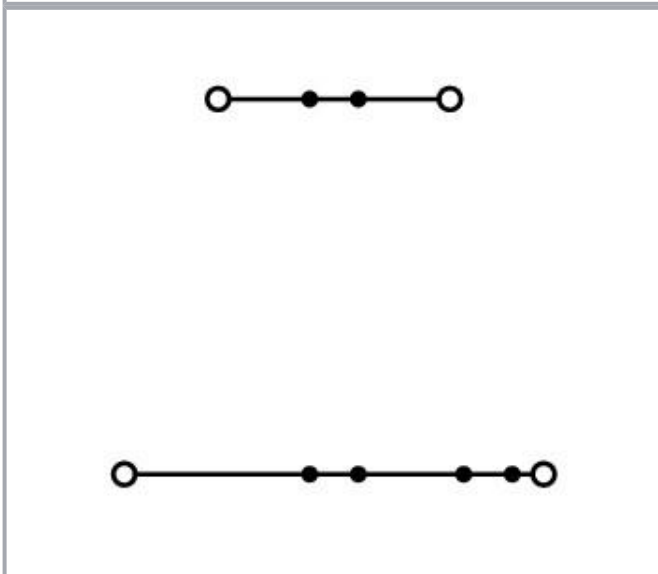
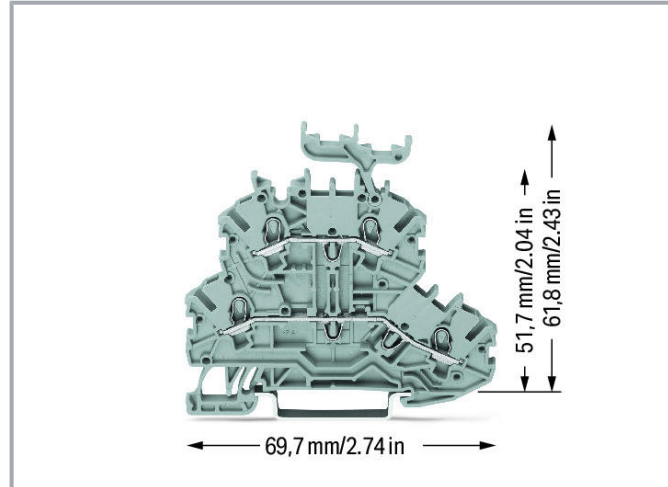
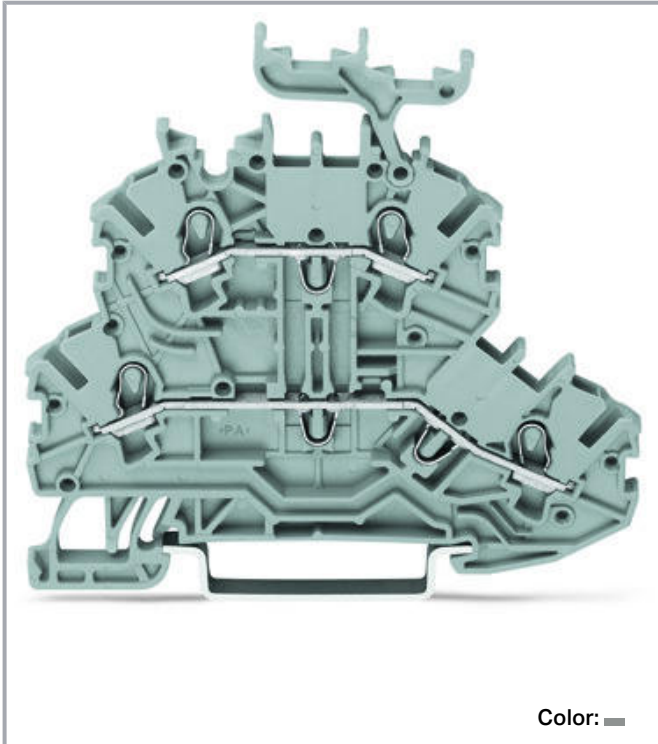


Data sheet | Item number: 2000-2231

Double-deck terminal block; Through/through terminal block; L/L; with marker carrier; for DIN-rail 35 x 15 and 35 x 7.5; Push-in CAGE CLAMP®; 1,00 mm²; gray



www.wago.com/2000-2231



Subject to changes. Please also observe the further product documentation!

