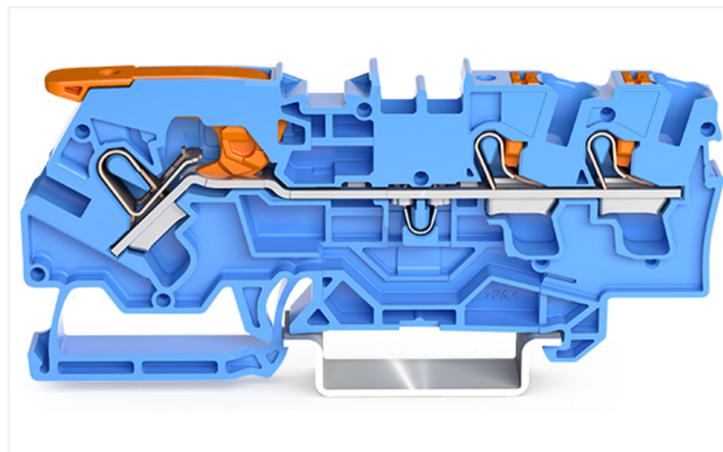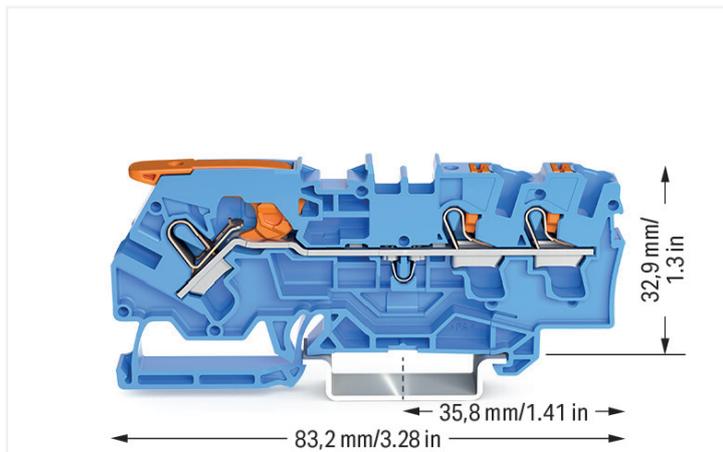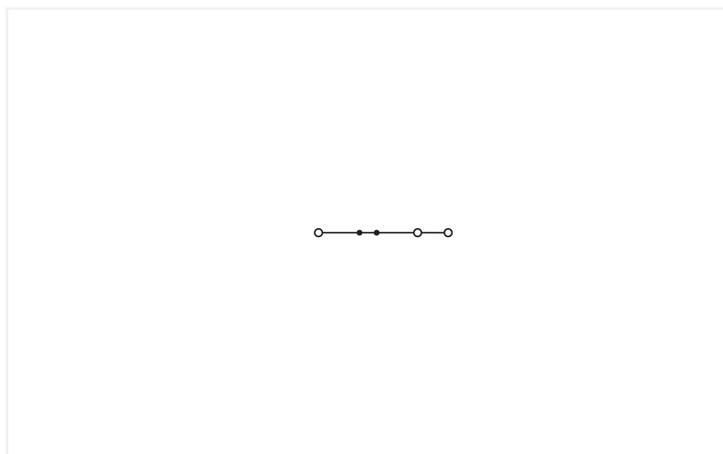3-conductor through terminal block; with lever and push-button; 4 mm²; with test port; suitable for Ex i applications; side and center marking; for DIN-rail 35 x 15 and 35 x 7.5; Push-in CAGE CLAMP®; 4,00 mm²; blue

