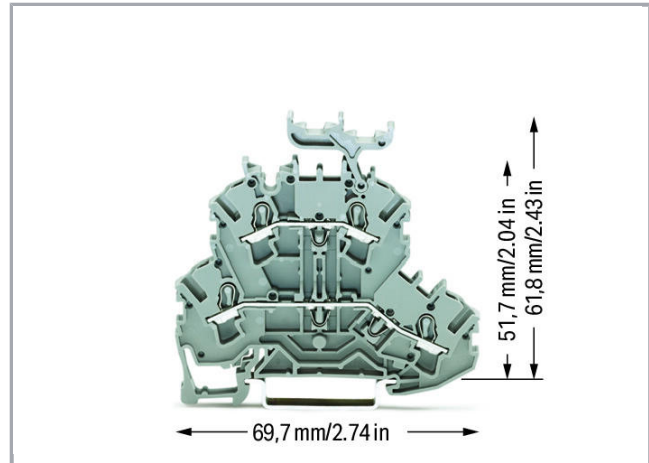
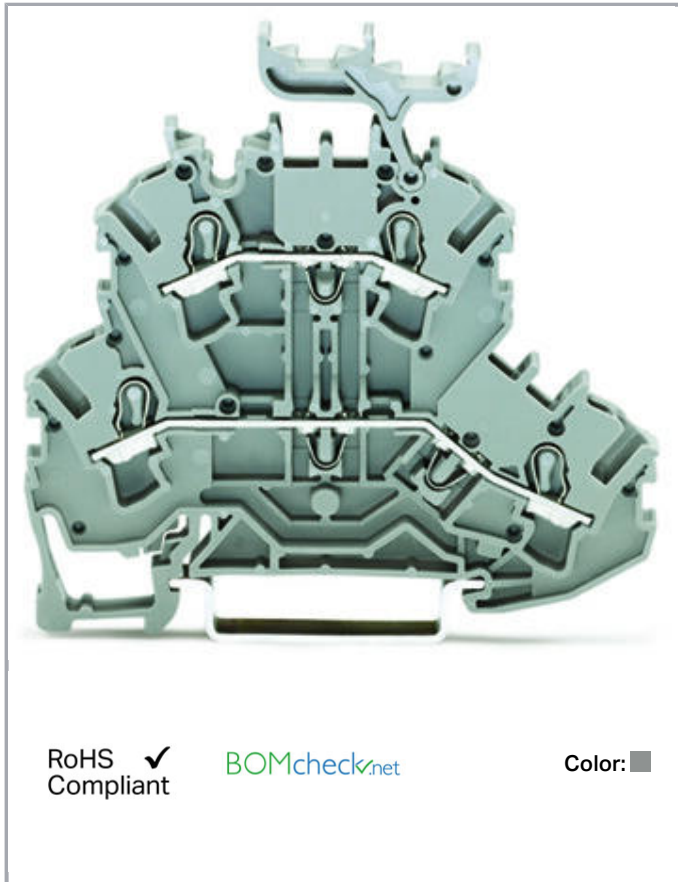


## Data sheet | Item number: 2002-2231

Double-deck terminal block; Through/through terminal block; L/L; with marker carrier; suitable for Ex e II applications; for DIN-rail 35 x 15 and 35 x 7.5; 2.5 mm<sup>2</sup>; Push-in CAGE CLAMP®; 2,50 mm<sup>2</sup>; gray

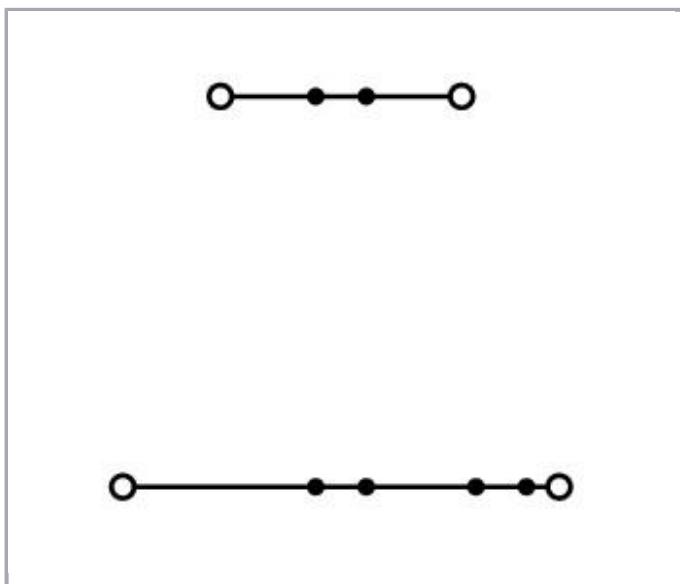
[www.wago.com/2002-2231](http://www.wago.com/2002-2231)



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

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## Data

### Electrical data

#### Ratings per IEC/EN 60664-1

| Ratings per                 | IEC/EN 60947-7-1                                                     |
|-----------------------------|----------------------------------------------------------------------|
| Nominal voltage (III/3)     | 500 V                                                                |
| Rated surge voltage (III/3) | 6 kV                                                                 |
| Rated current               | 24 A                                                                 |
| Rated current 2             | 28 A                                                                 |
| Legend (ratings)            | (III / 3) $\triangleq$ Overvoltage category III / Pollution degree 3 |

#### Approvals per UL 1059

|                                |       |
|--------------------------------|-------|
| Rated voltage UL (Use Group B) | 300 V |
| Rated current UL (Use Group B) | 20 A  |
| Rated voltage UL (Use Group C) | 300 V |
| Rated current UL (Use Group C) | 20 A  |
| Rated voltage UL (Use Group D) | 600 V |
| Rated current UL (Use Group D) | 5 A   |

#### Approvals per CSA

|                                 |       |
|---------------------------------|-------|
| Rated voltage CSA (Use Group B) | 600 V |
| Rated current CSA (Use Group B) | 20 A  |

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|                                 |       |
|---------------------------------|-------|
| Rated voltage CSA (Use Group C) | 600 V |
| Rated current CSA (Use Group C) | 20 A  |