WAGO Kontakttechnik GmbH & Co. KG
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32423 Minden
Phone: +49571 887-0 | Fax: +49571 887-169
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Do you have any questions about our products?
We are always happy to take your call at +49 (571) 887-44222.



Data

Electrical data

Ratings per IEC/EN

| | |
|-----------------------------|---|
| Ratings per | IEC/EN 60947-7-1 |
| Nominal voltage (III/3) | 500 V |
| Rated surge voltage (III/3) | 6 kV |
| Rated current | 13.5 A |
| Rated current 2 | 16 A |
| Legend (ratings) | (III / 3) ≙ Overvoltage category III / Pollution degree 3 |

Ratings per UL

| | |
|--------------------------------|---------|
| Approvals per | UL 1059 |
| Rated voltage UL (Use Group B) | 300 V |
| Rated current UL (Use Group B) | 15 A |
| Rated voltage UL (Use Group C) | 300 V |
| Rated current UL (Use Group C) | 15 A |

Ratings per CSA

| | |
|---------------------------------|--------------|
| Approvals per | C22.2 No 158 |
| Rated voltage CSA (Use Group B) | 600 V |
| Rated current CSA (Use Group B) | 10 A |
| Rated voltage CSA (Use Group C) | 600 V |
| Rated current CSA (Use Group C) | 10 A |

Ex information

| | |
|-------------------------------------|---|
| 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 |

Connection data

| | |
|-----------------------------------|---|
| Total number of connection points | 4 |
| Total number of potentials | 2 |
| Number of levels | 2 |
| Number of jumper slots | 4 |

Subject to changes. Please also observe the further product documentation!

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Do you have any questions about our products?
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Connection 1

| | |
|--|---|
| Connection technology | Push-in CAGE CLAMP® |
| Number of connection points | 2 |
| Actuation type | Push-in 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. |
| Conductor diameter | 24 ... 16 AWG |
| Strip length | 9 ... 11 mm / 0.35 ... 0.43 inch |
| Wiring direction | Front-entry wiring |

Connection 2

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

Physical data

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

Mechanical data

| | |
|------------------------|---------------------|
| Potentialkennzeichnung | L/L |
| Design | horizontal type |
| Mounting type | DIN-35 rail |
| Marking level | Center/side marking |

Material data

| | |
|-----------------------------|------------------|
| Color | gray |
| Insulation material | Polyamide (PA66) |
| Flammability class per UL94 | V0 |

Subject to changes. Please also observe the further product documentation!



| | |
|-----------|----------|
| Fire load | 0.162 MJ |
| Weight | 7.7 g |

Commercial data


| | |
|-----------------------|---------------|
| Product Group | 22 (TOPJOB S) |
| PU (SPU) | 50 Stück |
| Packaging type | box |
| Country of origin | DE |
| GTIN | 4045454998134 |
| Customs tariff number | 85369010000 |

Approvals / Certificates


Ex-Approvals

| Logo | Approval | Additional Approval Text | Certificate name |
|--|---|--------------------------|---|
|  | AEx Underwriters Laboratories Inc. | UL 60079 | E185892 |
|  | 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) |
|  | CCCEX CQST/CNEx | CNCA-C23-01 | 2020312313000182 |
|  | EAC Brjansker Zertifizierungsstelle | TP TC 012/2011 | RU C-DE.AM02.B. 00127/19 |
|  | IECEX Physikalisch Technische Bundesanstalt | IEC 60079 | IECEX PTB 11.0093 U (Ex e IIC Gb or Ex e I Mb) |


