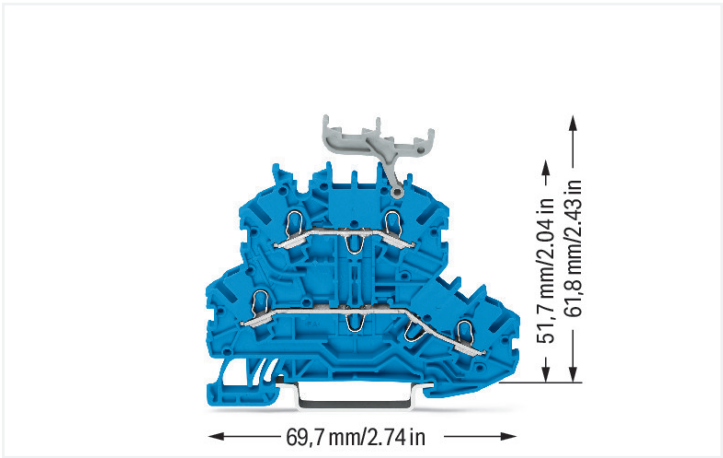


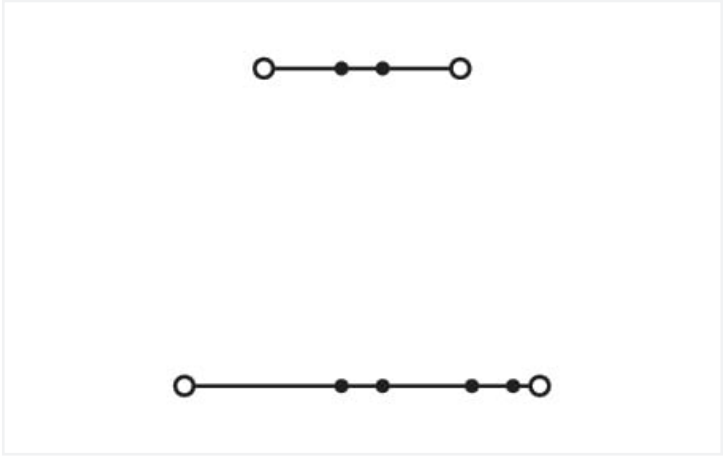
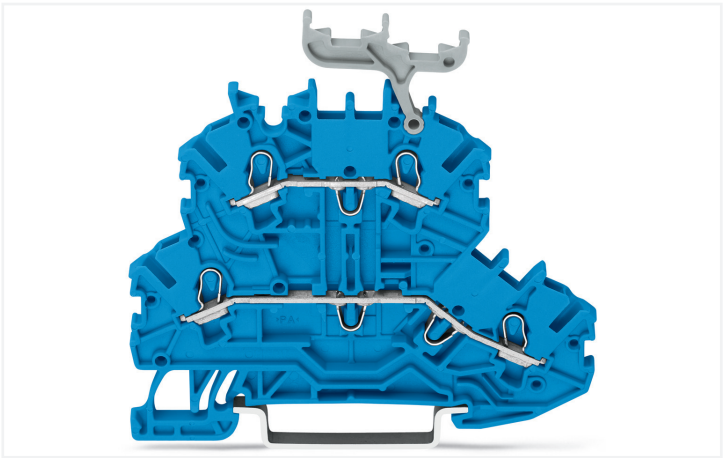
Data Sheet | Item Number: 2000-2234

Double-deck terminal block; Through/through terminal block; N/N; with marker carrier; suitable for Ex i applications; for DIN-rail 35 x 15 and 35 x 7.5; Push-in CAGE CLAMP®; 1,00 mm²; blue

