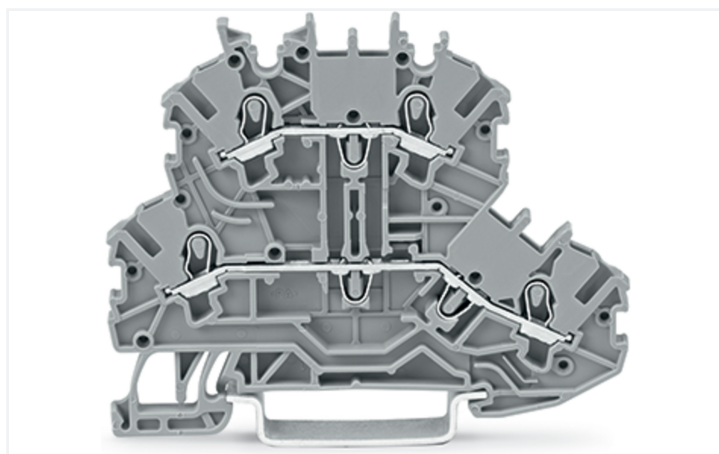
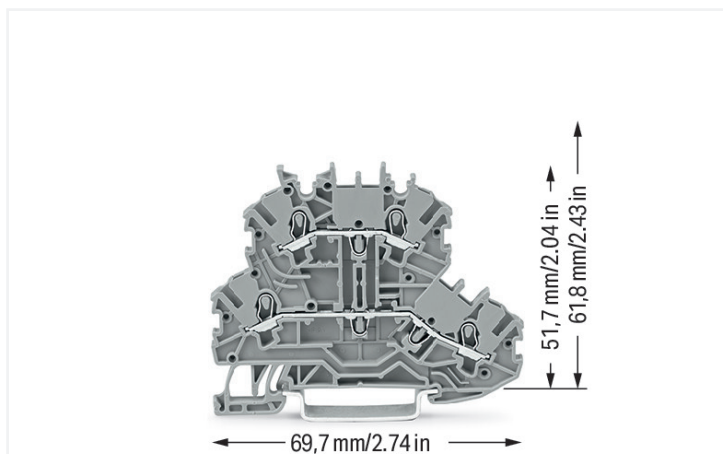


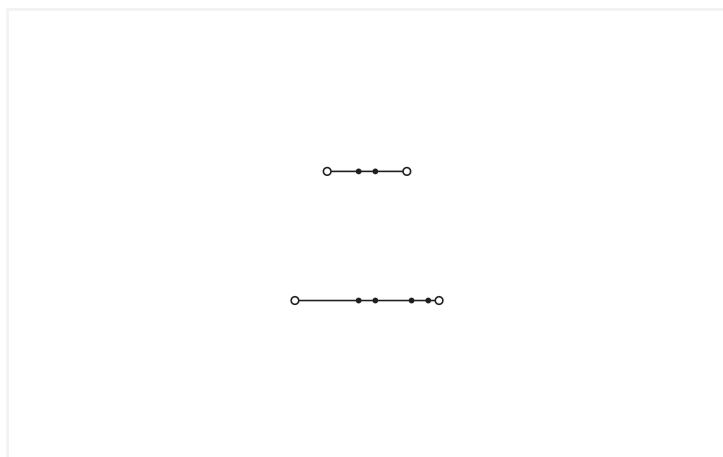
Data Sheet | Item Number: 2000-2201

Double-deck terminal block; Through/through terminal block; L/L; without marker carrier; for DIN-rail 35 x 15 and 35 x 7.5; Push-in CAGE CLAMP®; 1,00 mm²; gray

<https://www.wago.com/2000-2201>



Color: ■ gray



Similar to illustration

Double-deck terminal block, 2000 Series, gray

Our double-deck terminal block (item number 2000-2201) is designed for seamless electrical installations. Strip lengths must be between 9 and 11 mm when connecting conductors to this double-deck terminal block. The double-deck terminal block also functions as a through terminal block. Featuring conductor terminals along with Push-in CAGE CLAMP®, this connector outperforms the competition. Push-in CAGE CLAMP® connection technology is ideal for connecting all conductor types. It allows direct insertion of both solid and fine-stranded conductors with ferrules without the need for tools—all thanks to its pluggable design. Depending on the conductor type, this double-deck terminal block is ideal for conductor cross sections ranging from 0.14 mm² to 1.5 mm².

