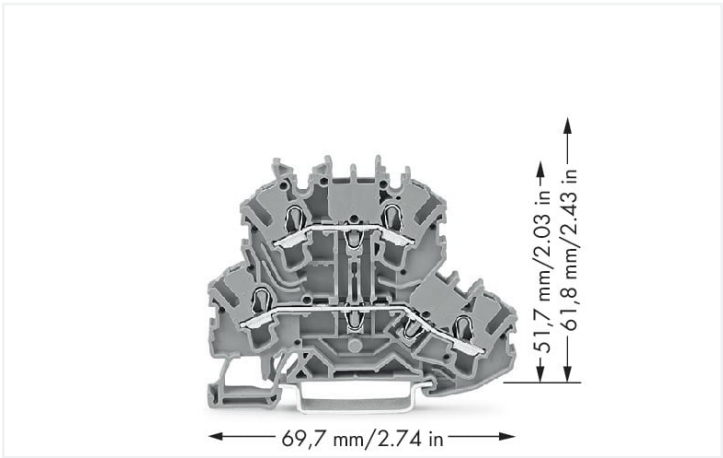


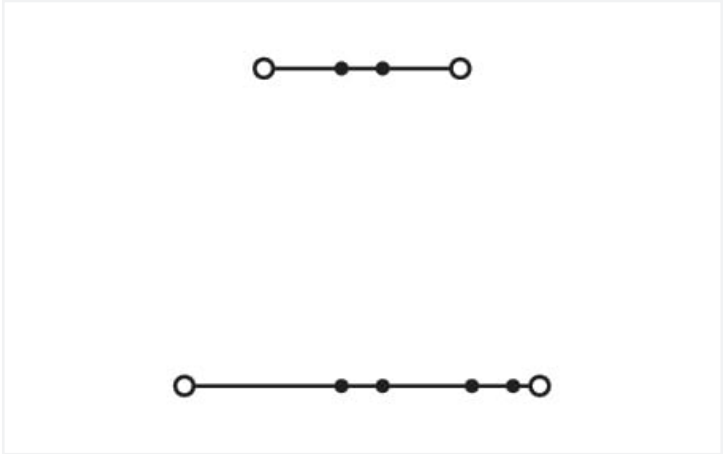
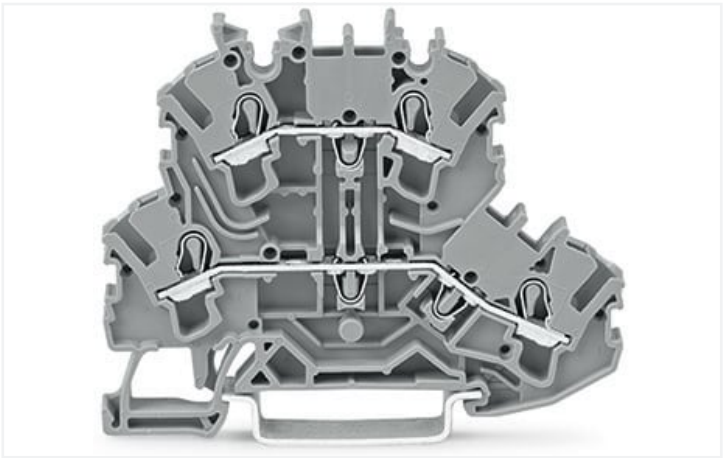
Data Sheet | Item Number: 2002-2201

Double-deck terminal block; Through/through terminal block; L/L; without marker carrier; suitable for Ex e II applications; for DIN-rail 35 x 15 and 35 x 7.5; 2.5 mm²; Push-in CAGE CLAMP®; 2,50 mm²; gray

<https://www.wago.com/2002-2201>



Color: ■ gray



Similar to illustration

| Electrical data | | | | |
|---|--|---|-------|-------|
| Ratings per | | IEC/EN 60947-7-1 | | |
| Overvoltage category | | III | III | II |
| Pollution degree | | 3 | 2 | 2 |
| Nominal voltage | | 500 V | - | - |
| Rated surge voltage | | 6 kV | - | - |
| Rated current | | 24 A | - | - |
| Current at conductor cross-section (max.) mm² | | 28 A | - | - |
| Approvals per | | UL 1059 | | |
| Use group | | B | C | D |
| Rated voltage | | 300 V | 300 V | 600 V |
| Rated current | | 20 A | 20 A | 5 A |
| Approvals per | | CSA 22.2 No 158 | | |
| Use group | | B | C | D |
| Rated voltage | | 600 V | 600 V | - |
| Rated current | | 20 A | 20 A | - |
| Ex information | | | | |
| Reference hazardous areas | | See "Downloads – Documentation – Additional Information: Technical Section; Technical Explanations" | | |
| Ratings per | | ATEX: PTB 03 ATEX 1162 U / IECEx: PTB 03.0004U (Ex eb IIC Gb) | | |
| Rated voltage EN (Ex e II) | | 440 V | | |
| Rated current (Ex e II) | | 20 A | | |
| Rated current (Ex e II) with jumper | | 18 A | | |