## Approvals Ex

|                                     |       |
|-------------------------------------|-------|
| Rated voltage EN (Ex e II)          | 440 V |
| Rated current (Ex e II)             | 20 A  |
| Rated current (Ex e II) with jumper | 18 A  |

## Connection data

|                                                            |                                                                                                                                   |
|------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| Connection technology                                      | Push-in CAGE CLAMP®                                                                                                               |
| Number of connection points (connection type)              | 2                                                                                                                                 |
| Actuation type                                             | Push-in<br>Open Tool Slot                                                                                                         |
| 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            | 1 ... 2,5 mm² / 18 ... 14 AWG                                                                                                     |
| Fine-stranded conductor; with ferrule; push-in termination | 1 ... 2,5 mm² / 18 ... 14 AWG                                                                                                     |
| Strip length                                               | 10 ... 12 mm / 0.39 ... 0.47 inch                                                                                                 |
| Number of connection points                                | 2                                                                                                                                 |
| Total number of connection points                          | 4                                                                                                                                 |
| Total number of potentials                                 | 2                                                                                                                                 |
| Number of levels                                           | 2                                                                                                                                 |
| Wiring type                                                | Front-entry wiring                                                                                                                |
| Note (conductor cross-section)                             | Depending on the conductor characteristic, a conductor with a smaller cross-section can also be inserted via push-in termination. |

## Geometrical Data

|                                    |                      |
|------------------------------------|----------------------|
| Width                              | 5,2 mm / 0.205 inch  |
| Height from upper-edge of DIN-rail | 61,8 mm / 2.433 inch |
| Depth                              | 69,7 mm / 2.744 inch |

## Mechanical data

|               |                 |
|---------------|-----------------|
| Design        | horizontal type |
| Mounting type | DIN-35 rail     |

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|                   |                     |
|-------------------|---------------------|
| Potential marking | L/L                 |
| Marking level     | Center/side marking |

## Material Data

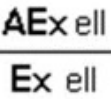
|                     |                      |
|---------------------|----------------------|
| Color               | gray                 |
| Insulation material | Polyamide 66 (PA 66) |
| Fire load           | 0.218 MJ             |
| Weight              | 10.6 g               |

## Commercial data

|                       |               |
|-----------------------|---------------|
| Product Group         | 22 (TOPJOB S) |
| Packaging type        | BOX           |
| Country of origin     | DE            |
| GTIN                  | 4044918965316 |
| Customs tariff number | 85369010000   |

## Approvals / Certificates

### Ex-Approvals

| Logo                                                                               | Approval                                                   | Additional Approval Text | Certificate name                                                       |
|------------------------------------------------------------------------------------|------------------------------------------------------------|--------------------------|------------------------------------------------------------------------|
|  | <b>AEx</b><br>Underwriters Laboratories Inc.               | UL 60079                 | 20190704-E185892                                                       |
|  | <b>ATEX</b><br>Physikalisch Technische Bundesanstalt (PTB) | EN 60079                 | PTB 03<br>ATEX<br>1162 U (II<br>2 G/D Ex e<br>II bzw. I M<br>2 Ex e I) |
|  | <b>IECEX</b><br>Physikalisch Technische Bundesanstalt      | IEC 60079                | IECEX PTB<br>03.0004U<br>(Ex eb IIC<br>Gb or Ex<br>eb I Mb)            |

### Country specific Approvals

| Logo | Approval                               | Additional Approval Text | Certificate name |
|------|----------------------------------------|--------------------------|------------------|
|      | <b>CCA</b><br>DEKRA Certification B.V. | EN 60947                 | NTR NL<br>7730   |

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CCA



CSA  
DEKRA Certification B.V.

C22.2 No. 158

1536069



KEMA/KEUR  
DEKRA Certification B.V.

EN 60947

71-  
107687

#### Ship Approvals

| Logo                                                                                | Approval                                                | Additional Approval Text | Certificate name         |
|-------------------------------------------------------------------------------------|---------------------------------------------------------|--------------------------|--------------------------|
|     | <b>ABS</b><br>American Bureau of Shipping               | EN 60947                 | 20-<br>HG1941090-<br>PDA |
|   | <b>BV</b><br>Bureau Veritas S.A.                        | EN 60947                 | 38586/A0 BV              |
|   | <b>DNV GL</b><br>Det Norske Veritas, Germanischer Lloyd | -                        | TAE00001V2               |
|  | <b>LR</b><br>Lloyds Register                            | EN 60947                 | 91/20112<br>(E9)         |

#### UL-Approvals

| Logo                                                                               | Approval                                       | Additional Approval Text | Certificate name    |
|------------------------------------------------------------------------------------|------------------------------------------------|--------------------------|---------------------|
|  | <b>cULus</b><br>Underwriters Laboratories Inc. | UL 1059                  | 20190731-<br>E45172 |