This product is designed for specific Ex applications (please refer to the product datasheet).

Electrical data

| Ratings per | IEC/EN 60947-7-1 | | |
|-----------------------------------------------------------|------------------|-----|----|
| Overvoltage category | III | III | II |
| Pollution degree | 3 | 2 | 2 |
| Nominal voltage | 500 V | - | - |
| Rated impulse withstand voltage | 6 kV | - | - |
| Rated current | 13.5 A | - | - |
| Current at conductor cross-section (max.) mm ² | 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 to hazardous areas | See "Downloads – Documentation – Additional Information: Technical Section; Technical Explanations" |
| 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_N for power loss specification | 13.5 A |
| Resistance value for specified, current-dependent power loss | 0.00238 Ω |

General information

| | |
|------------------|--------------------|
| Wiring direction | Front-entry wiring |
|------------------|--------------------|

Connection Data

| | |
|----------------------------|---|
| Clamping units | 4 |
| Total number of potentials | 2 |
| Number of levels | 2 |
| Number of jumper slots | 4 |

| Connection 1 | |
|------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| Connection technology | Push-in CAGE CLAMP® |
| Number of connection points | 2 |
| Actuation type | Operating tool |
| Connectable conductor materials | Copper |
| Nominal cross-section | 1 mm ² |
| Solid conductor | 0.14 ... 1.5 mm ² / 24 ... 16 AWG |
| Solid conductor; push-in termination | 0.5 ... 1.5 mm ² / 20 ... 16 AWG |
| Fine-stranded conductor | 0.14 ... 1.5 mm ² / 24 ... 16 AWG |
| Fine-stranded conductor; with insulated ferrule | 0.14 ... 0.75 mm ² / 24 ... 18 AWG |
| Fine-stranded conductor; with ferrule; push-in termination | 0.5 ... 0.75 mm ² / 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 |
|-----------------------------|---|

Physical data

| | |
|-----------------------------------|------------------------|
| Width | 3.5 mm / 0.138 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 (main housing) | Polyamide (PA66) |
| Flammability class per UL94 | V0 |
| Fire load | 0.132 MJ |
| Weight | 7.3 g |

Environmental requirements

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

Environmental Testing

| | |
|-----------------------------------------------------------------------------------------------------|-----------------------------------------------------|
| Test specification: Railway applications – Rolling stock – Electronic equipment | DIN EN 50155 (VDE 0115-200):2022-06 |
| Test procedure: Railway applications – Rolling stock equipment – Vibration and shock tests | DIN EN 61373 (VDE 0115-0106):2011-04 |
| Spectrum/Mounting location | Service life test, Category 1, Class A/B |
| Functional test with noise-like oscillations | Test passed according to Section 8 of the standard |
| Frequency | $f_1 = 5 \text{ Hz}$ to $f_2 = 150 \text{ Hz}$ |
| Acceleration | 0.101g (highest test level used for all axes) |
| Test duration per axis | 10 min. |
| Test directions | X, Y and Z axes |
| Monitoring of contact faults and interruptions | Passed |
| Voltage drop measurement before and after each axis | Passed |
| Simulated service life test through increased levels of noise-like oscillations | Test passed according to Section 9 of the standard |
| Frequency | $f_1 = 5 \text{ Hz}$ to $f_2 = 150 \text{ Hz}$ |
| Acceleration | 0.572g (highest test level used for all axes) |
| Test duration per axis | 5 h |
| Test directions | X, Y and Z axes |
| Extended testing: Monitoring of contact faults and interruptions | Passed |
| Extended testing: Voltage drop measurement before and after each axis | Passed |
| Shock test | Test passed according to Section 10 of the standard |
| Shock pulse form | Half sine |
| Acceleration | 5g (highest test level used for all axes) |
| Shock duration | 30 ms |
| Number of shocks (per axis) | 3 pos. und 3 neg. |