| Power Loss | |
|--|-----------|
| Power loss, per pole (potential) | 0.7661 W |
| Rated current I _N for specified power loss | 24 A |
| Resistance value for specified, current-dependent power loss | 0.00133 Ω |

| Connection data | | | |
|-------------------------------|---|--|---|
| Connection points | 4 | Connection 1 | |
| Total number of potentials | 2 | Connection technology | Push-in CAGE CLAMP® |
| Number of levels | 2 | Number of connection points | 2 |
| Number of jumper slots | 4 | Actuation type | Operating tool |
| Number of jumper slots (rank) | 1 | Connectable conductor materials | Copper |
| | | Nominal cross-section | 2.5 mm² |
| | | Solid conductor | 0.25 ... 4 mm² / 22 ... 12 AWG |
| | | Solid conductor; push-in termination | 0.75 ... 4 mm² / 18 ... 12 AWG |
| | | Fine-stranded conductor | 0.25 ... 4 mm² / 22 ... 12 AWG |
| | | Fine-stranded conductor; with insulated ferrule | 0.25 ... 2.5 mm² / 22 ... 14 AWG |
| | | Fine-stranded conductor; with ferrule; push-in termination | 1 ... 2.5 mm² / 18 ... 14 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 | 10 ... 12 mm / 0.39 ... 0.47 inches |
| | | Wiring direction | Front-entry wiring |

| Connection 2 | |
|-------------------------------|---|
| Number of connection points 2 | 2 |

| Physical data | |
|-----------------------------------|------------------------|
| Width | 5.2 mm / 0.205 inches |
| Height | 69.7 mm / 2.744 inches |
| Depth from upper-edge of DIN-rail | 51.7 mm / 2.035 inches |

| Mechanical data | |
|-------------------|---------------------|
| Potential marking | L/L |
| Mounting type | DIN-35 rail |
| Marking level | Center/side marking |

| Material data | |
|-----------------------------|---|
| Note (material data) | Information on material specifications can be found here |
| Color | gray |
| Material group | I |
| Insulation material | Polyamide (PA66) |
| Flammability class per UL94 | V0 |
| Fire load | 0.204 MJ |
| Weight | 9.8 g |



| Environmental requirements | |
|----------------------------------|-----------------|
| Processing temperature | -35 ... +85 °C |
| Continuous operating temperature | -60 ... +105 °C |

| Commercial data | |
|-----------------------|---------------|
| Product Group | 22 (TOPJOB S) |
| eCl@ss 10.0 | 27-14-11-20 |
| eCl@ss 9.0 | 27-14-11-20 |
| ETIM 8.0 | EC000897 |
| ETIM 7.0 | EC000897 |
| PU (SPU) | 50 pcs |
| Packaging type | Box |
| Country of origin | DE |
| GTIN | 4044918753517 |
| Customs tariff number | 85369010000 |

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

| Approvals / Certificates | | |
|---------------------------------------|---------------|------------------|
| General approvals | | |
| | | |
| Approval | Standard | Certificate Name |
| CCA DEKRA Certification B.V. | EN 60947 | NTR NL 7941 |
| CSA DEKRA Certification B.V. | C22.2 No. 158 | 1536069 |
| KEMA/KEUR DEKRA Certification B.V. | EN 60947 | 71-124163 |
| UL Underwriters Laboratories Inc. | UL 1059 | E45172 |

| Declarations of conformity and manufacturer's declarations | | |
|--|----------|------------------|
| | | |
| Approval | Standard | Certificate Name |
| ATEX-Attestation of Conformity WAGO GmbH & Co. KG | - | - |
| EU-Declaration of Conformity WAGO GmbH & Co. KG | - | - |
| Railway WAGO GmbH & Co. KG | - | Railway Ready |
| UK-Declaration of Conformity WAGO GmbH & Co. KG | - | - |