#### Counterpart

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## Compatible products

## Carrier rail

|                                                                                    |                                                                                                                                        |                                                                |
|------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|
|    | <b>Item no.: 210-112</b><br>Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; slotted; according to EN 60715; "Hole width 25 mm   | <a href="http://www.wago.com/210-112">www.wago.com/210-112</a> |
|    | <b>Item no.: 210-113</b><br>Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; unslotted; according to EN 60715                    | <a href="http://www.wago.com/210-113">www.wago.com/210-113</a> |
|    | <b>Item no.: 210-114</b><br>Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; unslotted; similar to EN 60715                     | <a href="http://www.wago.com/210-114">www.wago.com/210-114</a> |
|    | <b>Item no.: 210-115</b><br>Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; slotted; according to EN 60715; "Hole width 18 mm   | <a href="http://www.wago.com/210-115">www.wago.com/210-115</a> |
|  | <b>Item no.: 210-118</b><br>Steel carrier rail; 35 x 15 mm; 2.3 mm thick; 2 m long; unslotted; according to EN 60715                   | <a href="http://www.wago.com/210-118">www.wago.com/210-118</a> |
|  | <b>Item no.: 210-196</b><br>Aluminum carrier rail; 35 x 8.2 mm; 1.6 mm thick; 2 m long; unslotted; similar to EN 60715; silver-colored | <a href="http://www.wago.com/210-196">www.wago.com/210-196</a> |
|  | <b>Item no.: 210-197</b><br>Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; slotted; similar to EN 60715                       | <a href="http://www.wago.com/210-197">www.wago.com/210-197</a> |
|  | <b>Item no.: 210-198</b><br>Copper carrier rail; 35 x 15 mm; 2.3 mm thick; 2 m long; unslotted; according to EN 60715; copper-colored  | <a href="http://www.wago.com/210-198">www.wago.com/210-198</a> |
|  | <b>Item no.: 210-504</b><br>Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; slotted; galvanized; according to EN 60715          | <a href="http://www.wago.com/210-504">www.wago.com/210-504</a> |
|  | <b>Item no.: 210-505</b><br>Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; unslotted; galvanized; according to EN 60715        | <a href="http://www.wago.com/210-505">www.wago.com/210-505</a> |
|  | <b>Item no.: 210-506</b><br>Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; unslotted; galvanized; similar to EN 60715         | <a href="http://www.wago.com/210-506">www.wago.com/210-506</a> |
|  | <b>Item no.: 210-508</b><br>Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; slotted; galvanized; similar to EN 60715           | <a href="http://www.wago.com/210-508">www.wago.com/210-508</a> |

## ferrule

**Item no.: 216-241**

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

|                                                                                   |                                                                                                                                                                                            |                                                                  |
|-----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|
|    | 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                             | <a href="http://www.wago.com/216-241">www.wago.com/216-241</a>   |
|    | <b>Item no.: 216-242</b><br>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 | <a href="http://www.wago.com/216-242">www.wago.com/216-242</a>   |
|    | <b>Item no.: 216-243</b><br>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     | <a href="http://www.wago.com/216-243">www.wago.com/216-243</a>   |
|    | <b>Item no.: 216-244</b><br>Ferrule; Sleeve for 1.5 mm <sup>2</sup> / AWG 16; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; black | <a href="http://www.wago.com/216-244">www.wago.com/216-244</a>   |
|    | <b>Item no.: 216-246</b><br>Ferrule; Sleeve for 2.5 mm <sup>2</sup> / AWG 14; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; blue  | <a href="http://www.wago.com/216-246">www.wago.com/216-246</a>   |
|    | <b>Item no.: 216-262</b><br>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 | <a href="http://www.wago.com/216-262">www.wago.com/216-262</a>   |
|    | <b>Item no.: 216-263</b><br>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     | <a href="http://www.wago.com/216-263">www.wago.com/216-263</a>   |
|   | <b>Item no.: 216-264</b><br>Ferrule; Sleeve for 1.5 mm <sup>2</sup> / AWG 16; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; black | <a href="http://www.wago.com/216-264">www.wago.com/216-264</a>   |
|  | <b>Item no.: 216-266</b><br>Ferrule; Sleeve for 2.5 mm <sup>2</sup> / AWG 14; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; blue  | <a href="http://www.wago.com/216-266">www.wago.com/216-266</a>   |
| <b>check</b>                                                                      |                                                                                                                                                                                            |                                                                  |
|  | <b>Item no.: 2002-611</b><br>TOPJOB®S L-type test plug module; modular; 1-pole; 2,50 mm <sup>2</sup> ; gray                                                                                | <a href="http://www.wago.com/2002-611">www.wago.com/2002-611</a> |
|  | <b>Item no.: 2002-649</b><br>TOPJOB®S L-type spacer module; modular; e.g., for bridging commoned terminal blocks; gray                                                                     | <a href="http://www.wago.com/2002-649">www.wago.com/2002-649</a> |
|  | <b>Item no.: 2009-174</b><br>Test plug adapter; for 4 mm Ø test plugs; for testing TOPJOB®S rail-mounted terminal blocks; gray                                                             | <a href="http://www.wago.com/2009-174">www.wago.com/2009-174</a> |
|  | <b>Item no.: 2009-182</b><br>Testing tap; for max. 2.5 mm <sup>2</sup> ; tool-free connection for individual test wires 0.08 - 2.5 mm; gray                                                | <a href="http://www.wago.com/2009-182">www.wago.com/2009-182</a> |
| <b>Protective Warning Marker</b>                                                  |                                                                                                                                                                                            |                                                                  |
|  | <b>Item no.: 2002-115</b><br>Protective warning marker; with high-voltage symbol, black; for 5 terminal blocks; yellow                                                                     | <a href="http://www.wago.com/2002-115">www.wago.com/2002-115</a> |
| <b>Push-In type wire jumper</b>                                                   |                                                                                                                                                                                            |                                                                  |
|  | <b>Item no.: 2009-412</b><br>Push-in type wire jumper; insulated; 60 mm long; black                                                                                                        | <a href="http://www.wago.com/2009-412">www.wago.com/2009-412</a> |
|  | <b>Item no.: 2009-414</b><br>Push-in type wire jumper; 1.5 mm <sup>2</sup> ; insulated; 110 mm long; black                                                                                 | <a href="http://www.wago.com/2009-414">www.wago.com/2009-414</a> |

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



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

[www.wago.com/2009-414/000-005](http://www.wago.com/2009-414/000-005)



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

[www.wago.com/2009-414/000-006](http://www.wago.com/2009-414/000-006)



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

[www.wago.com/2009-416](http://www.wago.com/2009-416)

#### Insulation stop



**Item no.: 2002-171**  
Insulation stop; 0.25 - 0.5 mm²; 5 pieces/strip; light gray

[www.wago.com/2002-171](http://www.wago.com/2002-171)



**Item no.: 2002-172**  
Insulation stop; 0.75 - 1 mm²; 5 pieces/strip; dark gray

[www.wago.com/2002-172](http://www.wago.com/2002-172)

#### Marking accessories



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

[www.wago.com/2009-110](http://www.wago.com/2009-110)



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

[www.wago.com/2009-115](http://www.wago.com/2009-115)



**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

[www.wago.com/2009-115/000-002](http://www.wago.com/2009-115/000-002)



**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

[www.wago.com/2009-115/000-005](http://www.wago.com/2009-115/000-005)