<https://www.wago.com/2000-2234>



Color: ■ blue



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                                 |  | 13.5 A                                                                                              | -     | -  |
| Current at conductor cross-section (max.) mm² |  | 16 A                                                                                                | -     | -  |
| Approvals per                                 |  | UL 1059                                                                                             |       |    |
| Use group                                     |  | B                                                                                                   | C     | D  |
| Rated voltage                                 |  | 300 V                                                                                               | 300 V | -  |
| Rated current                                 |  | 15 A                                                                                                | 15 A  | -  |
| Approvals per                                 |  | CSA 22.2 No 158                                                                                     |       |    |
| Use group                                     |  | B                                                                                                   | C     | D  |
| Rated voltage                                 |  | 600 V                                                                                               | 600 V | -  |
| Rated current                                 |  | 10 A                                                                                                | 10 A  | -  |
| Ex information                                |  |                                                                                                     |       |    |
| Reference hazardous areas                     |  | See "Downloads – Documentation – Additional Information: Technical Section; Technical Explications" |       |    |
| Ratings per                                   |  | ATEX: PTB 11 ATEX 1041 U / IECEx: PTB 11.0093U (Ex eb IIC Gb)                                       |       |    |
| Rated voltage EN (Ex e II)                    |  | 350 V                                                                                               |       |    |
| Rated current (Ex e II)                       |  | 13 A                                                                                                |       |    |
| Rated current (Ex e II) with jumper           |  | 12 A                                                                                                |       |    |



| Power Loss                                                   |           |
|--------------------------------------------------------------|-----------|
| Power loss, per pole (potential)                             | 0.4338 W  |
| Rated current I <sub>N</sub> for specified power loss        | 13.5 A    |
| Resistance value for specified, current-dependent power loss | 0.00238 Ω |

| Connection data               |   |                                                            |                                                                                                                                   |
|-------------------------------|---|------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| Connection points             | 4 | <b>Connection 1</b>                                        |                                                                                                                                   |
| 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                                      | 1 mm²                                                                                                                             |
|                               |   | Solid conductor                                            | 0.14 ... 1.5 mm² / 24 ... 16 AWG                                                                                                  |
|                               |   | Solid conductor; push-in termination                       | 0.5 ... 1.5 mm² / 20 ... 16 AWG                                                                                                   |
|                               |   | Fine-stranded conductor                                    | 0.14 ... 1.5 mm² / 24 ... 16 AWG                                                                                                  |
|                               |   | Fine-stranded conductor; with insulated ferrule            | 0.14 ... 0.75 mm² / 24 ... 18 AWG                                                                                                 |
|                               |   | Fine-stranded conductor; with ferrule; push-in termination | 0.5 ... 0.75 mm² / 20 ... 18 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                                               | 9 ... 11 mm / 0.35 ... 0.43 inches                                                                                                |
|                               |   | Wiring direction                                           | Front-entry wiring                                                                                                                |

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

| Physical data                     |                        |
|-----------------------------------|------------------------|
| Width                             | 3.5 mm / 0.138 inches  |
| Height                            | 69.7 mm / 2.744 inches |
| Depth from upper-edge of DIN-rail | 61.8 mm / 2.433 inches |

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

| Material data               |                                                                                                                        |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------|
| Note (material data)        | <a href="https://www.wago.com/us/material-specifications">Information on material specifications can be found here</a> |
| Color                       | blue                                                                                                                   |
| Material group              | I                                                                                                                      |
| Insulation material         | Polyamide (PA66)                                                                                                       |
| Flammability class per UL94 | V0                                                                                                                     |
| Fire load                   | 0.175 MJ                                                                                                               |
| Weight                      | 7.7 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     | CN            |
| GTIN                  | 4055143267724 |
| Customs tariff number | 85369010000   |

| 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 7962      |
| CSA<br>DEKRA Certification B.V.       | C22.2    | 2130762          |
| KEMA/KEUR<br>DEKRA Certification B.V. | EN 60947 | 71-125928        |
| UL<br>Underwriters Laboratories Inc.  | UL 1059  | E45172           |

