECEx PTB 18.0012U
Issue No: 0
Certificate history: Issue No. 0 (2018-08-30)
Status: Current
Page 1 of 3
Date of Issue: 2018-08-30
Applicant: WAGO Kontakttechnik GmbH & Co. KG
Hansastraße 27
32423 Minden
Germany
Ex Component: WAGO type PE & Through terminal blocks type TOPJOB S 2202-**** and TOPJOB S 2202-***7

This component is NOT intended to be used alone and requires additional consideration when incorporated into other equipment or systems for use in explosive atmospheres (refer to IEC 60079-0).

Type of Protection: Increased Safety "eb"
Marking:
Ex eb IIC Gb and Ex eb I Mb

Approved for issue on behalf of the IECEx Certification Body: Dipl.-Phys. U. Völkel
Position: Department "Explosion Protection in Energy Technology"
Signature: (for printed version)
Date: 31.8.18

1. This certificate and schedule may only be reproduced in full.
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Certificate issued by:
Physikalisch-Technische Bundesanstalt (PTB)
Bundesallee 100
38116 Braunschweig
Germany

Physikalisch-Technische Bundesanstalt
Braunschweig und Berlin
Nationales Metrologieinstitut

EU-Baumusterprüfbescheinigung

(1)
(2) Komponente zur bestimmungsgemäßen Verwendung in explosionsgefährdeten Bereichen
Richtlinie 2014/34/EU
(3) EU-Baumusterprüfbescheinigungsnummer
PTB 18 ATEX 1005 U Ausgabe: 0
(4) Produkt: Durchgangsreihenklemmen Typ TOPJOB S 2202-****
Schutzleiterreihenklemmen Typ TOPJOB S 2202-***7
(5) Hersteller: WAGO Kontakttechnik GmbH & Co. KG
(6) Anschrift: Hansastraße 27, 32423 Minden, Deutschland
(7) Die Bauart dieses Produkts sowie die verschiedenen zulässigen Ausführungen sind in der Anlage und den darin aufgeführten Unterlagen zu dieser Baumusterprüfbescheinigung festgelegt.
(8) Die Physikalisch-Technische Bundesanstalt, notifizierte Stelle Nr. 0102 gemäß Artikel 17 der Richtlinie 2014/34/EU des Europäischen Parlaments und des Rates vom 26. Februar 2014, bescheinigt, dass dieses Produkt die grundlegenden Sicherheits- und Gesundheitsanforderungen für die Konzeption und den Bau von Produkten zur bestimmungsgemäßen Verwendung in explosionsgefährdeten Bereichen gemäß Anhang II der Richtlinie erfüllt.
Die Ergebnisse der Prüfung sind in dem vertraulichen Prüfbericht PTB Ex 18-17171 festgehalten.
(9) Die grundlegenden Sicherheits- und Gesundheitsanforderungen werden erfüllt durch Übereinstimmung mit
IEC 60079-0:2017, EN 60079-7:2015
(10) Das Zeichen "U" hinter der Zertifikatsnummer gibt an, dass dieses Zertifikat nicht mit einem für ein Gerät oder Schutzsystem vorgesehenen Zertifikat verwechselt werden darf. Diese Komponenten-Bescheinigung darf als Basis für die Bescheinigung eines Gerätes oder Schutzsystems verwendet werden.
(11) Diese EU-Baumusterprüfbescheinigung bezieht sich nur auf Konzeption und Prüfung des festgelegten Produkts gemäß Richtlinie 2014/34/EU. Weitere Anforderungen dieser Richtlinie gelten für die Herstellung und das Bereitstellen auf dem Markt. Diese Anforderungen werden nicht durch diese Bescheinigung abgedeckt.
(12) Die Kennzeichnung des Produkts muss die folgenden Angaben enthalten:
II 2 G Ex eb IIC Gb bzw. I M 2 Ex eb I Mb

Konformitätsbewertungsstelle, Sektor Explosionsschutz Braunschweig, 30. August 2018
Im Auftrag
Dipl.-Phys. U. Völkel

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General Technical Information on Electrical Equipment Used in Hazardous Areas
Continued

Special Requirements
Equipment Protection by Intrinsic Safety "i"
The European EN 60079-11 Standard – Classification VDE 0170-7 – contains special requirements for the design and testing of electrical equipment with "i" (intrinsic safety) protection type for use in hazardous areas.

A circuit is "intrinsically safe" when, under normal operating conditions and in the event of specific fault conditions, no sparks or thermal effects can occur and cause the ignition of a certain explosive atmosphere.

A distinction is made here between:
- intrinsically safe electrical equipment when all circuits are intrinsically safe
- associated electrical equipment including both intrinsically and non-intrinsically safe circuits, and being designed such that the non-intrinsically safe circuits cannot affect the intrinsically safe ones.