**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

[www.wago.com/2009-115/000-006](http://www.wago.com/2009-115/000-006)



**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

[www.wago.com/2009-115/000-007](http://www.wago.com/2009-115/000-007)



**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

[www.wago.com/2009-115/000-012](http://www.wago.com/2009-115/000-012)



**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

[www.wago.com/2009-115/000-017](http://www.wago.com/2009-115/000-017)



**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

[www.wago.com/2009-115/000-023](http://www.wago.com/2009-115/000-023)

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|                                                                                    |                                                                                                                                                   |                                                                                  |
|------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|
|    | <b>Item no.: 2009-115/000-024</b><br>WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; violet      | <a href="http://www.wago.com/2009-115/000-024">www.wago.com/2009-115/000-024</a> |
|    | <b>Item no.: 2009-145</b><br>Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; white          | <a href="http://www.wago.com/2009-145">www.wago.com/2009-145</a>                 |
|    | <b>Item no.: 2009-145/000-002</b><br>Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; yellow | <a href="http://www.wago.com/2009-145/000-002">www.wago.com/2009-145/000-002</a> |
|    | <b>Item no.: 2009-145/000-005</b><br>Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; red    | <a href="http://www.wago.com/2009-145/000-005">www.wago.com/2009-145/000-005</a> |
|    | <b>Item no.: 2009-145/000-006</b><br>Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; blue   | <a href="http://www.wago.com/2009-145/000-006">www.wago.com/2009-145/000-006</a> |
|    | <b>Item no.: 2009-145/000-007</b><br>Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; gray   | <a href="http://www.wago.com/2009-145/000-007">www.wago.com/2009-145/000-007</a> |
|    | <b>Item no.: 2009-145/000-012</b><br>Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; orange | <a href="http://www.wago.com/2009-145/000-012">www.wago.com/2009-145/000-012</a> |
|   | <b>Item no.: 2009-145/000-023</b><br>Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; green  | <a href="http://www.wago.com/2009-145/000-023">www.wago.com/2009-145/000-023</a> |
|  | <b>Item no.: 2009-145/000-024</b><br>Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; violet | <a href="http://www.wago.com/2009-145/000-024">www.wago.com/2009-145/000-024</a> |
|  | <b>Item no.: 2009-191</b><br>Group marker carrier                                                                                                 | <a href="http://www.wago.com/2009-191">www.wago.com/2009-191</a>                 |
|  | <b>Item no.: 2009-192</b><br>Group marker carrier                                                                                                 | <a href="http://www.wago.com/2009-192">www.wago.com/2009-192</a>                 |
|  | <b>Item no.: 2009-193</b><br>Group marker carrier                                                                                                 | <a href="http://www.wago.com/2009-193">www.wago.com/2009-193</a>                 |
|  | <b>Item no.: 2009-198</b><br>Adaptor                                                                                                              | <a href="http://www.wago.com/2009-198">www.wago.com/2009-198</a>                 |
|  | <b>Item no.: 248-501</b><br>Miniature WSB Quick marking system; plain; Marker width 5 mm; 10 strips with 10 markers per card                      | <a href="http://www.wago.com/248-501">www.wago.com/248-501</a>                   |
|  | <b>Item no.: 248-501/000-002</b><br>Mini-WSB marking card; as card; not stretchable; plain; snap-on type; yellow                                  | <a href="http://www.wago.com/248-501/000-002">www.wago.com/248-501/000-002</a>   |

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

**Item no.: 248-501/000-005**

Mini-WSB marking card; as card; not stretchable; plain; snap-on type; red

[www.wago.com/248-501/000-005](http://www.wago.com/248-501/000-005)**Item no.: 248-501/000-006**

Mini-WSB marking card; as card; not stretchable; plain; snap-on type; blue

[www.wago.com/248-501/000-006](http://www.wago.com/248-501/000-006)**Item no.: 248-501/000-007**

Mini-WSB marking card; as card; not stretchable; plain; snap-on type; gray

[www.wago.com/248-501/000-007](http://www.wago.com/248-501/000-007)**Item no.: 248-501/000-012**

Mini-WSB marking card; as card; not stretchable; plain; snap-on type; orange

[www.wago.com/248-501/000-012](http://www.wago.com/248-501/000-012)**Item no.: 248-501/000-017**

Mini-WSB marking card; as card; not stretchable; plain; snap-on type; light green

[www.wago.com/248-501/000-017](http://www.wago.com/248-501/000-017)**Item no.: 248-501/000-023**

Mini-WSB marking card; as card; not stretchable; plain; snap-on type; green

[www.wago.com/248-501/000-023](http://www.wago.com/248-501/000-023)**Item no.: 248-501/000-024**

Mini-WSB marking card; as card; not stretchable; plain; snap-on type; violet

[www.wago.com/248-501/000-024](http://www.wago.com/248-501/000-024)**Item no.: 793-501**

WMB marking card; as card; not stretchable; plain; snap-on type; white

[www.wago.com/793-501](http://www.wago.com/793-501)**Item no.: 793-501/000-002**

WMB marking card; as card; not stretchable; plain; snap-on type; yellow

[www.wago.com/793-501/000-002](http://www.wago.com/793-501/000-002)**Item no.: 793-501/000-005**

WMB marking card; as card; not stretchable; plain; snap-on type; red

[www.wago.com/793-501/000-005](http://www.wago.com/793-501/000-005)**Item no.: 793-501/000-006**

WMB marking card; as card; not stretchable; plain; snap-on type; blue

[www.wago.com/793-501/000-006](http://www.wago.com/793-501/000-006)**Item no.: 793-501/000-007**

WMB marking card; as card; not stretchable; plain; snap-on type; gray

[www.wago.com/793-501/000-007](http://www.wago.com/793-501/000-007)**Item no.: 793-501/000-012**

WMB marking card; as card; not stretchable; plain; snap-on type; orange

[www.wago.com/793-501/000-012](http://www.wago.com/793-501/000-012)**Item no.: 793-501/000-017**

WMB marking card; as card; not stretchable; plain; snap-on type; light green

[www.wago.com/793-501/000-017](http://www.wago.com/793-501/000-017)

