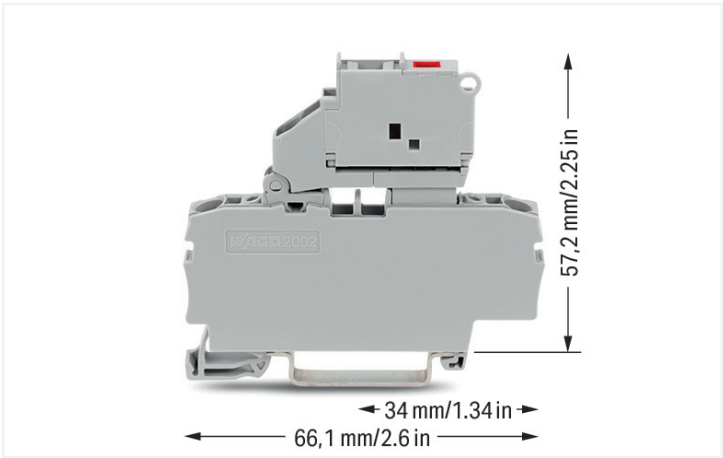


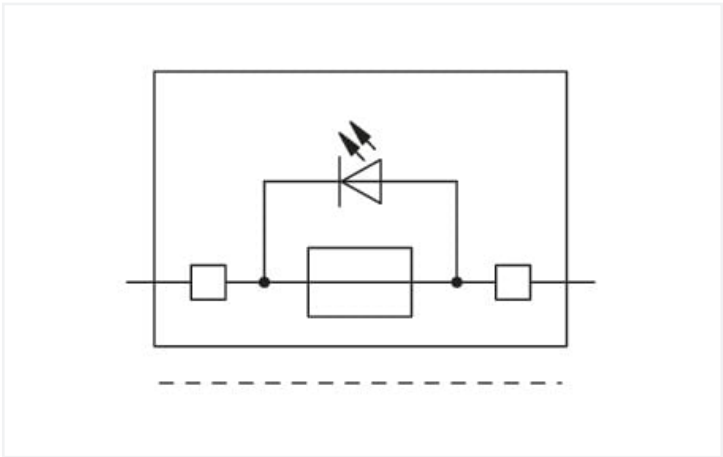
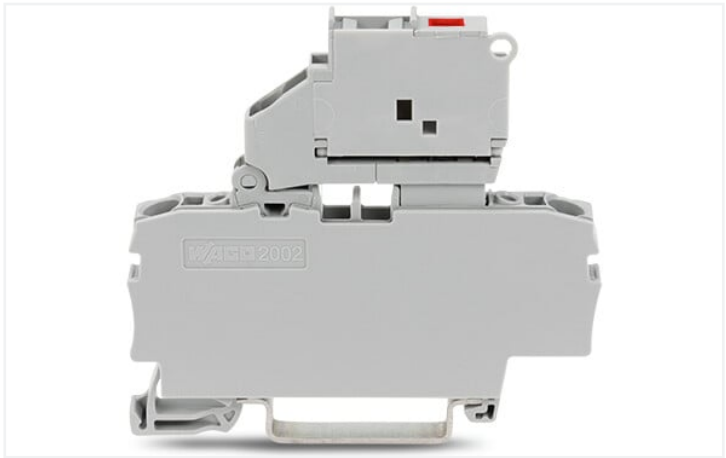
**Data Sheet | Item Number: 2002-1611/1000-541**

2-conductor fuse terminal block; with pivoting fuse holder; with end plate; for 5 x 20 mm miniature metric fuse; with blown fuse indication by LED; 12 - 30 V; 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

<https://www.wago.com/2002-1611/1000-541>



Color: ■ gray



**Electrical data**

| Ratings per          | IEC/EN 60947-7-3 |     |    |
|----------------------|------------------|-----|----|
| Overvoltage category | III              | III | II |
| Pollution degree     | 3                | 2   | 2  |
| Nominal voltage      | 250 V            | -   | -  |
| Rated surge voltage  | 6 kV             | -   | -  |
| Rated current        | 6.3 A            | -   | -  |

| Ratings per          | IEC/EN 60947-7-3 |     |    |
|----------------------|------------------|-----|----|
| Overvoltage category | III              | III | II |
| Pollution degree     | 3                | 2   | 2  |
| Nominal voltage      | 30 V             | -   | -  |
| Rated surge voltage  | 0.8 kV           | -   | -  |
| Rated current        | -                | -   | -  |

| Approvals per | UL 1059 |      |      |
|---------------|---------|------|------|
| Use group     | B       | C    | D    |
| Rated voltage | 30 V    | 30 V | 30 V |
| Rated current | 10 A    | 10 A | 10 A |

| Approvals per | CSA 22.2 No 158 |       |   |
|---------------|-----------------|-------|---|
| Use group     | B               | C     | D |
| Rated voltage | 250 V           | 250 V | - |
| Rated current | 6.3 A           | 6.3 A | - |