Intrinsically safe electrical equipment and intrinsically safe parts of associated electrical equipment are classified at "ia", "ib" or "ic" protection level.
Electrical equipment classified Ex "ia" must not ignite when current is applied in the following cases:
a) During fault-free operation, with those non-discreet faults present that result in the most adverse condition
b) During fault-free operation and with a discreet fault, plus those non-discreet faults that result in unfavorable conditions
c) During fault-free operation with two discreet faults, plus those non-discreet faults that result in the most adverse conditions.

Electrical equipment classified Ex "ib" must not ignite when current is applied in the following cases:
a) During fault-free operation, with those non-discreet faults present that result in the most adverse condition
b) During fault-free operation and with a discreet fault, plus those non-discreet faults that result in unfavorable conditions.
At applied voltages, the intrinsically safe circuits in electrical equipment of protection level "ic" shall not be capable of causing ignition during undisturbed operation and under the conditions specified in this standard.
No special approval is required for terminal blocks used as simple electrical equipment for "Ex i" protection type, as they do not contain a voltage source and precise information is available concerning electrical data and temperature rise performance.
The terminal blocks must be identifiable, for example by their type designation, and the following design requirements must also be upheld:
Clearances and creepage distances between bare conductive parts of terminal blocks of separate intrinsically safe circuits and grounded or floating conductive parts shall be equal to or greater than the values given in Table 5 (see 672). If separate intrinsically safe circuits are to be considered, the air gap between bare conductive parts of the outer connection parts must meet the following requirements:
– at least 6 mm between the separate intrinsically safe circuits
– at least 3 mm from grounded parts, if a possible connection to ground has not been considered in the safety analysis. Each possible motion of metallic parts that are not rigidly secured must be considered.
Terminal block marking must be unique and clearly visible. If a color is used for this, the color must be light blue (similar to RAL 5015).
Note also when using terminal blocks:
Terminal blocks used for intrinsically safe circuits must be isolated from those used in non-intrinsically safe circuits. This is accomplished by several accepted methods. First, intrinsically safe circuits are separated by at least 50 mm of air space from non-intrinsically safe circuits.

Second, intrinsically safe circuits are housed in a separate enclosure. Third, intrinsically safe terminal blocks are separated from non-intrinsically safe terminal blocks by either an insulated partition or grounded metal partition. The partition size must allow for either 1.5 mm or less distance from the sides of the housing or provide at least 50 mm of creepage distance between the intrinsically and non-intrinsically safe circuits in all directions.
The insulation between an intrinsically safe and a non-intrinsically safe circuit has to withstand an effective AC voltage of 2 x nominal value (U) 1000 V or a minimum of 1500 kV, whereby U represents the total of the effective voltages of the intrinsically safe and the non-intrinsically safe circuit.
Short circuit between different intrinsically safe circuits could cause dangerous conditions. The insulation between these circuits should withstand an effective voltage of at least 500 VAC or 2 UAC where U is the total of the effective voltages of the related circuits.
In accordance with EN 60079-14/ DIN VDE 0165-1, in intrinsically safe circuits, the ends of stranded and fine-stranded conductors must be protected against splaying (e.g., via cable lugs or ferrules) or by the type of terminal blocks used. Soldering alone is not sufficient.
WAGO recommends gas-tight tinned copper ferrules or tinned copper pin terminals when connecting fine-stranded conductors to terminal blocks in corrosive atmospheres.

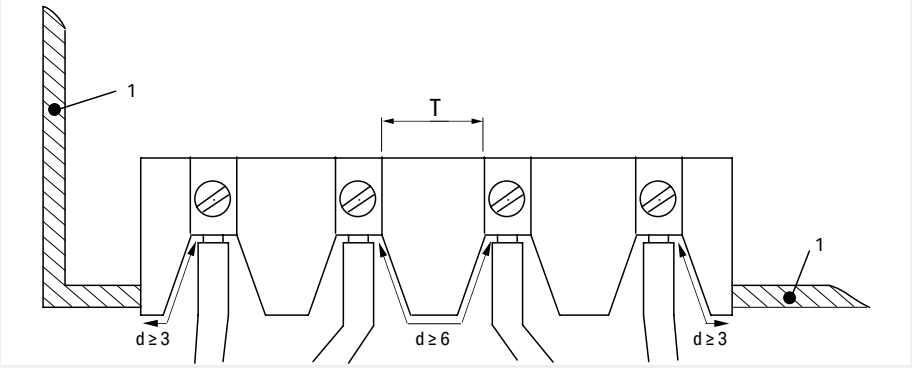
Requirements pertaining to the necessary distances as appropriate for use of the terminal blocks in the area DIN EN 60079-11 (VDE 0170-7) "Explosive atmosphere – Part 11: Device protection by intrinsically safe features "i" (IEC 60079-11)" are defined under Section 6.2 "Connecting point for external circuits," Section 6.2.1 "Terminal blocks." In general, the following can be stated for terminal blocks based on figure 1: "Example of isolated intrinsically safe terminal blocks with partition" in conjunction with figure 2: "Example of isolation of conductive parts," considering Table 5 – "Clearances, Creepage and Isolation Distances."