https://www.wago.com/2104-5304

Color: ■ blue

Similar to illustration

Through terminal block, 2104 Series, blue

Our through terminal block (item number 2104-5304) is the perfect way to connect conductors quickly and securely. Ensure that the strip lengths are between 11 and 13 mm when connecting conductors to this through terminal block. Whether for industrial or building applications, you can use our through terminal blocks to connect electrical conductors quickly and safely. We offer variants for both classic through-wiring and potential distribution. Featuring conductor terminals along with Push-in CAGE CLAMP®, this product is highly versatile. Push-in CAGE CLAMP® technology provides a universal connection solution for any type of conductor. It allows both solid and fine-stranded conductors with ferrules to be inserted directly into the clamping point without the need for tools. Dimensions: (6.2 x 83.2 x 39.5) mm (width x height x depth). This through terminal block is suitable for conductor cross sections ranging from 0.5 mm² to 6 mm².

This through rail-mount terminal block is operated with lever,push-button. Our TOPJOB® S rail-mount terminal blocks offer more than just secure electrical connections in various industrial applications and modern building installations. They also offer the perfect actuation variant for every application: lever, push-button, or operating slot. This product is designed for specific Ex applications (please refer to the product datasheet).

## Electrical data

### Ratings per — IEC/EN 60947-7-1

| Ratings per | IEC/EN 60947-7-1 | | |
|---|---|---|---|
| Overvoltage category | III | III | II |
| Pollution degree | 3 | 2 | 2 |
| Nominal voltage | 800 V | - | - |
| Rated impulse withstand voltage | 8 kV | - | - |
| Rated current | 32 A | - | - |
| Current at conductor cross-section (max.) mm² | 40 A | - | - |

### Approvals per — UL 1059

| Approvals per | UL 1059 | | |
|---|---|---|---|
| Use group | B | C | D |
| Rated voltage | 600 V | 600 V | - |
| Rated current | 30 A | 30 A | - |

### Approvals per — CSA 22.2 No 158

| Approvals per | CSA 22.2 No 158 | | |
|---|---|---|---|
| Use group | B | C | D |
| Rated voltage | 600 V | 600 V | - |
| Rated current | 30 A | 30 A | - |

### Ex information

| Ex information | |
|---|---|
| Reference to hazardous areas | See "Downloads – Documentation – Additional Information: Technical Section; Technical Explications" |
| Ratings per | ATEX: PTB 20 ATEX 1006 U / IECEx: PTB 20.0012U (Ex eb IIC Gb) |
| Rated voltage EN (Ex e II) | 550 V |
| Rated current (Ex e II) | 28 A |

### Power Loss

| Power Loss | |
|---|---|
| Power loss, per pole (potential) | 1.3619 W |
| Rated current $I_N$ for power loss specification | 32 A |
| Resistance value for specified, current-dependent power loss | 0.001 Ω |

### General information

| General information | |
|---|---|
| Wiring direction | Front-entry wiring |

## Connection data

| Connection data | |
|---|---|
| Clamping units | 3 |
| Total number of potentials | 1 |
| Number of levels | 1 |
| Number of jumper slots | 2 |

### Connection 1

| Connection 1 | |
|---|---|
| Connection technology | Push-in CAGE CLAMP® |
| Actuation type | Lever |
| Connectable conductor materials | Copper |
| Nominal cross-section | 4 mm² |
| Solid conductor | 0.5 … 6 mm² / 20 … 10 AWG |
| Solid conductor; push-in termination | 1.5 … 6 mm² / 14 … 10 AWG |
| Fine-stranded conductor | 0.5 … 6 mm² / 20 … 10 AWG |
| Fine-stranded conductor; with insulated ferrule | 0.5 … 4 mm² / 20 … 12 AWG |
| Fine-stranded conductor; with ferrule; push-in termination | 1.5 … 4 mm² / 18 … 12 AWG |
| Note (conductor cross-section) | Depending on the conductor characteristic, a conductor with a smaller cross-section can also be inserted via push-in termination. |
| Strip length | 11 … 13 mm / 0.43 … 0.51 inches |
| Wiring direction | Front-entry wiring |