Country specific Approvals

| Logo | Approval | Additional Approval Text | Certificate name |
|--|--|--------------------------|------------------|
|  | CCA DEKRA Certification B.V. | EN 60947 | 71- 102841 |

Subject to changes. Please also observe the further product documentation!



| | | | |
|--|--|----------|----------------|
|  | CCA DEKRA Certification B.V. | EN 60947 | NTR NL 7671 |
|--|--|----------|----------------|

UL-Approvals

| Logo | Approval | Additional Approval Text | Certificate name |
|--|---|--------------------------|---------------------|
|  | UL Underwriters Laboratories Inc. | UL 1059 | 20190930- E45172 |




Required accessories

End plate



| End plate | Item no.: 2000-2292 | www.wago.com/2000-2292 |
|---|---|------------------------|
|  | End plate; 0.7 mm thick; orange | |
|  | Item no.: 2000-2291 End plate; 0.7 mm thick; gray | www.wago.com/2000-2291 |

Optional accessories


Push-in type wire jumper

| Jumper | Item no.: 2009-404 | www.wago.com/2009-404 |
|--|--|-----------------------|
|  | Push-in type wire jumper; 0.75 mm ² ; insulated; 110 mm long; gray | |
|  | Item no.: 2009-402 Push-in type wire jumper; 0.75 mm ² ; insulated; 60 mm long; gray | www.wago.com/2009-402 |
|  | Item no.: 2009-406 Push-in type wire jumper; 0.75 mm ² ; insulated; 250 mm long; gray | www.wago.com/2009-406 |


Tool


| Operating tool | Item no.: 210-648 | www.wago.com/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 | www.wago.com/210-647 |

Subject to changes. Please also observe the further product documentation!

| | | |
|---|---|--|
|  | Item no.: 210-719 Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft | www.wago.com/210-719 |
|---|---|--|


Testing and measuring


| | | |
|---|--|--|
| Testing accessories | | |
|  | Item no.: 2009-174 Test plug adapter; for 4 mm Ø test plugs; for testing TOPJOB®S rail-mounted terminal blocks; gray | www.wago.com/2009-174 |


| | | |
|--|---|--|
|  | Item no.: 2009-182 Testing tap; for max. 2.5 mm ² ; tool-free connection for individual test wires 0.08 - 2.5 mm; gray | www.wago.com/2009-182 |
|--|---|--|


Carrier rail


Mounting accessories


| | | |
|--|--|--|
|  | 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 | www.wago.com/210-197 |
|--|--|--|


| | | |
|--|---|--|
|  | 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 | www.wago.com/210-198 |
|--|---|--|


| | | |
|--|---|--|
|  | 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 | www.wago.com/210-113 |
|--|---|--|

| | | |
|---|--|--|
|  | 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 | www.wago.com/210-118 |
|---|--|--|

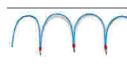
| | | |
|--|--|--|
|  | Item no.: 210-112 Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; slotted; according to EN 60715; "Hole width 25 mm; silver-colored | www.wago.com/210-112 |
|--|--|--|

| | | |
|--|--|--|
|  | 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 | www.wago.com/210-114 |
|--|--|--|

| | | |
|--|--|--|
|  | 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 | www.wago.com/210-115 |
|--|--|--|

| | | |
|--|--|--|
|  | 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 | www.wago.com/210-196 |
|--|--|--|















Jumpers

| | | |
|--|---|--|
| Jumper | | |
|  | Item no.: 210-123 Wire commoning chain; insulated; blue | www.wago.com/210-123 |

| | | |
|---|---|--|
|  | Item no.: 2000-408 Jumper; 8-way; insulated; light gray | www.wago.com/2000-408 |
|---|---|--|

| | | |
|---|---|--|
|  | Item no.: 2000-407 Jumper; 7-way; insulated; light gray | www.wago.com/2000-407 |
|---|---|--|

Subject to changes. Please also observe the further product documentation!