Outside:
a) Isolated intrinsically safe circuits: at least 6 mm
All PCB terminal blocks listed on the ordering pages as suitable for Ex "i" applications fulfill these requirements.
b) Intrinsically safe circuits and normal circuits (non-intrinsically safe): ≥ 50 mm

Inside:
a) Ex "i" to Ex "i"
b) Ex "i" to normal circuits
c) Ex "i" to ground
Based on Figure 2 and Table 5 (see next page) in accordance with the selected protection level and the special requirements for isolation distances as described in Sections 6.3.1 to 6.3.13, or in accordance with the alternative procedure for dimensioning of isolation distances given in Annex F.

Terminal blocks with smaller pin spacing may also be used for internal connections, provided they meet the requirements laid out in Table 5 (see below).

The exact clearances and creepage distances as well as separation distances based on Table 5 must be derived from the application items cited above.



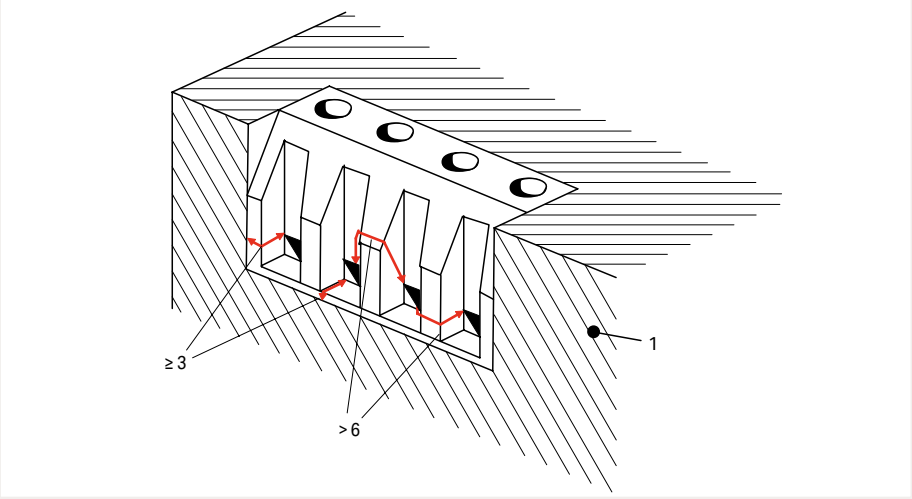


Figure 1a: Requirements for clearances and creepage distances for terminal blocks with isolated, intrinsically safe circuits

Legend:

1	Conductive cover
T	Distances based on Table 5
d	Distance at outer connecting parts of the terminal blocks according to 6.2.1

Note:
The dimensions indicated here represent the clearances and creepage distances around the insulation and not the thickness of the insulation.

Dimensions in mm

General Technical Information on Electrical Equipment Used in Hazardous Areas
Continued

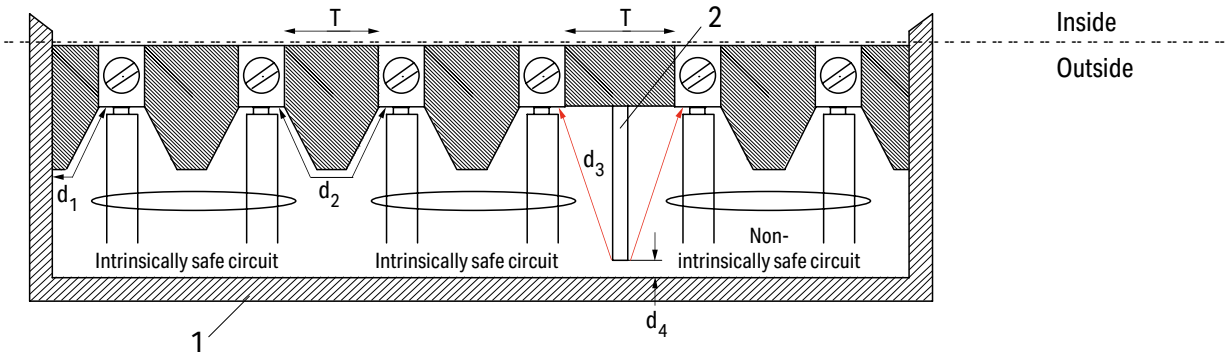


Figure 1b: Example of isolated intrinsically safe and non-intrinsically safe terminal blocks by a partition

Legend:

1 Cover: non-conductive or conductive and grounded

2 Partition based on 6.2.1 b); in this example, the partition must end at the base

T Distances based on Table 5

d1 ≥ 3 mm, when the cover is conductive and grounded

d2 ≥ 6 mm

d3 ≥ 50 mm or d4 ≤ 1.5 mm

Note:
The dimensions indicated here represent the clearances around the insulation and not the thickness of the insulation.