| Approvals for marine applications | | |
|--|----------|------------------|
| | | |
| Approval | Standard | Certificate Name |
| ABS American Bureau of Shipping | EN 60947 | 20-HG1941090-PDA |
| DNV GL Det Norske Veritas, Germanischer Lloyd | - | TAE00001V2 |

| Approvals for hazardous areas | | |
|---|----------------|---|
| | | |
| Approval | Standard | Certificate Name |
| AEx Underwriters Laboratories Inc. | UL 60079 | E185892 (AEx eb IIC resp. Ex eb IIC) |
| ATEX Physikalisch Technische Bundesanstalt (PTB) | EN 60079 | PTB 03 ATEX 1162 U (II2G Ex eb IIC Gb, IM2 Ex eb IMb) |
| CCC CNEX | GB/T 3836.3 | 2020312313000238 (Ex eb IIC Gb, Ex eb I Mb) |
| EAC Brjansker Zertifizierungsstelle | TP TC 012/2011 | RU C-DE.AM02. B.00127/19 (Ex e IIC Gb U) |
| IECEx Physikalisch Technische Bundesanstalt | IEC 60079 | IECEx PTB 03.0004U (Ex eb IIC Gb or Ex eb I Mb) |



| Approvals for hazardous areas | | |
|---|-----------|---------------|
| INMETRO TÜV Rheinland do Brasil Ltda. | IEC 60079 | TÜV 12.1307 U |

| Downloads | |
|--|--|
| Environmental Product Compliance | |
| Compliance Search | |
| Environmental Product Compliance 2002-2201 | |

| Documentation | | | |
|------------------------|-------------------|------------|------------------|
| Additional Information | | Bid Text | |
| Technical Section | pdf 2142.18 KB | 2002-2201 | |
| | | 23.04.2019 | xml 4.22 KB |
| | | 2002-2201 | |
| | | 23.04.2019 | docx 15.03 KB |

| CAD/CAE-Data | |
|---------------------------|--------------------------------|
| CAD data | CAE data |
| 2D/3D Models 2002-2201 | EPLAN Data Portal 2002-2201 |
| | |
| | WSCAD Universe 2002-2201 |
| | |
| | ZUKEN Portal 2002-2201 |
| | |

| 1 Compatible Products | | | |
|---|---|---|---|
| 1.1 Required Accessories | | | |
| 1.1.1 End plate | | | |
| 1.1.1.1 End plate | | | |
| | | | |
| Item No.: 2002-2291 End and intermediate plate; 0.8 mm thick; gray | Item No.: 2002-2292 End and intermediate plate; 0.8 mm thick; orange | Item No.: 2002-2295 Separator plate; oversized upper deck; snap-fit type; 2 mm thick; gray | Item No.: 2002-2296 Separator plate; oversized upper deck; snap-fit type; 2 mm thick; 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; unslotted; 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 End plate

1.2.2.1 End plate



Item No.: 209-192
Separator for Ex e/Ex i applications; 3 mm thick; 125.5 mm wide; orange

1.2.3 Ferrule

1.2.3.1 Ferrule



Item No.: 216-241
Ferrule; Sleeve for 0.5 mm² / 20 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; white



Item No.: 216-242
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.: 216-262
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.: 216-243
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.: 216-263
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.: 216-244
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.: 216-264
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.: 216-246
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