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

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

[www.wago.com/793-501/000-023](http://www.wago.com/793-501/000-023)



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

[www.wago.com/793-501/000-024](http://www.wago.com/793-501/000-024)



**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

[www.wago.com/793-5501](http://www.wago.com/793-5501)



**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

[www.wago.com/793-5501/000-002](http://www.wago.com/793-5501/000-002)



**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

[www.wago.com/793-5501/000-005](http://www.wago.com/793-5501/000-005)



**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

[www.wago.com/793-5501/000-006](http://www.wago.com/793-5501/000-006)



**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

[www.wago.com/793-5501/000-007](http://www.wago.com/793-5501/000-007)



**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

[www.wago.com/793-5501/000-012](http://www.wago.com/793-5501/000-012)



**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

[www.wago.com/793-5501/000-014](http://www.wago.com/793-5501/000-014)



**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; green

[www.wago.com/793-5501/000-017](http://www.wago.com/793-5501/000-017)



**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; light green

[www.wago.com/793-5501/000-023](http://www.wago.com/793-5501/000-023)



**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

[www.wago.com/793-5501/000-024](http://www.wago.com/793-5501/000-024)

#### End plate



**Item no.: 2002-2295**  
Separator plate; oversized upper deck; snap-fit type; 2 mm thick; gray

[www.wago.com/2002-2295](http://www.wago.com/2002-2295)

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

|                                                                                    |                                                                                                                           |                                                                                  |
|------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|
|    | <b>Item no.: 2002-2296</b><br>Separator plate; oversized upper deck; snap-fit type; 2 mm thick; orange                    | <a href="http://www.wago.com/2002-2296">www.wago.com/2002-2296</a>               |
|    | <b>Item no.: 209-192</b><br>Separator for Ex e/Ex i applications; 3 mm thick; 125.5 mm wide; orange                       | <a href="http://www.wago.com/209-192">www.wago.com/209-192</a>                   |
| <b>Jumper</b>                                                                      |                                                                                                                           |                                                                                  |
|    | <b>Item no.: 2002-400</b><br>Adjacent jumper for continuous commoning; insulated; 2-way; Nominal current 25 A; light gray | <a href="http://www.wago.com/2002-400">www.wago.com/2002-400</a>                 |
|    | <b>Item no.: 2002-402</b><br>Push-in type jumper bar; insulated; 2-way; Nominal current 25 A; light gray                  | <a href="http://www.wago.com/2002-402">www.wago.com/2002-402</a>                 |
|    | <b>Item no.: 2002-402/000-005</b><br>Push-in type jumper bar; insulated; 2-way; Nominal current 25 A; red                 | <a href="http://www.wago.com/2002-402/000-005">www.wago.com/2002-402/000-005</a> |
|    | <b>Item no.: 2002-402/000-006</b><br>Push-in type jumper bar; insulated; 2-way; Nominal current 25 A; blue                | <a href="http://www.wago.com/2002-402/000-006">www.wago.com/2002-402/000-006</a> |
|    | <b>Item no.: 2002-403</b><br>Push-in type jumper bar; insulated; 3-way; Nominal current 25 A; light gray                  | <a href="http://www.wago.com/2002-403">www.wago.com/2002-403</a>                 |
|    | <b>Item no.: 2002-403/000-005</b><br>Push-in type jumper bar; insulated; 3-way; Nominal current 25 A; red                 | <a href="http://www.wago.com/2002-403/000-005">www.wago.com/2002-403/000-005</a> |
|    | <b>Item no.: 2002-403/000-006</b><br>Push-in type jumper bar; insulated; 3-way; Nominal current 25 A; blue                | <a href="http://www.wago.com/2002-403/000-006">www.wago.com/2002-403/000-006</a> |
|  | <b>Item no.: 2002-404</b><br>Push-in type jumper bar; insulated; 4-way; Nominal current 25 A; light gray                  | <a href="http://www.wago.com/2002-404">www.wago.com/2002-404</a>                 |
|  | <b>Item no.: 2002-404/000-005</b><br>Push-in type jumper bar; insulated; 4-way; Nominal current 25 A; red                 | <a href="http://www.wago.com/2002-404/000-005">www.wago.com/2002-404/000-005</a> |
|  | <b>Item no.: 2002-404/000-006</b><br>Push-in type jumper bar; insulated; 4-way; Nominal current 25 A; blue                | <a href="http://www.wago.com/2002-404/000-006">www.wago.com/2002-404/000-006</a> |
|  | <b>Item no.: 2002-405</b><br>Push-in type jumper bar; insulated; 5-way; Nominal current 25 A; light gray                  | <a href="http://www.wago.com/2002-405">www.wago.com/2002-405</a>                 |
|  | <b>Item no.: 2002-405/000-005</b><br>Push-in type jumper bar; insulated; 5-way; Nominal current 25 A; red                 | <a href="http://www.wago.com/2002-405/000-005">www.wago.com/2002-405/000-005</a> |
|  | <b>Item no.: 2002-405/000-006</b><br>Push-in type jumper bar; insulated; 5-way; Nominal current 25 A; blue                | <a href="http://www.wago.com/2002-405/000-006">www.wago.com/2002-405/000-006</a> |

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

**Item no.: 2002-405/011-000**

Star point jumper; insulated; 3-way (1-3-5); IN = IN terminal block; light gray

[www.wago.com/2002-405/011-000](http://www.wago.com/2002-405/011-000)**Item no.: 2002-406**

Push-in type jumper bar; insulated; 6-way; Nominal current 25 A; light gray

[www.wago.com/2002-406](http://www.wago.com/2002-406)**Item no.: 2002-406/000-005**

Push-in type jumper bar; insulated; 6-way; Nominal current 25 A; red

[www.wago.com/2002-406/000-005](http://www.wago.com/2002-406/000-005)**Item no.: 2002-406/000-006**

Push-in type jumper bar; insulated; 6-way; Nominal current 25 A; blue

[www.wago.com/2002-406/000-006](http://www.wago.com/2002-406/000-006)**Item no.: 2002-406/020-000**