Table 5 – Clearances, Creepage and Isolation Distances

1	2		3		4		5		6		7	
Voltage (Peak) (V)	Clearance (in mm)		Separation by Encapsulation (in mm)		Separation by Fixed Insulation (in mm)		Creepage Distance through Air (in mm)		Creepage Distance beneath Protective Layer (in mm)		Comparative Tracking Index (CTI)	
Protection Level	ia, ib	ic	ia, ib	ic	ia, ib	ic	ia, ib	ic	ia, ib	ic	ia	ib, ic
10	1.5	0.4	0.5	0.2	0.5	0.2	1.5	1.0	0.5	0.3	--	
30	2.0	0.8	0.7	0.2	0.5	0.2	2.0	1.3	0.7	0.3	100	100
60	3.0	0.8	1.0	0.3	0.5	0.3	3.0	1.9	1.0	0.6	100	100
90	4.0	0.8	1.3	0.3	0.7	0.3	4.0	2.1	1.3	0.6	100	100
190	5.0	1.5	1.7	0.6	0.8	0.6	8.0	2.5	2.6	1.1	175	175
375	6.0	2.5	2.0	0.6	1.0	0.6	10.0	4.0	3.3	1.7	175	175
550	7.0	4.0	2.4	0.8	1.2	0.8	15.0	6.3	5.0	2.4	275	175
750	8.0	5.0	2.7	0.9	1.4	0.9	18.0	10.0	6.0	2.9	275	175
1000	10.0	7.0	3.3	1.1	1.7	1.1	25.0	12.5	8.3	4.0	275	175
1300	14.0	8.0	4.6	1.7	2.3	1.7	36.0	13.0	12.0	5.8	275	175
1575	16.0	10.0	5.3	*	2.7	*	49.0	15.0	16.3	*	275	175
3.3k	*	18.0	9.0	*	4.5	*	*	32.0	*	*	*	*
4.7k	*	22.0	12.0	*	6.0	*	*	50.0	*	*	*	*
9.5k	*	45.0	20.0	*	10.0	*	*	100.0	*	*	*	*
15.6k	*	70.0	33.0	*	16.5	*	*	150.0	*	*	*	*

Note 1: *At present, no values have been recommended for these voltages.

Note 2: Proof of fulfillment of the CTI requirements for the insulating materials must be provided by the manufacturer.
Defining a CTI is not required for insulation materials for voltage levels up to 10 V.