**Ex information**

|                            |                                                                                                     |
|----------------------------|-----------------------------------------------------------------------------------------------------|
| Reference hazardous areas  | See "Downloads – Documentation – Additional Information: Technical Section; Technical Explanations" |
| Ratings per                | ATEX: KIWA 17 ATEX 0030 U / IECEx: KIWA 17.0014U (Ex ec IIC Gc)                                     |
| Rated voltage EN (Ex e II) | 24 V                                                                                                |
| Rated current (Ex e II)    | 6.3 A                                                                                               |



| General information |                             |
|---------------------|-----------------------------|
| Fuse receptacle     | pivoting                    |
| Fuse type           | Cylindrical fuse; 5 x 20 mm |

| Connection data            |   |                                                            |                                                                                                                                   |
|----------------------------|---|------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| Connection points          | 2 | <b>Connection 1</b>                                        |                                                                                                                                   |
| Total number of potentials | 1 | Connection technology                                      | Push-in CAGE CLAMP®                                                                                                               |
| Number of levels           | 1 | Actuation type                                             | Operating tool                                                                                                                    |
| Number of jumper slots     | 2 | Connectable conductor materials                            | Copper                                                                                                                            |
|                            |   | Nominal cross-section                                      | 2.5 mm²                                                                                                                           |
|                            |   | Solid conductor                                            | 0.25 ... 4 mm² / 22 ... 12 AWG                                                                                                    |
|                            |   | Solid conductor; push-in termination                       | 0.75 ... 4 mm² / 18 ... 12 AWG                                                                                                    |
|                            |   | Fine-stranded conductor                                    | 0.25 ... 4 mm² / 22 ... 12 AWG                                                                                                    |
|                            |   | Fine-stranded conductor; with insulated ferrule            | 0.25 ... 2.5 mm² / 22 ... 14 AWG                                                                                                  |
|                            |   | Fine-stranded conductor; with ferrule; push-in termination | 1 ... 2.5 mm² / 18 ... 14 AWG                                                                                                     |
|                            |   | Note (conductor cross-section)                             | Depending on the conductor characteristic, a conductor with a smaller cross-section can also be inserted via push-in termination. |
|                            |   | Strip length                                               | 10 ... 12 mm / 0.39 ... 0.47 inches                                                                                               |
|                            |   | Wiring direction                                           | Front-entry wiring                                                                                                                |

| Physical data                     |  |                        |
|-----------------------------------|--|------------------------|
| Width                             |  | 6.2 mm / 0.244 inches  |
| Height                            |  | 66.1 mm / 2.602 inches |
| Depth from upper-edge of DIN-rail |  | 57.2 mm / 2.252 inches |

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

| Material data               |  |                                                                          |
|-----------------------------|--|--------------------------------------------------------------------------|
| Note (material data)        |  | <a href="#">Information on material specifications can be found here</a> |
| Color                       |  | gray                                                                     |
| Material group              |  | I                                                                        |
| Insulation material         |  | Polyamide (PA66)                                                         |
| Flammability class per UL94 |  | V0                                                                       |
| Fire load                   |  | 0.294 MJ                                                                 |
| Weight                      |  | 13.5 g                                                                   |



| Environmental requirements       |                |
|----------------------------------|----------------|
| Ambient temperature (operation)  | -35 ... +70 °C |
| Processing temperature           | -35 ... +70 °C |
| Continuous operating temperature | -35 ... +70 °C |

| Commercial data       |               |
|-----------------------|---------------|
| Product Group         | 22 (TOPJOB S) |
| eCl@ss 10.0           | 27-14-11-16   |
| eCl@ss 9.0            | 27-14-11-16   |
| ETIM 8.0              | EC000899      |
| ETIM 7.0              | EC000899      |
| PU (SPU)              | 50 pcs        |
| Packaging type        | Box           |
| Country of origin     | CN            |
| GTIN                  | 4066966335804 |
| Customs tariff number | 85369095000   |