### Connection 2

| Connection 2 | |
|---|---|
| Actuation type | Push-button |

**WAGO**

## Physical data

| | |
|---|---|
| Width | 6.2 mm / 0.244 inches |
| Height | 83.2 mm / 3.276 inches |
| Depth from upper-edge of DIN-rail | 32.9 mm / 1.295 inches |
| Depth | 39.5 mm / 1.555 inches |

## Mechanical data

| | |
|---|---|
| Mounting type | DIN-35 rail |
| Marking level | Center/side marking |

## Material data

| | |
|---|---|
| Note (material data) | Information on material specifications can be found here |
| Color | blue |
| Material group | I |
| Insulation material (main housing) | Polyamide (PA66) |
| Flammability class per UL94 | V0 |
| Fire load | 0.213 MJ |
| Actuator color | orange |
| Weight | 12.1 g |

## Environmental requirements

| | |
|---|---|
| Processing temperature | -35 … +85 ℃ |
| Continuous operating temperature | -60 … +105 ℃ |

## Commercial data

| | |
|---|---|
| PU (SPU) | 50 pcs |
| Packaging type | Box |
| Country of origin | PL |
| GTIN | 4055143992558 |
| Customs tariff number | 85369010000 |

## Product Classification

| | |
|---|---|
| UNSPSC | 39121410 |
| ETIM 9.0 | EC000897 |
| ETIM 10.0 | EC000897 |
| ECCN | NO US CLASSIFICATION |

## Environmental Product Compliance

| | |
|---|---|
| RoHS Compliance Status | Compliant,No Exemption |

## Approvals / Certificates

### General approvals

| Approval | Standard | Certificate Name |
|---|---|---|
| CCA<br>DEKRA Certification B.V. | EN 60947 | NTR NL 7835 |
| CSA<br>DEKRA Certification B.V. | C22.2 | 80058036 |
| KEMA/KEUR<br>DEKRA Certification B.V. | EN 60947 | 71-114078 |
| UL<br>Underwriters Laboratories Inc. | UL 1059 | E45172 |

### Declarations of conformity and manufacturer's declarations

| Approval | Standard | Certificate Name |
|---|---|---|
| ATEX-Attestation of Conformity<br>WAGO GmbH & Co. KG | - | - |
| EU-Declaration of Conformity<br>WAGO GmbH & Co. KG | - | - |
| UK-Declaration of Conformity<br>WAGO GmbH & Co. KG | - | - |

### Approvals for hazardous areas

| Approval | Standard | Certificate Name |
|---|---|---|
| AEx<br>Underwriters Laboratories Inc. | UL 60079 | E185892 (AEx eb IIC resp. Ex eb IIC) |
| ATEX<br>Physikalisch Technische Bundesanstalt | IEC 60079-0 | PTB 20 ATEX 1006 U (II 2 G Ex eb IIC Gb bzw. I M 2 Ex eb I Mb) |
| CCCEx<br>CQST/CNEx | GB/T 3836.3 | 2020312313000276 (Ex eb IIC Gb, Ex eb I Mb) |
| IECEx<br>Physikalisch Technische Bundesanstalt | IEC 60079-0 | IECEx PTB 20.0012U (Ex eb IIC Gb or Ex eb I Mb) |
| INMETRO<br>TÜV Rheinland do Brasil Ltda. | IEC 60079 | TÜV 20.2086 U |

## Downloads

### Environmental Product Compliance

**Compliance Search**

| | |
|---|---|
| Environmental Product Compliance 2104-5304 | ↓ |

### Documentation

**Bid Text**

| | | |
|---|---|---|
| 2104-5304 | docx<br>21.28 KB | ↓ |
| 2104-5304 | xml<br>4.63 KB | ↓ |

## CAD/CAE-Data

| CAD data | CAE data |
|---|---|
| 2D/3D Models 2104-5304 ↓ | EPLAN Data Portal 2104-5304 ↓ |
| | ZUKEN Portal 2104-5304 ↓ |