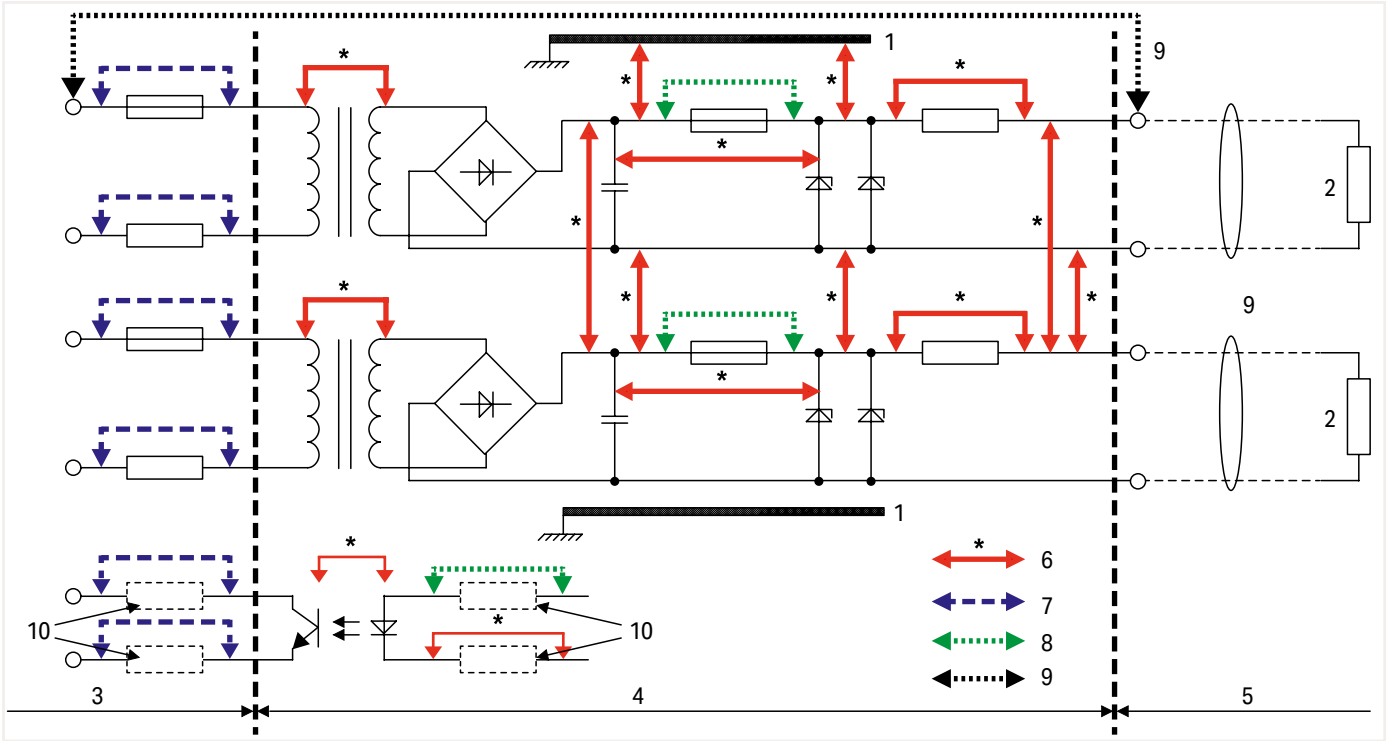


Figure 2: Isolation examples for conductive parts

Legend:

1	Chassis
2	Load
3	Non-intrinsically safe circuit defined by Um
4	Portion of intrinsically safe circuit, item is not intrinsically safe
5	Intrinsically safe circuit
6	Dimensions for which Table 5 applies
7	Dimensions for which general industrial standards apply
8	Dimensions per 7.3
9	Dimensions based on 6.2.1 for output terminal blocks between isolated intrinsically safe circuits (d2 ≥ 6 mm) and between intrinsically safe circuits and non-intrinsically safe circuits (d3 ≥ 50 mm)
10	Where required

In accordance with DIN EN 60079-14 (VDE 0165-1), in intrinsically safe circuits, the ends of stranded and fine-stranded conductors must be protected against splaying (e.g., via cable lugs or ferrules) or by the type of terminal blocks used. Soldering alone is not sufficient.
The conductor entry funnels of WAGO PCB terminal blocks fulfill this requirement.
WAGO recommends gas-tight tinned copper ferrules or tinned copper pin terminals when connecting fine-stranded conductors to terminal blocks in corrosive atmospheres.

International Certification Organizations – Overview

		Abbreviation
	Underwriters Laboratories USA http://www.ul.com	UL
	Underwriters Laboratories USA http://www.ul.com	UL
	Underwriters Laboratories USA http://www.ul.com	cURus
	Underwriters Laboratories USA http://www.ul.com	cULus
	Canadian Standards Association Canada http://www.csa.ca	CSA
VDE REG XXXX	VDE-Gutachten mit Fertigungsüberwachung Germany http://www.vde.de/vde/html/e/home.htm	VDE
	VDE – Deutscher Verband für Elektrotechnik Germany http://www.vde.de	
VDE	VDE – Prüfbericht Germany	
	Österreichischer Verband für Elektrotechnik Austria http://www.ove.at	ÖVE
	Schweizerischer Elektrotechnischer Verein Switzerland http://www.sev.ch/	SEV
KEMA KEUR	N.V. tot Keuring van Elektrotechnische Materialien Netherlands http://www.kema.nl	KEMA
CCA	CENELEC CERTIFICATION AGREEMENT N.V. tot Keuring van Elektrotechnische Materialien Netherlands http://www.cenelec.org	CCA Zul.-Nr. mit NL
	Norges Elektriske Materialkontroll Norway http://express.nemko.com	NEMKO
	Svenska Elektriska Materielkontrollanstalten AB Sweden http://www.semko.com	SEMKO

		Abbreviation
	Danmarks Elektriske Materielkontrol Denmark http://www.demko.dk	DEMKO
CCA	CENELEC CERTIFICATION AGREEMENT Danmarks Elektriske Materielkontrol Denmark http://www.cenelec.org	CCA Zul.-Nr. mit NL
	SETI – FEMKO Sähkötarkastuskeskus Elinspecktionscentralen Finland http://www.seti.fi	
	Sähkötarkastuskeskus Elinspecktionscentralen Finland http://www.fimko.com	FIMKO
SABS	South African Bureau of Standards South Africa http://www.sabs.co.za	SABS
	RosTesT Russia http://www.rostest.ru	ROTEST
	Departamentul Moldovastandard Moldova http://www.moldova.md/ro/government/oll/D_STAND/en/strcent2.htm	CSM
	Certificate of Registration Great Britain http://www.astacertification.com	ASTA
	Rheinisch-Westfälischer Technischer Überwachungsverein e.V. Germany http://www.rwtuv.de	RWTÜV
	Elektrotechnick´y v´yskumn´y a projektov´y ústav Czech Republic http://www.ezu.cz	EZU
	Stowarzyszenie Elektrykow Polskich Poland http://www.sep.com.pl	BBJ
	Stowarzyszenie Elektrykow Polskich Poland http://www.bbj.pl	SEP