| Environmental Product Compliance          |                                      |
|-------------------------------------------|--------------------------------------|
| CAS-No.                                   | 7439-92-1                            |
| REACH Candidate List Substance            | Lead                                 |
| RoHS Compliance Status                    | Compliant,With Exemption             |
| RoHS Exemption                            | 6(c)<br>7(a)<br>7(c)-I<br>7(c)-II    |
| SCIP notification number (Austria)        | a54f1676-ddf2-4f54-b9bd-f653d6986def |
| SCIP notification number (Belgium)        | e0161091-efa6-4165-8e03-8f14872dd495 |
| SCIP notification number (Bulgaria)       | 00dbba31-ac7c-4bef-9c68-f33ecd0f3e9b |
| SCIP notification number (Czech Republic) | 6eab5509-57ed-4a56-9ce0-711cbd687d07 |
| SCIP notification number (Denmark)        | c84188b4-b8cd-496e-bab7-f80edfcf86b2 |
| SCIP notification number (Finland)        | c315bf1a-a42c-489f-86d0-1c0f29190264 |
| SCIP notification number (France)         | 136746eb-42aa-44e7-869f-a928dd5c60f8 |
| SCIP notification number (Germany)        | 4674dd13-a982-47cf-b8ea-60b9bb4cc2e2 |
| SCIP notification number (Hungary)        | a278a177-ce31-4429-a3cf-791e4138a142 |
| SCIP notification number (Italy)          | f20875d1-c1ea-4503-b6c6-ccdb9a44241a |
| SCIP notification number (Netherlands)    | 1eb7922d-6d31-4d04-9c57-12561d36c3d7 |
| SCIP notification number (Poland)         | 0a8c3f45-4557-43d2-8205-9d8a88f5a474 |
| SCIP notification number (Romania)        | cc48fb51-f1b7-4e0a-8e47-4e7de466280b |
| SCIP notification number (Sweden)         | 108ad70b-a647-4a24-828f-9185ad23bce9 |

Approvals / Certificates

| General approvals                       |          |                  | Declarations of conformity and manufacturer's declarations |          |                  |
|-----------------------------------------|----------|------------------|------------------------------------------------------------|----------|------------------|
|                                         |          |                  |                                                            |          |                  |
| Approval                                | Standard | Certificate Name | Approval                                                   | Standard | Certificate Name |
| CCA<br>DEKRA Certification B.V.         | EN 60947 | NTR NL 7941      | ATEX-Attestation of Con-<br>formity<br>WAGO GmbH & Co. KG  | -        | -                |
| KEMA/KEUR<br>DEKRA Certification B.V.   | EN 60947 | 71-124163        | EU-Declaration of Confor-<br>mity<br>WAGO GmbH & Co. KG    | -        | -                |
| UL<br>Underwriters Laboratories<br>Inc. | UL 1059  | E45172           | Railway<br>WAGO GmbH & Co. KG                              | -        | Railway Ready    |



| Declarations of conformity and manufacturer's declarations |   |   |
|------------------------------------------------------------|---|---|
| UK-Declaration of Confor-                                  | - | - |
| mity                                                       |   |   |
| WAGO GmbH & Co. KG                                         |   |   |

| Approvals for marine applications                                                                                                                                                                    |          |                  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------------------|
| <div><div></div><div></div></div> |          |                  |
| Approval                                                                                                                                                                                             | Standard | Certificate Name |
| ABS<br>American Bureau of Ship-<br>ping                                                                                                                                                              | EN 60947 | 20-HG1941090-PDA |
| DNV GL<br>Det Norske Veritas, Ger-<br>manischer Lloyd                                                                                                                                                | -        | TAE00001V2       |

Approvals for hazardous areas

| <div><div></div><div><div>PTB 0102</div><div>Ex ec IIC Gc</div><div></div><div>II 3 G</div></div><div></div></div> |             |                                         |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------------------------|
| Approval                                                                                                                                                                                                                                                                                                                                                             | Standard    | Certificate Name                        |
| AEx<br>Underwriters Laboratories<br>Inc.                                                                                                                                                                                                                                                                                                                             | UL 60079    | E185892 (AEx eb IIC resp.<br>Ex eb IIC) |
| ATEX<br>KIWA Netherlands B.V.                                                                                                                                                                                                                                                                                                                                        | EN 60079    | KIWA 17ATEX0030 U                       |
| CCC<br>CNEX                                                                                                                                                                                                                                                                                                                                                          | GB/T 3836.3 | 2020312313000180 (Ex<br>ec IIC Gc)      |
| IECEx<br>KIWA Netherlands B.V.                                                                                                                                                                                                                                                                                                                                       | EN 60079    | IECEx KIWA 17.0014U (Ex<br>ec IIC Gc)   |

Downloads

Environmental Product Compliance

| Compliance Search                                         |                                                                                     |
|-----------------------------------------------------------|-------------------------------------------------------------------------------------|
| Environmental Product<br>Compliance<br>2002-1611/1000-541 |  |