## 1 Compatible Products

### 1.1 Required Accessories

#### 1.1.1 End plate

##### 1.1.1.1 End plate

Item No.: 2104-1391
End and intermediate plate; 1 mm thick; for 3-conductor terminal blocks; gray

Item No.: 2104-1392
End and intermediate plate; 1 mm thick; for 3-conductor terminal blocks; orange

### 1.2 Optional Accessories

#### 1.2.1 DIN-rail

##### 1.2.1.1 Mounting accessories

Item No.: 210-196
Aluminum carrier rail; 35 x 8.2 mm; 1.6 mm thick; 2 m long; unslotted; similar to EN 60715; silver-colored

Item No.: 210-198
Copper carrier rail; 35 x 15 mm; 2.3 mm thick; 2 m long; unslotted; according to EN 60715; copper-colored

Item No.: 210-508
Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; slotted; galvanized; similar to EN 60715; silver-colored

Item No.: 210-197
Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; slotted; similar to EN 60715; silver-colored

Item No.: 210-506
Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; unslotted; galvanized; similar to EN 60715; silver-colored

Item No.: 210-114
Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; similar to EN 60715; silver-colored

Item No.: 210-118
Steel carrier rail; 35 x 15 mm; 2.3 mm thick; 2 m long; unslotted; according to EN 60715; silver-colored

Item No.: 210-115
Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; slotted; according to EN 60715; "Hole width 18 mm; silver-colored

Item No.: 210-112
Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; slotted; according to EN 60715; "Hole width 25 mm; silver-colored

Item No.: 210-504
Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; slotted; galvanized; according to EN 60715; silver-colored

Item No.: 210-113
Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; unslotted; according to EN 60715; silver-colored

Item No.: 210-505
Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; unslotted; galvanized; according to EN 60715; silver-colored

#### 1.2.2 Ferrule

##### 1.2.2.1 Ferrule

Item No.: 216-262
Ferrule; Sleeve for 0.75 mm² / 18 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; gray

Item No.: 216-263
Ferrule; Sleeve for 1 mm² / AWG 18; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; red

Item No.: 216-264
Ferrule; Sleeve for 1.5 mm² / AWG 16; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; black

Item No.: 216-266
Ferrule; Sleeve for 2.5 mm² / AWG 14; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; blue

**WAGO**

## 1.2.2.1 Ferrule

**Item No.: 216-267**
Ferrule; Sleeve for 4 mm² / AWG 12; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; gray

## 1.2.3 Installation

### 1.2.3.1 Cover

**Item No.: 709-156**
Cover; Type 3; suitable for cover carrier, type 3; 1 m long; transparent

### 1.2.3.2 Cover carrier

**Item No.: 709-169**
Cover carrier; Type 3; incl. fixing/retaining screws and knurled nut; suitable for 279 to 282 and 880 Series rail-mounted terminal blocks; suitable for 264 Series miniature rail-mounted terminal blocks; suitable for 270 Series sensor and actuator terminal blocks; gray