| | | |
|--|---|--|
|  | Item no.: 2000-409 Jumper; 9-way; insulated; light gray | www.wago.com/2000-409 |
|  | Item no.: 2000-408/000-006 Jumper; 8-way; insulated; blue | www.wago.com/2000-408/000-006 |
|  | Item no.: 2000-408/000-005 Jumper; 8-way; insulated; red | www.wago.com/2000-408/000-005 |
|  | Item no.: 2000-409/000-005 Jumper; 9-way; insulated; red | www.wago.com/2000-409/000-005 |
|  | Item no.: 2000-407/000-006 Jumper; 7-way; insulated; blue | www.wago.com/2000-407/000-006 |
|  | Item no.: 2000-410 Jumper; 10-way; insulated; light gray | www.wago.com/2000-410 |
|  | Item no.: 2000-410/000-006 Jumper; 10-way; insulated; blue | www.wago.com/2000-410/000-006 |
|  | Item no.: 2000-433/000-005 Jumper; from 1 to 3; insulated; red | www.wago.com/2000-433/000-005 |
|  | Item no.: 2000-407/000-005 Jumper; 7-way; insulated; red | www.wago.com/2000-407/000-005 |
|  | Item no.: 2000-433/000-006 Jumper; from 1 to 3; insulated; blue | www.wago.com/2000-433/000-006 |
|  | Item no.: 2000-410/000-005 Jumper; 10-way; insulated; red | www.wago.com/2000-410/000-005 |
|  | Item no.: 2000-435 Jumper; from 1 to 5; insulated; light gray | www.wago.com/2000-435 |
|  | Item no.: 2000-409/000-006 Jumper; 9-way; insulated; blue | www.wago.com/2000-409/000-006 |
|  | Item no.: 2000-436 | |

Subject to changes. Please also observe the further product documentation!

| | | |
|---|--|--|
| | Jumper; from 1 to 6; insulated; light gray | www.wago.com/2000-436 |
|  | Item no.: 2000-433 Jumper; from 1 to 3; insulated; light gray | www.wago.com/2000-433 |
|  | Item no.: 2000-434 Jumper; from 1 to 4; insulated; light gray | www.wago.com/2000-434 |
|  | Item no.: 2000-402 Jumper; 2-way; insulated; light gray | www.wago.com/2000-402 |
|  | Item no.: 2000-402/000-006 Jumper; 2-way; insulated; blue | www.wago.com/2000-402/000-006 |
|  | Item no.: 2000-403 Jumper; 3-way; insulated; light gray | www.wago.com/2000-403 |
|  | Item no.: 2000-402/000-005 Jumper; 2-way; insulated; red | www.wago.com/2000-402/000-005 |
|  | Item no.: 2000-402/000-018 Jumper; 2-way; insulated; yellow-green | www.wago.com/2000-402/000-018 |
|  | Item no.: 2000-404 Jumper; 4-way; insulated; light gray | www.wago.com/2000-404 |
|  | Item no.: 2000-403/000-005 Jumper; 3-way; insulated; red | www.wago.com/2000-403/000-005 |
|  | Item no.: 2000-404/000-006 Jumper; 4-way; insulated; blue | www.wago.com/2000-404/000-006 |
|  | Item no.: 2000-403/000-006 Jumper; 3-way; insulated; blue | www.wago.com/2000-403/000-006 |
|  | Item no.: 2000-404/000-005 Jumper; 4-way; insulated; red | www.wago.com/2000-404/000-005 |
|  | Item no.: 2000-405 Jumper; 5-way; insulated; light gray | www.wago.com/2000-405 |
|  | Item no.: 2000-405/011-000 Star point jumper; 3-way; insulated; light gray | www.wago.com/2000-405/011-000 |

Subject to changes. Please also observe the further product documentation!