Delta jumper; insulated; 1-2 3-4 5-6; IN = IN terminal block; light gray

[www.wago.com/2002-406/020-000](http://www.wago.com/2002-406/020-000)**Item no.: 2002-407**

Push-in type jumper bar; insulated; 7-way; Nominal current 25 A; light gray

[www.wago.com/2002-407](http://www.wago.com/2002-407)**Item no.: 2002-407/000-005**

Push-in type jumper bar; insulated; 7-way; Nominal current 25 A; red

[www.wago.com/2002-407/000-005](http://www.wago.com/2002-407/000-005)**Item no.: 2002-407/000-006**

Push-in type jumper bar; insulated; 7-way; Nominal current 25 A; blue

[www.wago.com/2002-407/000-006](http://www.wago.com/2002-407/000-006)**Item no.: 2002-408**

Push-in type jumper bar; insulated; 8-way; Nominal current 25 A; light gray

[www.wago.com/2002-408](http://www.wago.com/2002-408)**Item no.: 2002-408/000-005**

Push-in type jumper bar; insulated; 8-way; Nominal current 25 A; red

[www.wago.com/2002-408/000-005](http://www.wago.com/2002-408/000-005)**Item no.: 2002-408/000-006**

Push-in type jumper bar; insulated; 8-way; Nominal current 25 A; blue

[www.wago.com/2002-408/000-006](http://www.wago.com/2002-408/000-006)**Item no.: 2002-409**

Push-in type jumper bar; insulated; 9-way; Nominal current 25 A; light gray

[www.wago.com/2002-409](http://www.wago.com/2002-409)**Item no.: 2002-409/000-005**

Push-in type jumper bar; insulated; 9-way; Nominal current 25 A; red

[www.wago.com/2002-409/000-005](http://www.wago.com/2002-409/000-005)**Item no.: 2002-409/000-006**

Push-in type jumper bar; insulated; 9-way; Nominal current 25 A; blue

[www.wago.com/2002-409/000-006](http://www.wago.com/2002-409/000-006)**Item no.: 2002-410**

Push-in type jumper bar; insulated; 10-way; Nominal current 25 A; light gray

[www.wago.com/2002-410](http://www.wago.com/2002-410)

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

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**Item no.: 2002-410/000-005**  
Push-in type jumper bar; insulated; 10-way; Nominal current 25 A; red

[www.wago.com/2002-410/000-005](http://www.wago.com/2002-410/000-005)



**Item no.: 2002-410/000-006**  
Push-in type jumper bar; insulated; 10-way; Nominal current 25 A; blue

[www.wago.com/2002-410/000-006](http://www.wago.com/2002-410/000-006)



**Item no.: 2002-423**  
Adjacent jumper for continuous commoning; insulated; from 1 to 3; Nominal current 25 A; light gray

[www.wago.com/2002-423](http://www.wago.com/2002-423)



**Item no.: 2002-423/000-005**  
Adjacent jumper for continuous commoning; insulated; from 1 to 3; Nominal current 25 A; red

[www.wago.com/2002-423/000-005](http://www.wago.com/2002-423/000-005)



**Item no.: 2002-423/000-006**  
Adjacent jumper for continuous commoning; insulated; from 1 to 3; Nominal current 25 A; blue

[www.wago.com/2002-423/000-006](http://www.wago.com/2002-423/000-006)



**Item no.: 2002-433**  
Push-in type jumper bar; insulated; from 1 to 3; Nominal current 25 A; light gray

[www.wago.com/2002-433](http://www.wago.com/2002-433)



**Item no.: 2002-434**  
Push-in type jumper bar; insulated; from 1 to 4; Nominal current 25 A; light gray

[www.wago.com/2002-434](http://www.wago.com/2002-434)



**Item no.: 2002-435**  
Push-in type jumper bar; insulated; from 1 to 5; Nominal current 25 A; light gray

[www.wago.com/2002-435](http://www.wago.com/2002-435)



**Item no.: 2002-436**  
Push-in type jumper bar; insulated; from 1 to 6; Nominal current 25 A; light gray

[www.wago.com/2002-436](http://www.wago.com/2002-436)



**Item no.: 2002-437**  
Push-in type jumper bar; insulated; from 1 to 7; Nominal current 25 A; light gray

[www.wago.com/2002-437](http://www.wago.com/2002-437)



**Item no.: 2002-438**  
Push-in type jumper bar; insulated; from 1 to 8; Nominal current 25 A; light gray

[www.wago.com/2002-438](http://www.wago.com/2002-438)



**Item no.: 2002-439**  
Push-in type jumper bar; insulated; from 1 to 9; Nominal current 25 A; light gray

[www.wago.com/2002-439](http://www.wago.com/2002-439)



**Item no.: 2002-440**  
Push-in type jumper bar; insulated; from 1 to 10; Nominal current 25 A; light gray

[www.wago.com/2002-440](http://www.wago.com/2002-440)



**Item no.: 2002-472**  
Staggered jumper; insulated; 2-way; Nominal current 25 A; suitable for 2002 and 2003 Series rail-mounted terminal blocks; light gray

[www.wago.com/2002-472](http://www.wago.com/2002-472)



**Item no.: 2002-473**  
Staggered jumper; insulated; 3-way; Nominal current 25 A; suitable for 2002 and 2003 Series rail-mounted terminal blocks; light gray

[www.wago.com/2002-473](http://www.wago.com/2002-473)

**Item no.: 2002-473/011-000**

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

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Ready-made staggered jumper; insulated; 2-way (1-3); Nominal current 25 A; with contact lugs broken off at the factory and circuit marking; light gray

[www.wago.com/2002-473/011-000](http://www.wago.com/2002-473/011-000)

**Item no.: 2002-474**

Staggered jumper; insulated; 4-way; Nominal current 25 A; suitable for 2002 and 2003 Series rail-mounted terminal blocks; light gray

[www.wago.com/2002-474](http://www.wago.com/2002-474)

**Item no.: 2002-475**

Staggered jumper; insulated; 5-way; Nominal current 25 A; suitable for 2002 and 2003 Series rail-mounted terminal blocks; light gray