## 1.2.4 Insulation stop

### 1.2.4.1 Insulation stop

**Item No.: 2004-171**
Insulation stop; 0.25 - 0.5 mm²; 5 pieces/strip; light gray

**Item No.: 2004-172**
Insulation stop; 0.75 - 1 mm²; 5 pieces/strip; dark gray

## 1.2.5 Jumper

### 1.2.5.1 Jumper

**Item No.: 2004-406/020-000**
Delta jumper; insulated; light gray

**Item No.: 2004-410**
Jumper; 10-way; insulated; light gray

**Item No.: 2004-402**
Jumper; 2-way; insulated; light gray

**Item No.: 2004-403**
Jumper; 3-way; insulated; light gray

**Item No.: 2004-404**
Jumper; 4-way; insulated; light gray

**Item No.: 2004-405**
Jumper; 5-way; insulated; light gray

**Item No.: 2004-406**
Jumper; 6-way; insulated; light gray

**Item No.: 2004-407**
Jumper; 7-way; insulated; light gray

**Item No.: 2004-408**
Jumper; 8-way; insulated; light gray

**Item No.: 2004-409**
Jumper; 9-way; insulated; light gray

**Item No.: 2004-440**
Jumper; from 1 to 10; insulated; light gray

**Item No.: 2004-433**
Jumper; from 1 to 3; insulated; light gray

**Item No.: 2004-434**
Jumper; from 1 to 4; insulated; light gray

**Item No.: 2004-435**
Jumper; from 1 to 5; insulated; light gray

**Item No.: 2004-436**
Jumper; from 1 to 6; insulated; light gray

**Item No.: 2004-437**
Jumper; from 1 to 7; insulated; light gray

## 1.2.5.1 Jumper

**Item No.: 2004-438**
Jumper; from 1 to 8; insulated; light gray

**Item No.: 2004-439**
Jumper; from 1 to 9; insulated; light gray

**Item No.: 2004-405/011-000**
Star point jumper; 3-way; insulated; light gray

**Item No.: 210-103**
Wire commoning chain; insulated; black

**Item No.: 210-123**
Wire commoning chain; insulated; blue

## 1.2.6 Marking

### 1.2.6.1 Group marker carrier

**Item No.: 2009-191**
Group marker carrier; gray

**Item No.: 2009-192**
Group marker carrier; gray

**Item No.: 2009-193**
Group marker carrier; gray

### 1.2.6.2 Marker

**Item No.: 2009-145/000-006**
Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; blue

**Item No.: 2009-145/000-007**
Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; gray

**Item No.: 2009-145/000-023**
Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; green

**Item No.: 2009-145/000-012**
Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; orange

**Item No.: 2009-145/000-005**
Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; red

**Item No.: 2009-145/000-024**
Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; violet

**Item No.: 2009-145**
Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; white

**Item No.: 2009-145/000-002**
Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; yellow

**Item No.: 248-501/000-006**
Mini-WSB marking card; as card; not stretchable; plain; snap-on type; blue

**Item No.: 248-501/000-007**
Mini-WSB marking card; as card; not stretchable; plain; snap-on type; gray

**Item No.: 248-501/000-023**
Mini-WSB marking card; as card; not stretchable; plain; snap-on type; green

**Item No.: 248-501/000-017**
Mini-WSB marking card; as card; not stretchable; plain; snap-on type; light green

**Item No.: 248-501/000-012**
Mini-WSB marking card; as card; not stretchable; plain; snap-on type; orange

**Item No.: 248-501/000-005**
Mini-WSB marking card; as card; not stretchable; plain; snap-on type; red

**Item No.: 248-501/000-024**
Mini-WSB marking card; as card; not stretchable; plain; snap-on type; violet

**Item No.: 248-501**
Mini-WSB marking card; as card; not stretchable; plain; snap-on type; white

**Item No.: 248-501/000-002**
Mini-WSB marking card; as card; not stretchable; plain; snap-on type; yellow

**Item No.: 793-5501/000-006**
WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; blue

**Item No.: 793-5501/000-014**
WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; brown

**Item No.: 793-5501/000-007**
WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; gray

**Item No.: 793-5501/000-023**
WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; green

**Item No.: 793-5501/000-017**
WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; light green

**Item No.: 793-5501/000-012**
WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; orange

**Item No.: 793-5501/000-005**
WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; red

**Item No.: 793-5501/000-024**
WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; violet

**Item No.: 793-5501**
WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; white

**Item No.: 793-5501/000-002**
WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; yellow

**Item No.: 793-501/000-006**
WMB marking card; as card; not stretchable; plain; snap-on type; blue

**Item No.: 793-501/000-007**
WMB marking card; as card; not stretchable; plain; snap-on type; gray

**Item No.: 793-501/000-023**
WMB marking card; as card; not stretchable; plain; snap-on type; green

**Item No.: 793-501/000-017**
WMB marking card; as card; not stretchable; plain; snap-on type; light green

**Item No.: 793-501/000-012**
WMB marking card; as card; not stretchable; plain; snap-on type; orange

## 1.2.6.2 Marker

Item No.: 793-501/000-005
WMB marking card; as card; not stretchable; plain; snap-on type; red