| Declarations of conformity and manufacturer's declarations |          |                  |
|------------------------------------------------------------|----------|------------------|
|                                                            |          |                  |
| Approval                                                   | Standard | Certificate Name |
| ATEX-Attestation of Con-<br>formity<br>WAGO GmbH & Co. KG  | -        | -                |
| EU-Declaration of Confor-<br>mity<br>WAGO GmbH & Co. KG    | -        | -                |
| Railway<br>WAGO GmbH & Co. KG                              | -        | Railway Ready    |
| UK-Declaration of Confor-<br>mity<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  | EN 60079       | PTB 11 ATEX 1041 U (II 2 G Ex eb IIC Gb bzw. I M 2 Ex eb I Mb) |
| CCC<br>CNEX                                    | GB/T 3836.3    | 2020312313000182 (Ex eb IIC Gb, Ex eb I Mb)                    |
| EAC<br>Brjansker Zertifizierungs-<br>stelle    | TP TC 012/2011 | RU C-DE.AM02.<br>B.00127/19 (Ex e IIC Gb U)                    |
| IECEx<br>Physikalisch Technische Bundesanstalt | IEC 60079      | IECEx PTB 11.0093U (Ex e IIC Gb or Ex e I Mb)                  |



Downloads

Environmental Product Compliance

Compliance Search

Environmental Product Compliance 2000-2234

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Documentation

Additional Information

Technical Section

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ZUKEN Portal 2000-2234

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1 Compatible Products

1.1 Required Accessories

1.1.1 End plate

1.1.1.1 End plate



Item No.: 2000-2291

End plate; 0.7 mm thick; gray

Item No.: 2000-2292

End plate; 0.7 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.: 210-197

Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; slotted; similar to EN 60715; silver-colored

Item No.: 210-114

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.: 210-113

Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; unslotted; according to EN 60715; silver-colored



1.2.2 Ferrule

1.2.2.1 Ferrule



**Item No.: 216-241**  
Ferrule; Sleeve for 0.5 mm<sup>2</sup> / 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 mm<sup>2</sup> / 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 mm<sup>2</sup> / AWG 18; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; red