| Environmental Testing | |
|-----------------------------------------------------------------------|-----------------|
| Test directions | X, Y and Z axes |
| Extended testing: Monitoring of contact faults and interruptions | Passed |
| Extended testing: Voltage drop measurement before and after each axis | Passed |
| Vibration and shock stress for rolling stock equipment | Passed |

| Commercial data | |
|-----------------------|---------------|
| PU (SPU) | 50 pcs |
| Packaging type | Box |
| Country of origin | CN |
| GTIN | 4050821891703 |
| Customs tariff number | 85369010000 |

| Product Classification | |
|------------------------|----------------------|
| UNSPSC | 39121410 |
| eCl@ss 10.0 | 27-14-11-20 |
| eCl@ss 9.0 | 27-14-11-20 |
| 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 DEKRA Certification B.V. | EN 60947 | NTR NL 7962 |
| CSA DEKRA Certification B.V. | C22.2 | 2130762 |
| KEMA/KEUR DEKRA Certification B.V. | EN 60947 | 71-125928 |
| 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 hazardous areas



| Approval | Standard | Certificate Name |
|---------------------------------------------------|-------------|----------------------------------------------------------------------|
| AEx Underwriters Laboratories Inc. | UL 60079 | E185892 (AEx eb IIC resp. Ex eb IIC) |
| ATEX 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 CNEX | GB/T 3836.3 | 2020312313000182 (Ex eb IIC Gb, Ex eb I Mb) |
| IECEX 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 2000-2201 | ↓ |

Documentation

| Bid Text | | | |
|-----------|------------|------------------|-------------------|
| 2000-2201 | 19.02.2019 | xml 3.80 KB | ↓ |
| 2000-2201 | 07.08.2018 | docx 14.61 KB | ↓ |

CAD/CAE-Data

| CAD data | |
|---------------------------|-------------------|
| 2D/3D Models 2000-2201 | ↓ |

| CAE data | |
|--------------------------------|-------------------|
| EPLAN Data Portal 2000-2201 | ↓ |
| WSCAD Universe 2000-2201 | ↓ |
| ZUKEN Portal 2000-2201 | ↓ |

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 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.: 216-243

Ferrule; Sleeve for 1 mm² / AWG 18; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; red