Item No.: 793-501/000-024
WMB marking card; as card; not stretchable; plain; snap-on type; violet

Item No.: 793-501
WMB marking card; as card; not stretchable; plain; snap-on type; white

Item No.: 793-501/000-002
WMB marking card; as card; not stretchable; plain; snap-on type; yellow

Item No.: 2009-115/000-006
WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; blue

Item No.: 2009-115/000-007
WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; gray

Item No.: 2009-115/000-023
WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; green

Item No.: 2009-115/000-017
WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; light green

Item No.: 2009-115/000-012
WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; orange

Item No.: 2009-115/000-005
WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; red

Item No.: 2009-115/000-024
WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; violet

Item No.: 2009-115
WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; white

Item No.: 2009-115/000-002
WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; yellow

## 1.2.6.3 Marker carrier

Item No.: 2009-198
Adaptor; gray

## 1.2.6.4 Marking strip

Item No.: 2009-110
Marking strips; for Smart Printer; on reel; not stretchable; plain; snap-on type; white

## 1.2.7 Screwless end stop

### 1.2.7.1 Mounting accessories

Item No.: 249-117
Screwless end stop; 10 mm wide; for DIN-rail 35 x 15 and 35 x 7.5; gray

Item No.: 249-116
Screwless end stop; 6 mm wide; for DIN-rail 35 x 15 and 35 x 7.5; gray

## 1.2.8 Test and measurement

### 1.2.8.1 Testing accessories

Item No.: 2004-511
Modular TOPJOB®S connector; modular; for jumper contact slot; 1-pole; gray

Item No.: 2004-552
Modular TOPJOB®S connector; modular; for jumper contact slot; 2-pole; gray

Item No.: 2004-553
Modular TOPJOB®S connector; modular; for jumper contact slot; 3-pole; gray

Item No.: 2004-554
Modular TOPJOB®S connector; modular; for jumper contact slot; 4-pole; gray

Item No.: 2004-555
Modular TOPJOB®S connector; modular; for jumper contact slot; 5-pole; gray

Item No.: 2004-549
Spacer module; modular; e.g., for bridging commoned terminal blocks; gray

Item No.: 2009-174
Test plug adapter; for 4 mm Ø test plugs; for testing TOPJOB®S rail-mounted terminal blocks; gray

Item No.: 210-136
Test plug; 2 mm Ø; with 500 mm cable; red

## 1.2.8.1 Testing accessories

**Item No.: 2009-182**
Testing tap; for max. 2.5 mm²; tool-free connection for individual test wires 0.08 - 2.5 mm; gray

## 1.2.9 Tool

### 1.2.9.1 Operating tool

**Item No.: 210-658**
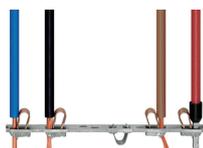Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; angled; short; multicoloured

**Item No.: 210-720**
Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; multicoloured

## Installation Notes
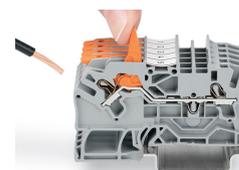
### Conductor termination

**All conductor types at a glance**

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!

Push the lever back down – done!

### Commoning

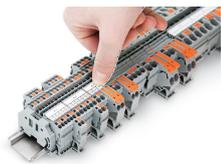Insert a push-in type jumper bar and push down until it hits the backstop.

Commoning with step-down jumpers.

### Testing

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

## Marking



Snapping a marking strip into a marker slot.



Snapping a marking strip into the marker slot.