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

1.2.4 Installation

1.2.4.1 Cover

**Item No.: 709-156**

Cover; Type 3; suitable for cover carrier, type 3; 1 m long; transparent

1.2.4.2 Cover carrier

**Item No.: 709-169**

Cover carrier; Type 3; gray

1.2.5 Insulation stop

1.2.5.1 Insulation stop

**Item No.: 2002-171**

Insulation stop; 0.25 - 0.5 mm²; 5 pieces/strip; light gray

**Item No.: 2002-172**

Insulation stop; 0.75 - 1 mm²; 5 pieces/strip; dark gray

1.2.6 Jumper

1.2.6.1 Jumper

**Item No.: 2002-400**

Continuous jumper; 2-way; insulated; light gray

**Item No.: 2002-423/000-006**

Continuous jumper; from 1 to 3; insulated; blue

**Item No.: 2002-423**

Continuous jumper; from 1 to 3; insulated; light gray

**Item No.: 2002-423/000-005**

Continuous jumper; from 1 to 3; insulated; red

**Item No.: 2002-424/000-006**

Continuous jumper; from 1 to 4; insulated; blue

**Item No.: 2002-424**

Continuous jumper; from 1 to 4; insulated; light gray

**Item No.: 2002-424/000-005**

Continuous jumper; from 1 to 4; insulated; red

**Item No.: 2002-406/020-000**

Delta jumper; insulated; light gray

**Item No.: 2002-410/000-006**

Jumper; 10-way; insulated; blue

**Item No.: 2002-410**

Jumper; 10-way; insulated; light gray

**Item No.: 2002-410/000-005**

Jumper; 10-way; insulated; red

**Item No.: 2002-402/000-006**

Jumper; 2-way; insulated; blue

**Item No.: 2002-402**

Jumper; 2-way; insulated; light gray

**Item No.: 2002-402/000-005**

Jumper; 2-way; insulated; red

**Item No.: 2002-403/000-006**

Jumper; 3-way; insulated; blue

**Item No.: 2002-403**

Jumper; 3-way; insulated; light gray

**Item No.: 2002-403/000-005**

Jumper; 3-way; insulated; red

**Item No.: 2002-404/000-006**

Jumper; 4-way; insulated; blue

**Item No.: 2002-404**

Jumper; 4-way; insulated; light gray

**Item No.: 2002-404/000-005**

Jumper; 4-way; insulated; red

**Item No.: 2002-405/000-006**

Jumper; 5-way; insulated; blue

**Item No.: 2002-405**

Jumper; 5-way; insulated; light gray

**Item No.: 2002-405/000-005**

Jumper; 5-way; insulated; red

**Item No.: 2002-406/000-006**

Jumper; 6-way; insulated; blue

**Item No.: 2002-406**

Jumper; 6-way; insulated; light gray

**Item No.: 2002-406/000-005**

Jumper; 6-way; insulated; red

**Item No.: 2002-407/000-006**

Jumper; 7-way; insulated; blue

**Item No.: 2002-407**

Jumper; 7-way; insulated; light gray

**Item No.: 2002-407/000-005**

Jumper; 7-way; insulated; red

**Item No.: 2002-408/000-006**

Jumper; 8-way; insulated; blue

**Item No.: 2002-408**

Jumper; 8-way; insulated; light gray

**Item No.: 2002-408/000-005**

Jumper; 8-way; insulated; red

1.2.6.1 Jumper



Item No.: 2002-409/000-006
Jumper; 9-way; insulated; blue



Item No.: 2002-409
Jumper; 9-way; insulated; light gray



Item No.: 2002-409/000-005
Jumper; 9-way; insulated; red



Item No.: 2002-440
Jumper; from 1 to 10; insulated; light gray



Item No.: 2002-433
Jumper; from 1 to 3; insulated; light gray



Item No.: 2002-434
Jumper; from 1 to 4; insulated; light gray



Item No.: 2002-435
Jumper; from 1 to 5; insulated; light gray



Item No.: 2002-436
Jumper; from 1 to 6; insulated; light gray



Item No.: 2002-437
Jumper; from 1 to 7; insulated; light gray



Item No.: 2002-438
Jumper; from 1 to 8; insulated; light gray



Item No.: 2002-439
Jumper; from 1 to 9; insulated; light gray



Item No.: 2002-480
Staggered jumper; 10-way; insulated; light gray



Item No.: 2002-481
Staggered jumper; 11-way; insulated; light gray



Item No.: 2002-482
Staggered jumper; 12-way; insulated; light gray



Item No.: 2002-473/011-000
Staggered jumper; 2-way; from 1 to 3; insulated; light gray



Item No.: 2002-472
Staggered jumper; 2-way; insulated; light gray



Item No.: 2002-473
Staggered jumper; 3-way; insulated; light gray



Item No.: 2002-475/011-000
Staggered jumper; 3-way; insulated; light gray



Item No.: 2002-474
Staggered jumper; 4-way; insulated; light gray



Item No.: 2002-475
Staggered jumper; 5-way; insulated; light gray



Item No.: 2002-476
Staggered jumper; 6-way; insulated; light gray



Item No.: 2002-477
Staggered jumper; 7-way; insulated; light gray



Item No.: 2002-478
Staggered jumper; 8-way; insulated; light gray



Item No.: 2002-479
Staggered jumper; 9-way; insulated; light gray



Item No.: 2002-477/011-000
Staggered jumper; insulated; light gray



Item No.: 2002-479/011-000
Staggered jumper; insulated; light gray



Item No.: 2002-481/011-000
Staggered jumper; insulated; light gray



Item No.: 2002-405/011-000
Star point jumper; 3-way; insulated; light gray



Item No.: 2002-492
Vertical jumper; insulated; light gray



Item No.: 2002-492/000-012
Vertical jumper; insulated; orange



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



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

1.2.7 Marking

1.2.7.1 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

1.2.7.2 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

1.2.7.2 Marker

**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.: 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

1.2.7.3 Marker carrier

**Item No.: 2002-121**

Adaptor; gray

**Item No.: 2002-161**

Adaptor; gray

**Item No.: 2009-198**

Adaptor; gray

1.2.7.4 Marking strip

**Item No.: 2009-110**

Marking strips; for Smart Printer; on reel; not stretchable; plain; snap-on type; white