[www.wago.com/2002-475](http://www.wago.com/2002-475)

**Item no.: 2002-475/011-000**

Ready-made staggered jumper; insulated; 3-way (1-3-5); Nominal current 25 A; with contact lugs broken off at the factory and circuit marking; light gray

[www.wago.com/2002-475/011-000](http://www.wago.com/2002-475/011-000)

**Item no.: 2002-476**

Staggered jumper; insulated; 6-way; Nominal current 25 A; suitable for 2002 and 2003 Series rail-mounted terminal blocks; light gray

[www.wago.com/2002-476](http://www.wago.com/2002-476)

**Item no.: 2002-477**

Staggered jumper; insulated; 7-way; Nominal current 25 A; suitable for 2002 and 2003 Series rail-mounted terminal blocks; light gray

[www.wago.com/2002-477](http://www.wago.com/2002-477)

**Item no.: 2002-477/011-000**

Ready-made staggered jumper; insulated; 1-3-5-7; Nominal current 25 A; with contact lugs broken off at the factory and circuit marking; light gray

[www.wago.com/2002-477/011-000](http://www.wago.com/2002-477/011-000)

**Item no.: 2002-478**

Staggered jumper; insulated; 8-way; Nominal current 25 A; suitable for 2002 and 2003 Series rail-mounted terminal blocks; light gray

[www.wago.com/2002-478](http://www.wago.com/2002-478)

**Item no.: 2002-479**

Staggered jumper; insulated; 9-way; Nominal current 25 A; suitable for 2002 and 2003 Series rail-mounted terminal blocks; light gray

[www.wago.com/2002-479](http://www.wago.com/2002-479)

**Item no.: 2002-479/011-000**

Ready-made staggered jumper; insulated; 1-3-5-7-9; Nominal current 25 A; with contact lugs broken off at the factory and circuit marking; light gray

[www.wago.com/2002-479/011-000](http://www.wago.com/2002-479/011-000)

**Item no.: 2002-480**

Staggered jumper; insulated; 10-way; Nominal current 25 A; suitable for 2002 and 2003 Series rail-mounted terminal blocks; light gray

[www.wago.com/2002-480](http://www.wago.com/2002-480)

**Item no.: 2002-481**

Staggered jumper; insulated; 11-way; Nominal current 25 A; suitable for 2002 and 2003 Series rail-mounted terminal blocks; light gray

[www.wago.com/2002-481](http://www.wago.com/2002-481)

**Item no.: 2002-481/011-000**

Ready-made staggered jumper; insulated; 1-3-5-7-9-11; Nominal current 25 A; with contact lugs broken off at the factory and circuit marking; light gray

[www.wago.com/2002-481/011-000](http://www.wago.com/2002-481/011-000)

**Item no.: 2002-482**

Staggered jumper; insulated; 12-way; Nominal current 25 A; suitable for 2002 and 2003 Series rail-mounted terminal blocks; light gray

[www.wago.com/2002-482](http://www.wago.com/2002-482)

**Item no.: 2002-492**

Double-deck vertical jumper; insulated; light gray

[www.wago.com/2002-492](http://www.wago.com/2002-492)

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

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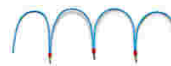
Item no.: 2002-492/000-012

Double-deck vertical jumper; insulated; orange

[www.wago.com/2002-492/000-012](http://www.wago.com/2002-492/000-012)


Item no.: 210-103

Wire commoning chain; insulated; black

[www.wago.com/210-103](http://www.wago.com/210-103)


Item no.: 210-123

Wire commoning chain; insulated; blue

[www.wago.com/210-123](http://www.wago.com/210-123)

## tools



Item no.: 210-658

Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; angled; short

[www.wago.com/210-658](http://www.wago.com/210-658)


Item no.: 210-720

Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft

[www.wago.com/210-720](http://www.wago.com/210-720)

## Downloads

## Documentation

## Bid Text

|                                |              |                 |          |
|--------------------------------|--------------|-----------------|----------|
| 2002-2231<br>GAEB docx - Datei | Apr 18, 2019 | docx<br>15.3 kB | Download |
| 2002-2231<br>GAEB X81 - Datei  | Apr 24, 2019 | xml<br>4.3 kB   | Download |

## CAD/CAE-Data

## CAD data

|                        |     |          |
|------------------------|-----|----------|
| 2D/3D Models 2002-2231 | URL | Download |
|------------------------|-----|----------|

## CAE data

|                             |     |          |
|-----------------------------|-----|----------|
| EPLAN Data Portal 2002-2231 | URL | Download |
| WSCAD Universe 2002-2231    | URL | Download |

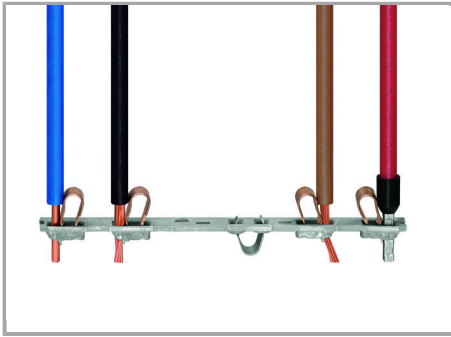
## Installation Notes

## Conductor termination

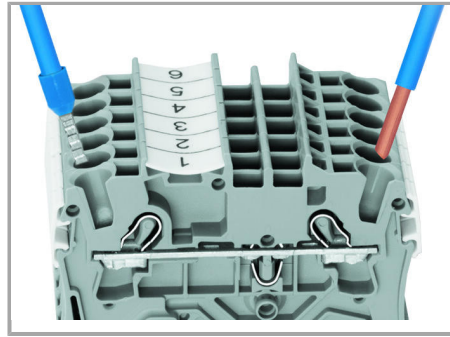
Subject to changes. Please also observe the further product documentation!