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 Jumper

1.2.4.1 Jumper



**Item No.: 2000-406/020-000**  
Delta jumper; insulated; light gray



**Item No.: 2000-410/000-006**  
Jumper; 10-way; insulated; blue



**Item No.: 2000-410**  
Jumper; 10-way; insulated; light gray



**Item No.: 2000-410/000-005**  
Jumper; 10-way; insulated; red



**Item No.: 2000-402/000-006**  
Jumper; 2-way; insulated; blue



**Item No.: 2000-402**  
Jumper; 2-way; insulated; light gray



**Item No.: 2000-402/000-005**  
Jumper; 2-way; insulated; red



**Item No.: 2000-402/000-018**  
Jumper; 2-way; insulated; yellow-green



**Item No.: 2000-403/000-006**  
Jumper; 3-way; insulated; blue



**Item No.: 2000-403**  
Jumper; 3-way; insulated; light gray



**Item No.: 2000-403/000-005**  
Jumper; 3-way; insulated; red



**Item No.: 2000-404/000-006**  
Jumper; 4-way; insulated; blue



**Item No.: 2000-404**  
Jumper; 4-way; insulated; light gray



**Item No.: 2000-404/000-005**  
Jumper; 4-way; insulated; red



**Item No.: 2000-405/000-006**  
Jumper; 5-way; insulated; blue



**Item No.: 2000-405**  
Jumper; 5-way; insulated; light gray



**Item No.: 2000-405/000-005**  
Jumper; 5-way; insulated; red



**Item No.: 2000-406/000-006**  
Jumper; 6-way; insulated; blue



**Item No.: 2000-406**  
Jumper; 6-way; insulated; light gray



**Item No.: 2000-406/000-005**  
Jumper; 6-way; insulated; red



**Item No.: 2000-407/000-006**  
Jumper; 7-way; insulated; blue



**Item No.: 2000-407**  
Jumper; 7-way; insulated; light gray



**Item No.: 2000-407/000-005**  
Jumper; 7-way; insulated; red



**Item No.: 2000-408/000-006**  
Jumper; 8-way; insulated; blue



1.2.4.1 Jumper

|                                                                                                                                                               |                                                                                                                                                               |                                                                                                                                                                |                                                                                                                                                                             |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <br><b>Item No.: 2000-408</b><br>Jumper; 8-way; insulated; light gray        | <br><b>Item No.: 2000-408/000-005</b><br>Jumper; 8-way; insulated; red       | <br><b>Item No.: 2000-409/000-006</b><br>Jumper; 9-way; insulated; blue      | <br><b>Item No.: 2000-409</b><br>Jumper; 9-way; insulated; light gray                    |
| <br><b>Item No.: 2000-409/000-005</b><br>Jumper; 9-way; insulated; red       | <br><b>Item No.: 2000-440</b><br>Jumper; from 1 to 10; insulated; light gray | <br><b>Item No.: 2000-433/000-006</b><br>Jumper; from 1 to 3; insulated; blue | <br><b>Item No.: 2000-433</b><br>Jumper; from 1 to 3; insulated; light gray              |
| <br><b>Item No.: 2000-433/000-005</b><br>Jumper; from 1 to 3; insulated; red | <br><b>Item No.: 2000-434</b><br>Jumper; from 1 to 4; insulated; light gray  | <br><b>Item No.: 2000-435</b><br>Jumper; from 1 to 5; insulated; light gray   | <br><b>Item No.: 2000-436</b><br>Jumper; from 1 to 6; insulated; light gray              |
| <br><b>Item No.: 2000-437</b><br>Jumper; from 1 to 7; insulated; light gray  | <br><b>Item No.: 2000-438</b><br>Jumper; from 1 to 8; insulated; light gray  | <br><b>Item No.: 2000-439</b><br>Jumper; from 1 to 9; insulated; light gray   | <br><b>Item No.: 2000-405/011-000</b><br>Star point jumper; 3-way; insulated; light gray |
| <br><b>Item No.: 2000-492</b><br>Vertical jumper; insulated; light gray      | <br><b>Item No.: 210-103</b><br>Wire commoning chain; insulated; black       | <br><b>Item No.: 210-123</b><br>Wire commoning chain; insulated; blue        |                                                                                                                                                                             |

1.2.5 Marking

1.2.5.1 Marker

|                                                                                                                                                                                                                  |                                                                                                                                                                                                             |                                                                                                                                                                                                            |                                                                                                                                                                                                               |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <br><b>Item No.: 793-3501</b><br>WMB marking card; as card; plain; snap-on type; white                                        | <br><b>Item No.: 2009-113/000-006</b><br>WMB-Inline; for Smart Printer; 2300 pieces on roll; plain; snap-on type; blue   | <br><b>Item No.: 2009-113/000-007</b><br>WMB-Inline; for Smart Printer; 2300 pieces on roll; plain; snap-on type; gray | <br><b>Item No.: 2009-113/000-023</b><br>WMB-Inline; for Smart Printer; 2300 pieces on roll; plain; snap-on type; green  |
| <br><b>Item No.: 2009-113/000-017</b><br>WMB-Inline; for Smart Printer; 2300 pieces on roll; plain; snap-on type; light green | <br><b>Item No.: 2009-113/000-012</b><br>WMB-Inline; for Smart Printer; 2300 pieces on roll; plain; snap-on type; orange | <br><b>Item No.: 2009-113/000-005</b><br>WMB-Inline; for Smart Printer; 2300 pieces on roll; plain; snap-on type; red  | <br><b>Item No.: 2009-113/000-024</b><br>WMB-Inline; for Smart Printer; 2300 pieces on roll; plain; snap-on type; violet |
| <br><b>Item No.: 2009-113</b><br>WMB-Inline; for Smart Printer; 2300 pieces on roll; plain; snap-on type; white               | <br><b>Item No.: 2009-113/000-002</b><br>WMB-Inline; for Smart Printer; 2300 pieces on roll; plain; snap-on type; yellow |                                                                                                                                                                                                            |                                                                                                                                                                                                               |