1.2.8 Protective warning marker

1.2.8.1 Cover



Item No.: 2002-115
Protective warning marker; for 5 terminal blocks; with high-voltage symbol, black; yellow

1.2.9 Push-in type wire jumper

1.2.9.1 Jumper



Item No.: 2009-414
Push-in type wire jumper; 1.5 mm²; insulated; 110 mm long; black



Item No.: 2009-414/000-005
Push-in type wire jumper; 1.5 mm²; insulated; 110 mm long; black



Item No.: 2009-416
Push-in type wire jumper; 1.5 mm²; insulated; 250 mm long; black



Item No.: 2009-414/000-006
Push-in type wire jumper; insulated; 110 mm long; black



Item No.: 2009-412
Push-in type wire jumper; insulated; 60 mm long; black

1.2.10 Test and measurement

1.2.10.1 Testing accessories



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



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



Item No.: 2002-649
TOPJOB®S L-type spacer module; modular; e.g., for bridging commoned terminal blocks; gray



Item No.: 2002-611
TOPJOB®S L-type test plug module; modular; 1-pole; 2,50 mm²; gray

1.2.11 Tool

1.2.11.1 Operating tool



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



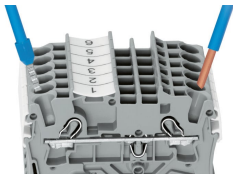
Item No.: 210-720
Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; multicoloured

Installation Notes

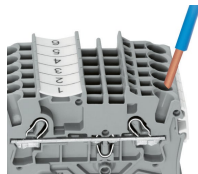
Conductor termination



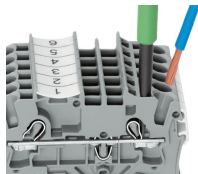
All conductor types at a glance



Push-in termination of solid and ferruled conductors

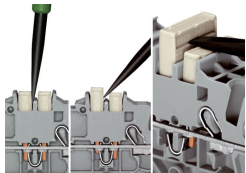


Inserting a conductor via push-in termination:
Solid conductors with cross-sections from either one size above, or up to two sizes below, the rated cross-section can be simply pushed in – no tools needed.

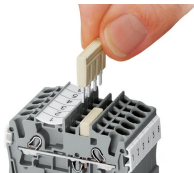


Inserting a conductor via operating tool:
Connecting fine-stranded conductors without ferrules, or small cross-sectional conductors that cannot be pushed in, is performed similarly to the original CAGE CLAMP® – just use an operating tool.
Advantage:
To open the clamp, the operating tool is inserted vertically. The conductor entry is less than 15 degrees for easier wiring.

Commoning

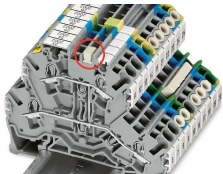


Removing a push-in type jumper bar:
Insert the operating tool between the jumper and partition wall of the dual jumper slots, then lift up the jumper.
Place the operating tool in the center of jumpers for up to five contacts (see above), or alternately on both sides for jumpers with more than five contacts.



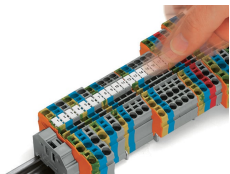
Insert push-in type jumper bar and push down until it hits backstop.

Commoning

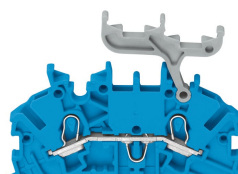
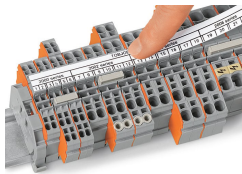


Commoning two levels via double-deck vertical jumper (2002-492).

Marking



Snapping WMB Inline markers into marker slots.



Double-deck terminal blocks
A double-deck marker carrier (2002-121) can be retrofitted to double-deck terminal blocks without a marker carrier.