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 Email: [info.de@wago.com](mailto:info.de@wago.com) | Web: [www.wago.com](http://www.wago.com)

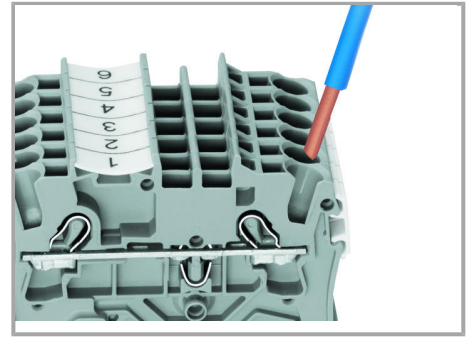
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All conductor types at a glance



Terminating solid and ferruled conductors via push-in connection.



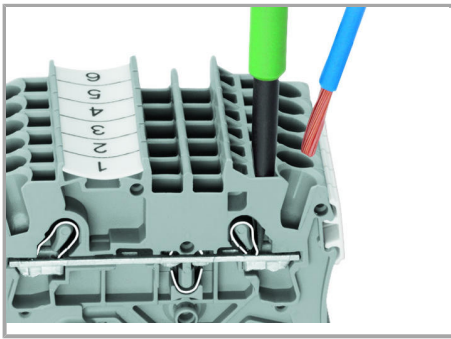
Inserting conductors via push-in termination.

**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.

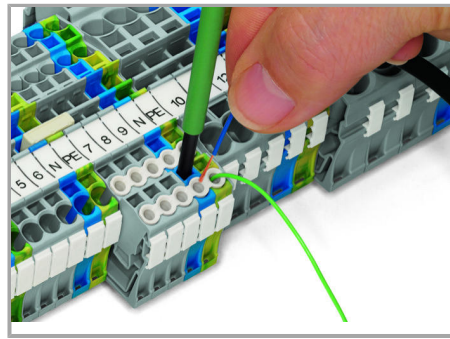
Subject to changes. Please also observe the further product documentation!

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Inserting a conductor via operating tool.



Conductor termination – Insulation stop.

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.

#### The smart feature:

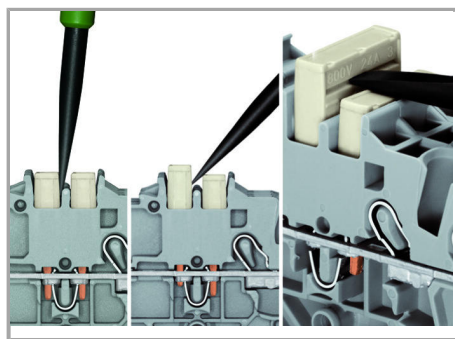
To open the clamp, the operating tool is inserted vertically. The conductor entry is less than 15 degrees for easier wiring.

#### Commoning

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

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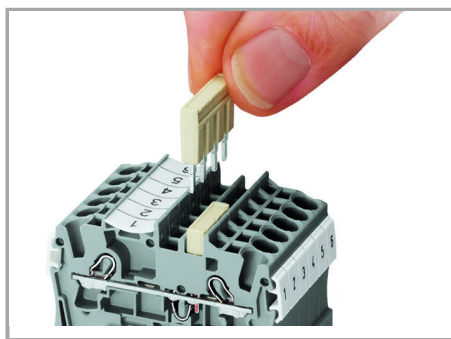
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#### Removing a push-in type jumper bar.

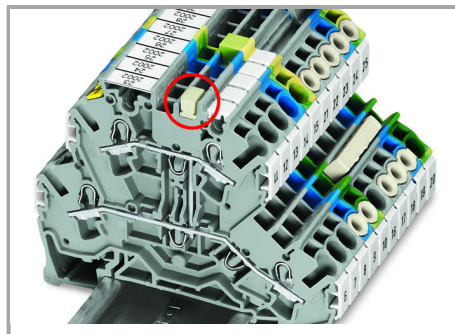
Insert the operating tool between the jumper and the partition wall of the dual jumper slots, then lift up the jumper.

Place the operating tool in the center of jumpers up to five contacts (see above), or alternately on both sides for jumpers with more than five contacts.



The push-in type jumper bar system is based on the common plug and socket principle. Each terminal block is spring-loaded with a double socket and a resilient CrNi steel spring. The jumper contact material is pure electrolytic copper, which allows for an extremely small design capable of carrying the full-rated current of the terminal block. Ground terminal blocks can also be commoned using the same jumper system. Custom jumpers are created by breaking and removing jumper contacts (2000, 2001, 2002, 2004 Series).

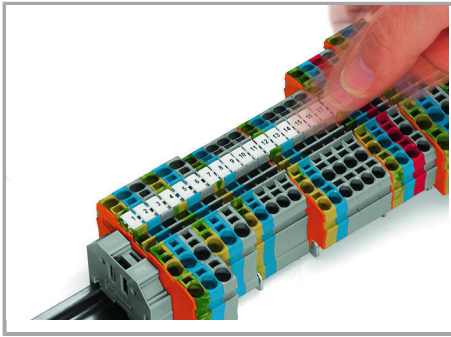
#### Commoning



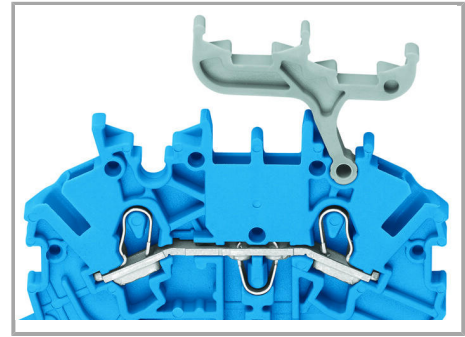
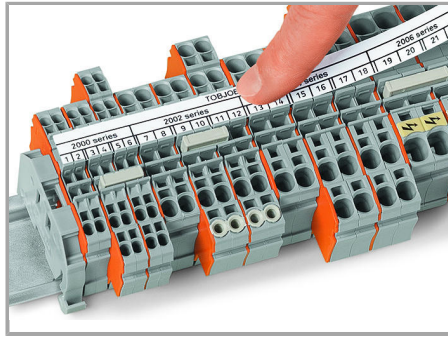
Commoning two levels via double-deck vertical jumper (2002-492).

#### Marking

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



Snapping WMB Inline markers into marker slots.



**Double-Deck Terminal Blocks** double-deck marker carrier (2002-121) 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!

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