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



Item No.: 2000-408
 Jumper; 8-way; insulated; light gray



Item No.: 2000-408/000-005
 Jumper; 8-way; insulated; red



Item No.: 2000-409/000-006
 Jumper; 9-way; insulated; blue



Item No.: 2000-409
 Jumper; 9-way; insulated; light gray



Item No.: 2000-409/000-005
 Jumper; 9-way; insulated; red



Item No.: 2000-440
 Jumper; from 1 to 10; insulated; light gray



Item No.: 2000-433/000-006
 Jumper; from 1 to 3; insulated; blue



Item No.: 2000-433
 Jumper; from 1 to 3; insulated; light gray



Item No.: 2000-433/000-005
 Jumper; from 1 to 3; insulated; red



Item No.: 2000-434
 Jumper; from 1 to 4; insulated; light gray



Item No.: 2000-435
 Jumper; from 1 to 5; insulated; light gray



Item No.: 2000-436
 Jumper; from 1 to 6; insulated; light gray



Item No.: 2000-437
 Jumper; from 1 to 7; insulated; light gray



Item No.: 2000-438
 Jumper; from 1 to 8; insulated; light gray



Item No.: 2000-439
 Jumper; from 1 to 9; insulated; light gray



Item No.: 2000-405/011-000
 Star point jumper; 3-way; insulated; light gray



Item No.: 2000-492
 Vertical jumper; insulated; light gray



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



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

1.2.5 Marking

1.2.5.1 Marker



Item No.: 793-3501

WMB marking card; as card; plain; snap-on type; white



Item No.: 2009-113/000-006

WMB-Inline; for Smart Printer; 2300 pieces on roll; plain; snap-on type; blue



Item No.: 2009-113/000-007

WMB-Inline; for Smart Printer; 2300 pieces on roll; plain; snap-on type; gray



Item No.: 2009-113/000-023

WMB-Inline; for Smart Printer; 2300 pieces on roll; plain; snap-on type; green



Item No.: 2009-113/000-017

WMB-Inline; for Smart Printer; 2300 pieces on roll; plain; snap-on type; light green



Item No.: 2009-113/000-012

WMB-Inline; for Smart Printer; 2300 pieces on roll; plain; snap-on type; orange



Item No.: 2009-113/000-005

WMB-Inline; for Smart Printer; 2300 pieces on roll; plain; snap-on type; red



Item No.: 2009-113/000-024

WMB-Inline; for Smart Printer; 2300 pieces on roll; plain; snap-on type; violet



Item No.: 2009-113

WMB-Inline; for Smart Printer; 2300 pieces on roll; plain; snap-on type; white



Item No.: 2009-113/000-002

WMB-Inline; for Smart Printer; 2300 pieces on roll; plain; snap-on type; yellow

1.2.5.2 Marker carrier



Item No.: 2000-121

Adaptor; gray

1.2.5.3 Marking strip



Item No.: 2009-110

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 mm²; insulated; 110 mm long; gray



Item No.: 2009-406

Push-in type wire jumper; 0.75 mm²; insulated; 250 mm long; gray



Item No.: 2009-402

Push-in type wire jumper; 0.75 mm²; 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 mm²; 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

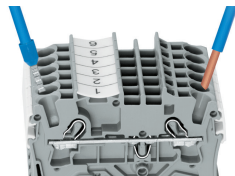
Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft; multicoloured

Installation Notes

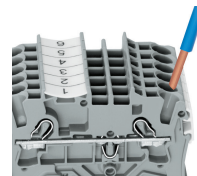
Conductor termination



All conductor types at a glance

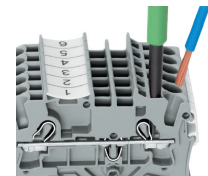


Push-in termination of solid and ferruled conductors



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.

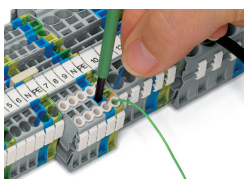


Inserting a conductor via operating tool:

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.

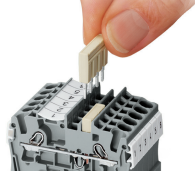
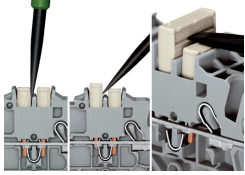
Advantage:

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

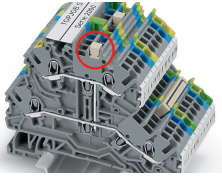
Commoning



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.

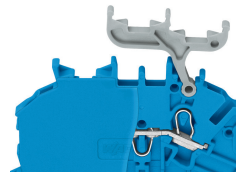
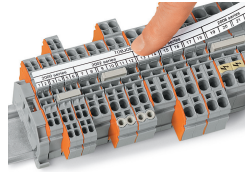
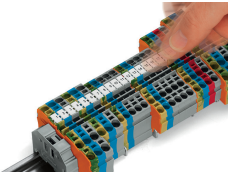
Insert push-in type jumper bar and push down until it hits backstop.

Commoning



Commoning two levels via double-deck vertical jumper (Item No. 2000-492).

Marking



Snapping WMB Inline markers into marker slots.

Double-Deck Terminal Blocks
 A double-deck marker carrier (Item No. 2000-121) can be retrofitted to double-deck terminal blocks without a marker carrier.