		Abbreviation
CNET	**Centre National d'Etudes des Télécommunications** **France** http://www.lannion.cnet.fr	**CNET**
LCIE	**Laboratoire Central des Industries Electriques** **France** http://www.lcie.fr	**LCIE**
	Fyzikálne Technick´yZkusební Ústav, Ostrava-Radvanice **Czech Republic** http://www.ftzu.cz	**FTZU**
Marine Approvals		
BV	**Bureau Veritas** **France** http://www.bureauveritas.fr	**BV**
	Lloyd's Register of Shipping **Great Britain** http://www.lloydsregister.com	**LR**
DNV · GL	**NV – Det Norske Veritas** **Norway** http://www.dnvgl.com	**DNV-GL**
	Russian Maritime Register of Shipping **GUS** http://www.rs-head.spb.ru	**RMR**
	Polski Rejestr Statków **Poland** http://www.prs.pl	**PRS**
	Korean Register of Shipping **Korea** http://www.krs.co.kr	**KR**
ABS	**American Bureau of Shipping** **USA** http://www.eagle.org	**ABS**

		Abbreviation
	Robbanásbiztos Villamos Berendezések **Hungary** http://www.bki.hu	**BKI**
CB	**CB – TEST CERTIFICATE** **India** http://www.ul-europe.com	**CB**
CB	**CB – TEST CERTIFICATE** **China** http://www.ul-europe.com	**CB**
	http://www.enec.com	**ENEC**
EX Approvals		
PTB	**Physikalisch Technische Bundesanstalt** **Germany** http://www.ptb.de	**PTB**
c UL us	**Underwriters Laboratories** **USA** http://www.ul.com	**AEx**

Electrical Engineering Laboratory
Product Safety for Our Customers

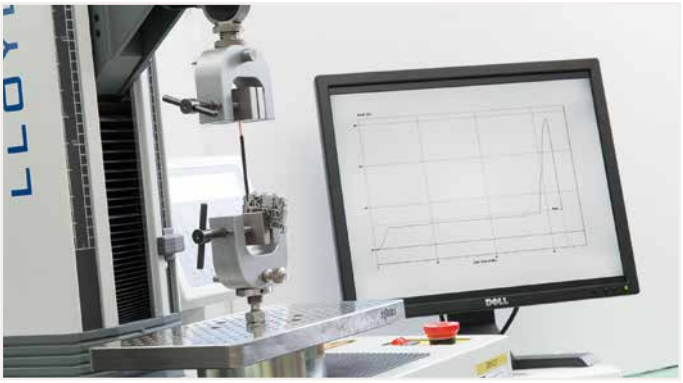
To use terminal blocks globally, they must satisfy certain standards and obtain test certificates. These requirements apply to every manufacturer. WAGO also conducts its own tests to increase standards and offer greater reliability with its products. Products undergo a full range of mechanical, electrical and climatic testing, and we'll share a few of those processes with you.

WAGO Test Lab

This means that WAGO's products can be used safely and reliably both in Europe and anywhere globally for a wide variety of applications. We heavily emphasize the importance of global acceptance during development. As a result, we can present documentation that verifies our high levels of product safety and reliability while ensuring the fulfillment and accuracy of technical data, which are the highest priorities for our customers and users worldwide.
On December 22, 2009, our test lab was accredited by the German Accreditation Association (Deutsche Gesellschaft für Akkreditierung GmbH) in accordance with DIN EN ISO/IEC 17025.

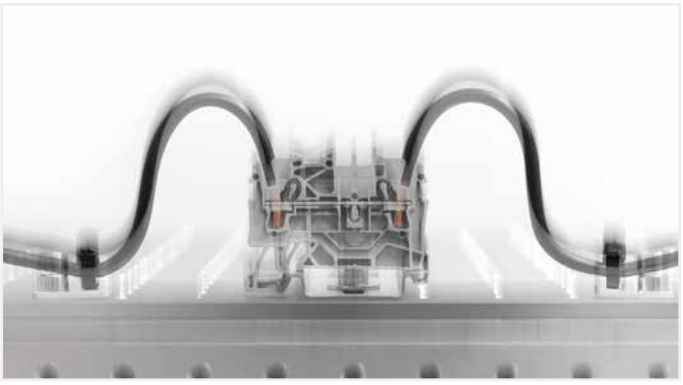
Pull-Out Test (per EN 60947-7-1, EN 60998-2-2)

During the pull-out force test, a conductor is pulled on until it is removed from the clamping unit. The design of the terminals means that extraction only occurs after the standard pull-out force has been exceeded many times over.