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

www.wago.com/2000-405/000-006



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

www.wago.com/2000-406/000-006



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

www.wago.com/2000-405/000-005



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

www.wago.com/2000-406



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

www.wago.com/2000-406/000-005



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

www.wago.com/2000-406/020-000



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

www.wago.com/2000-437



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

www.wago.com/2000-438

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

www.wago.com/2000-492



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

www.wago.com/2000-439



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

www.wago.com/2000-440



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

www.wago.com/210-103

Marking accessories

Marking strip
















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

www.wago.com/2009-110

Marker

Subject to changes. Please also observe the further product documentation!

| | | |
|---|--|--|
|  | Item no.: 2009-113 WMB-Inline; for Smart Printer; 2300 pieces on roll; plain; snap-on type; white | www.wago.com/2009-113 |
|  | Item no.: 2009-113/000-002 WMB-Inline; for Smart Printer; 2300 pieces on roll; plain; snap-on type; yellow | www.wago.com/2009-113/000-002 |
|  | Item no.: 2009-113/000-012 WMB-Inline; for Smart Printer; 2300 pieces on roll; plain; snap-on type; orange | www.wago.com/2009-113/000-012 |
|  | Item no.: 2009-113/000-007 WMB-Inline; for Smart Printer; 2300 pieces on roll; plain; snap-on type; gray | www.wago.com/2009-113/000-007 |
|  | Item no.: 2009-113/000-005 WMB-Inline; for Smart Printer; 2300 pieces on roll; plain; snap-on type; red | www.wago.com/2009-113/000-005 |
|  | Item no.: 2009-113/000-017 WMB-Inline; for Smart Printer; 2300 pieces on roll; plain; snap-on type; light green | www.wago.com/2009-113/000-017 |
|  | Item no.: 2009-113/000-006 WMB-Inline; for Smart Printer; 2300 pieces on roll; plain; snap-on type; blue | www.wago.com/2009-113/000-006 |
|  | Item no.: 2009-113/000-024 WMB-Inline; for Smart Printer; 2300 pieces on roll; plain; snap-on type; violet | www.wago.com/2009-113/000-024 |
|  | Item no.: 2009-113/000-023 WMB-Inline; for Smart Printer; 2300 pieces on roll; plain; snap-on type; green | www.wago.com/2009-113/000-023 |
|  | Item no.: 793-3501 WMB marking card; as card; plain; snap-on type; white | www.wago.com/793-3501 |
| Protective warning marker | | |
| Cover | | |
|  | Item no.: 2000-115 Protective warning marker; with high-voltage symbol, black; for 5 terminal blocks; yellow | www.wago.com/2000-115 |
| Ferrule | | |
| Ferrule | | |
|  | Item no.: 216-241 Ferrule; Sleeve for 0.5 mm ² / 20 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; white | www.wago.com/216-241 |
|  | Item no.: 216-242 Ferrule; Sleeve for 0.75 mm ² / 18 AWG; insulated; electro-tin plated; electrolytic copper; gastight | www.wago.com/216-242 |

Subject to changes. Please also observe the further product documentation!



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; www.wago.com/216-243
acc. to DIN 46228, Part 4/09.90; red

Downloads

Documentation

Bid Text

| | | | |
|---------------------------|------------|-----------------|----------|
| 2000-2231 docx - Datei | 7 Aug 2018 | docx 14.8 kB | Download |
|---------------------------|------------|-----------------|----------|

| | | | |
|--------------------------|-------------|---------------|----------|
| 2000-2231 X81 - Datei | 19 Feb 2019 | xml 3.9 kB | Download |
|--------------------------|-------------|---------------|----------|

Additional Information

| | | | |
|------------------------|------------|---------------|----------|
| Technical explanations | 3 Apr 2019 | pdf 2.2 MB | Download |
|------------------------|------------|---------------|----------|

CAD/CAE-Data

CAD data

| | | | |
|------------------------|--|-----|----------|
| 2D/3D Models 2000-2231 | | URL | Download |
|------------------------|--|-----|----------|