1.2.5.2 Marking strip

|                                                                                                                                                                                                             |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <br><b>Item No.: 2009-110</b><br>Marking strips; for Smart Printer; on reel; not stretchable; plain; snap-on type; white |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

1.2.6 Protective warning marker

1.2.6.1 Cover



**Item No.: 2000-115**  
Protective warning marker; for 5 terminal blocks; with high-voltage symbol, black; yellow

1.2.7 Push-in type wire jumper

1.2.7.1 Jumper



**Item No.: 2009-404**  
Push-in type wire jumper; 0.75 mm<sup>2</sup>; insulated; 110 mm long; gray



**Item No.: 2009-406**  
Push-in type wire jumper; 0.75 mm<sup>2</sup>; insulated; 250 mm long; gray



**Item No.: 2009-402**  
Push-in type wire jumper; 0.75 mm<sup>2</sup>; insulated; 60 mm long; gray

1.2.8 Screwless end stop

1.2.8.1 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

1.2.9 Test and measurement

1.2.9.1 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 mm<sup>2</sup>; tool-free connection for individual test wires 0.08 - 2.5 mm; gray

1.2.10 Tool

1.2.10.1 Operating tool



**Item No.: 210-719**  
Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft



**Item No.: 210-648**  
Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft; angled; short



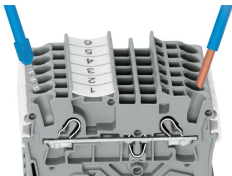
**Item No.: 210-647**  
Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft; multicoloured

Installation Notes

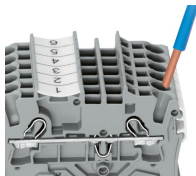
Conductor termination



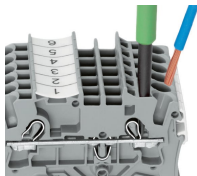
**All conductor types at a glance**



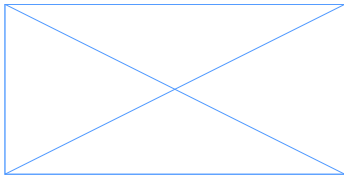
Push-in termination of solid and ferruled conductors



**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.

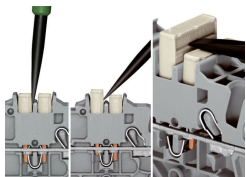


**Inserting a conductor via operating tool:**  
Connecting fine-stranded conductors without ferrules, or small cross-sectional conductors that cannot be pushed in, is performed similarly to the original CAGE CLAMP® – just use an operating tool.  
**Advantage:**  
To open the clamp, the operating tool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

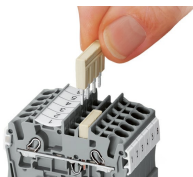


Conductor termination – insulation stop

Commoning

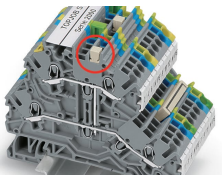


**Removing a push-in type jumper bar:**  
Insert the operating tool between the jumper and partition wall of the dual jumper slots, then lift up the jumper.  
Place the operating tool in the center of jumpers for up to five contacts (see above), or alternately on both sides for jumpers with more than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



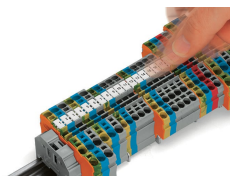
Insert push-in type jumper bar and push down until it hits backstop.

Commoning

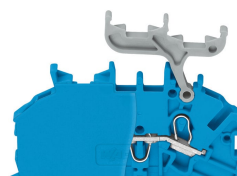
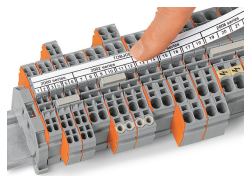


Commoning two levels via double-deck vertical jumper (2000-492).

## Marking



Snapping WMB Inline markers into marker slots.

**Double-Deck Terminal Blocks**

A double-deck marker carrier (2000-121) can be retrofitted to double-deck terminal blocks without a marker carrier.