Vibration Test (per IEC/EN 60068-2-6)

Depending on the application, such as railway (per EN 61373) or marine (per GL, LR, DNV), there are various testing requirements to determine if the long-term effects of vibrations degrade electrical connections. The test specimen is subjected to different loads on three axes in an electrodynamic vibration system. The amplitude, the acceleration, and particularly the frequency of the vibration vary during the test. The test values are increased many times over the standard values to meet special customer requirements.



Shock Test (per IEC/EN 60068-2-27)

The shock test is very similar to the vibration test except that, instead of continuous vibrations, single shocks are applied to the test specimen. Shock tests are usually performed, for example, at an acceleration of 20g over a period of 11 ms. Tests for special requirements often call for much higher values and are also conducted in our laboratory. Single-deck TOPJOB® S Rail-Mount Terminal Blocks, for example, pass shock tests up to 500g.

Voltage Drop Test under Bending Stress (per EN 60947-7-1, EN 60999-1)

The voltage drop test under bending stress simulates mechanical stress on the clamping unit. In everyday use, this stress can occur during installation, for example, when an electrician shoves connected conductors to the side in order to access a specific component. The quality of the clamping unit when moving a connected conductor can be validated by the constantly stable measured value of the voltage drop.

DAkkS
Deutsche
Akkreditierungsstelle

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Beliehene gemäß § 8 Absatz 1 AkkStelleG i.V.m. § 1 Absatz 1 AkkStelleGBV
Unterzeichnerin der Multilateralen Abkommen
von EA, ILAC und IAF zur gegenseitigen Anerkennung

Akkreditierung

Die Deutsche Akkreditierungsstelle GmbH bestätigt hiermit, dass das Prüflaboratorium

WAGO Kontakttechnik GmbH & Co. KG
Hansastraße 27, 32423 Minden

die Kompetenz nach DIN EN ISO/IEC 17025:2005 besitzt, Prüfungen in folgenden Bereichen durchzuführen:

Elektrische und mechanische Prüfungen an Klemmen und Steckverbinder sowie Umweltsimulation

Die Akkreditierungsurkunde gilt nur in Verbindung mit dem Bescheid vom 18.12.2014 mit der Akkreditierungsnummer D-PL-19704-01 und ist gültig bis 17.12.2019. Sie besteht aus diesem Deckblatt, der Rückseite des Deckblatts und der folgenden Anlage mit insgesamt 5 Seiten.

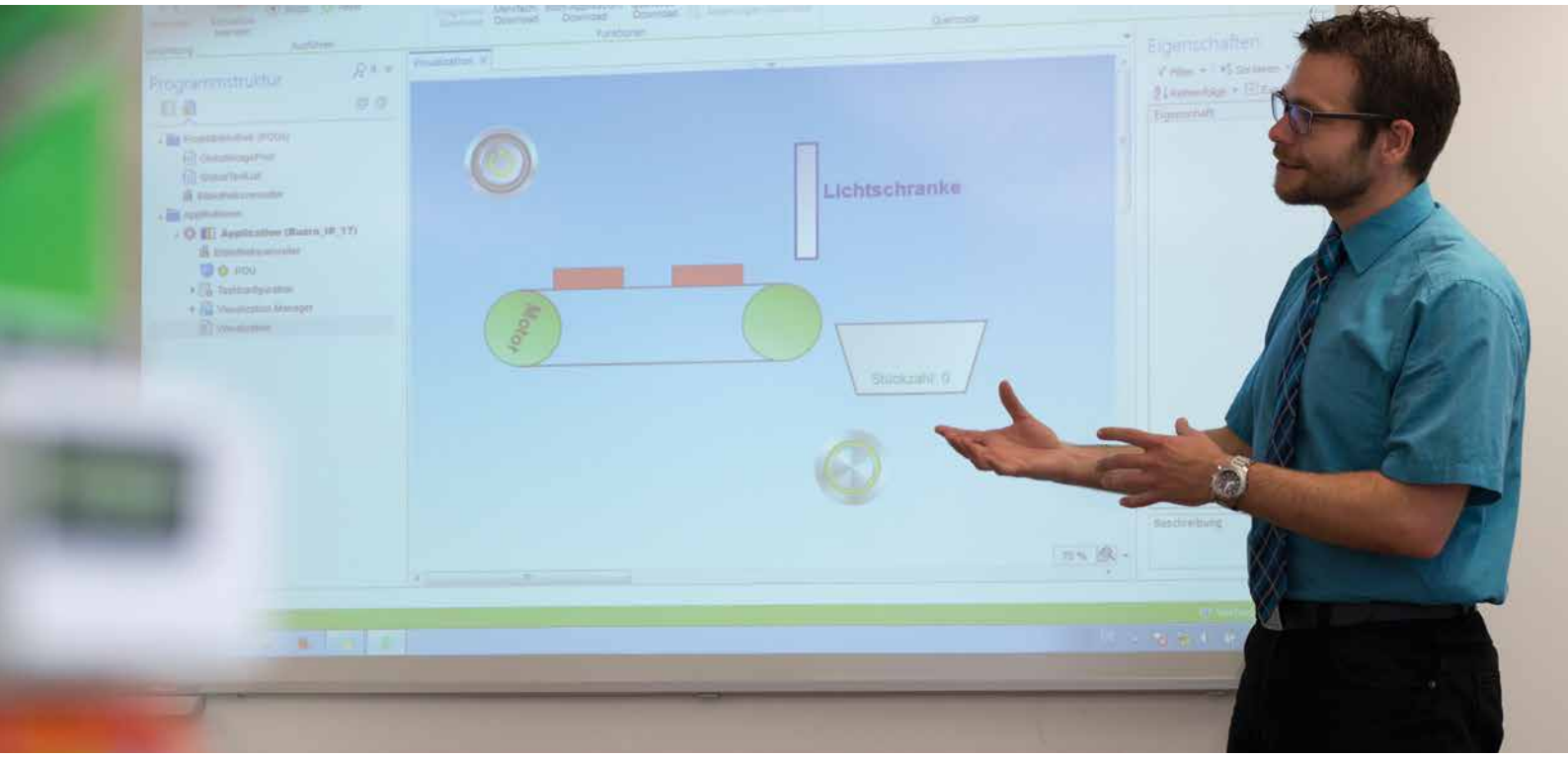
Registrierungsnummer der Urkunde: **D-PL-19704-01-00**