CAE data

| | | | |
|-----------------------------|--|-----|----------|
| EPLAN Data Portal 2000-2231 | | URL | Download |
|-----------------------------|--|-----|----------|

| | | | |
|------------------------|--|-----|----------|
| ZUKEN Portal 2000-2231 | | URL | Download |
|------------------------|--|-----|----------|

| | | | |
|--------------------------|--|-----|----------|
| WSCAD Universe 2000-2231 | | URL | Download |
|--------------------------|--|-----|----------|

Environmental Product Compliance

Compliance Search

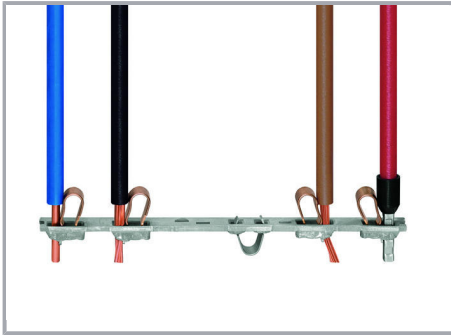
| | | | |
|--|--|-----|----------|
| Environmental Product Compliance 2000-2231 | | URL | Download |
|--|--|-----|----------|

Double-deck terminal block; Through/through terminal block; L/L; with marker carrier;
for DIN-rail 35 x 15 and 35 x 7.5; Push-in CAGE CLAMP®; 1,00 mm²; gray

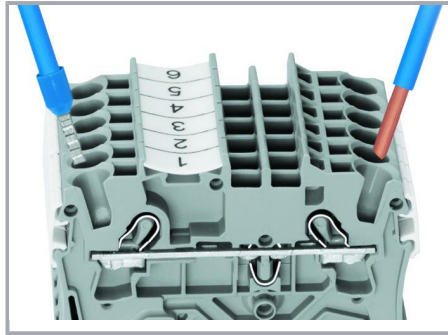
Subject to changes. Please also observe the further product documentation!

Installation Notes

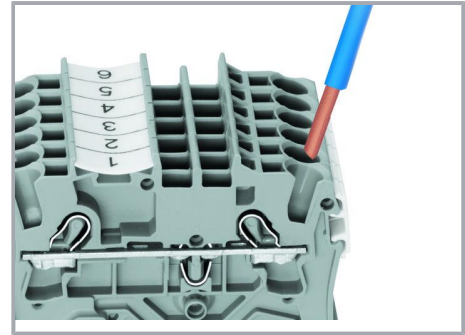
Conductor termination



All conductor types at a glance

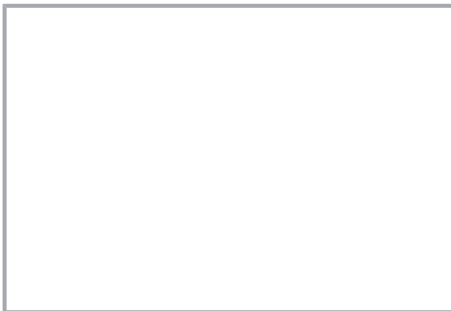


Push-in termination of solid and ferruled conductors



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.

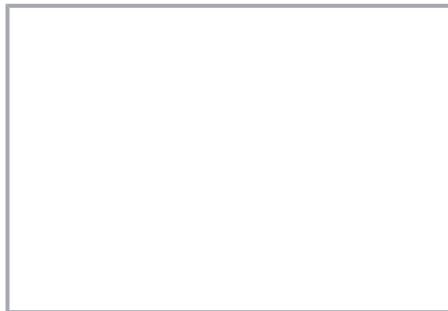


Inserting a conductor via operating tool:

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

Subject to changes. Please also observe the further product documentation!



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.

Product family

TOPJOB® S

TOPJOB® S: In various industrial applications and modern building installations, WAGO's wide and versatile range of rail-mount terminal blocks provides more than just reliable electrical connections.

[Show all products from the family](#)

Subject to changes. Please also observe the further product documentation!