Frankfurt am Main, 18.12.2014

Im Auftrag Dipl.-Ing. (FH) Ralf Egner
Abteilungsleiter

Siehe Hinweise auf der Rückseite

WAGO-Seminars
Learn Today – Benefit Tomorrow



Setting the Bar with Your Goals

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The small class sizes of WAGO training seminars ensures that no question goes unanswered and no one is overlooked.

Teamwork

Learning as a group is very effective. Ideas can be discussed and exchanged while experiences can be shared – all for the benefit of the participants.

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Experience has shown that practice makes perfect. This is why the focus of every WAGO training seminar is on practical, hands-on learning.

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Our instructors are specialists who know all the ins and outs of WAGO's products. This ensures that the time devoted to each WAGO training seminar is an effective investment in expanding your own expertise.

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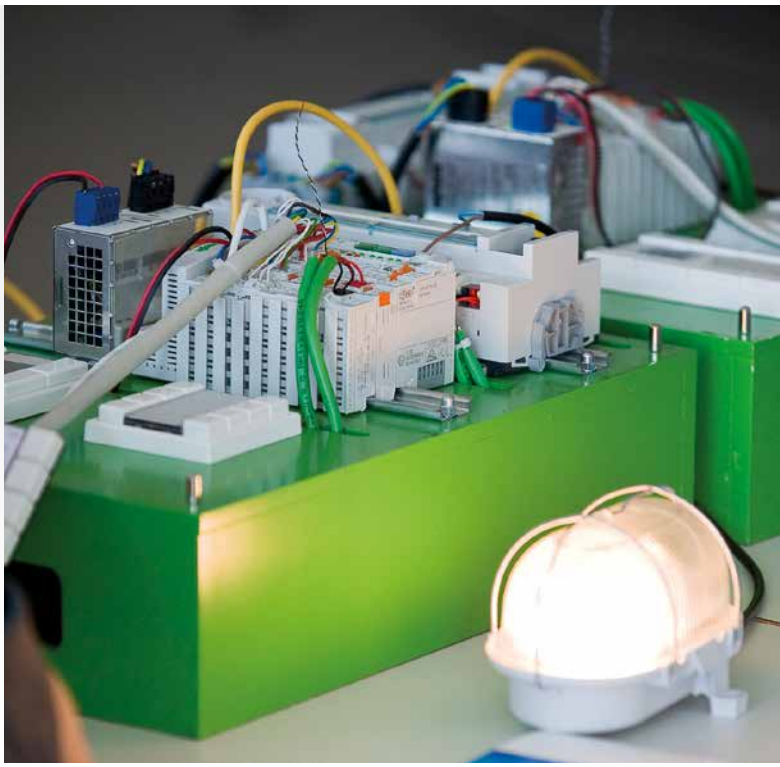
training@wago.com

Contact your local WAGO office.



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- Programming of automation components
- Fieldbus systems

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