Documentation

| Additional Information |                   | Bid Text                                                                              |                  |
|------------------------|-------------------|---------------------------------------------------------------------------------------|------------------|
| Technical Section      | pdf<br>2240.62 KB |    |                  |
|                        |                   | 2002-1611/1000-541                                                                    |                  |
|                        |                   | 29.04.2019                                                                            | xml<br>4.29 KB   |
|                        |                   |  |                  |
|                        |                   | 2002-1611/1000-541                                                                    |                  |
|                        |                   | 23.04.2019                                                                            | docx<br>15.45 KB |
|                        |                   |  |                  |

CAD/CAE-Data

| CAD data                           |                                                                                     | CAE data                                |                                                                                       |
|------------------------------------|-------------------------------------------------------------------------------------|-----------------------------------------|---------------------------------------------------------------------------------------|
| 2D/3D Models<br>2002-1611/1000-541 |  | EPLAN Data Portal<br>2002-1611/1000-541 |  |
|                                    |                                                                                     | WSCAD Universe<br>2002-1611/1000-541    |  |
|                                    |                                                                                     | ZUKEN Portal<br>2002-1611/1000-541      |  |



1 Compatible Products

1.1 Required Accessories

1.1.1 End plate

1.1.1.1 End plate



**Item No.: 209-191**  
Separator for Ex e/Ex i applications; 3 mm thick; 120 mm wide; orange

1.2 Optional Accessories

1.2.1 DIN-rail

1.2.1.1 Mounting accessories



**Item No.: 210-196**  
Aluminum carrier rail; 35 x 8.2 mm; 1.6 mm thick; 2 m long; unslotted; similar to EN 60715; silver-colored



**Item No.: 210-198**  
Copper carrier rail; 35 x 15 mm; 2.3 mm thick; 2 m long; unslotted; according to EN 60715; copper-colored



**Item No.: 210-508**  
Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; slotted; galvanized; similar to EN 60715; silver-colored



**Item No.: 210-197**  
Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; slotted; similar to EN 60715; silver-colored



**Item No.: 210-506**  
Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; unslotted; galvanized; similar to EN 60715; silver-colored



**Item No.: 210-114**  
Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; unslotted; similar to EN 60715; silver-colored



**Item No.: 210-118**  
Steel carrier rail; 35 x 15 mm; 2.3 mm thick; 2 m long; unslotted; according to EN 60715; silver-colored



**Item No.: 210-115**  
Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; slotted; according to EN 60715; "Hole width 18 mm; silver-colored



**Item No.: 210-112**  
Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; slotted; according to EN 60715; "Hole width 25 mm; silver-colored



**Item No.: 210-504**  
Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; slotted; galvanized; according to EN 60715; silver-colored



**Item No.: 210-113**  
Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; unslotted; according to EN 60715; silver-colored



**Item No.: 210-505**  
Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; unslotted; galvanized; according to EN 60715; silver-colored

1.2.2 End plate

1.2.2.1 End plate



**Item No.: 2002-991**  
End plate for fuse terminal blocks; 2 mm thick; gray



**Item No.: 2002-992**  
End plate for fuse terminal blocks; 2 mm thick; orange

1.2.3 Ferrule

1.2.3.1 Ferrule



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



**Item No.: 216-242**  
Ferrule; Sleeve for 0.75 mm² / 18 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; gray



**Item No.: 216-262**  
Ferrule; Sleeve for 0.75 mm² / 18 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; gray



**Item No.: 216-243**  
Ferrule; Sleeve for 1 mm² / AWG 18; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; red



1.2.3.1 Ferrule



**Item No.: 216-263**  
Ferrule; Sleeve for 1 mm² / AWG 18; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; red



**Item No.: 216-244**  
Ferrule; Sleeve for 1.5 mm² / AWG 16; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; black



**Item No.: 216-264**  
Ferrule; Sleeve for 1.5 mm² / AWG 16; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; black



**Item No.: 216-246**  
Ferrule; Sleeve for 2.5 mm² / AWG 14; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; blue



**Item No.: 216-266**  
Ferrule; Sleeve for 2.5 mm² / AWG 14; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; blue

1.2.4 Installation

1.2.4.1 Cover



**Item No.: 709-156**  
Cover; Type 3; suitable for cover carrier, type 3; 1 m long; transparent

1.2.4.2 Cover carrier



**Item No.: 709-169**  
Cover carrier; Type 3; 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

1.2.5 Insulation stop

1.2.5.1 Insulation stop



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



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

1.2.6 Jumper

1.2.6.1 Jumper



**Item No.: 2004-406/020-000**  
Delta jumper; insulated; light gray



**Item No.: 2004-410**  
Jumper; 10-way; insulated; light gray



**Item No.: 2004-402**  
Jumper; 2-way; insulated; light gray



**Item No.: 2004-403**  
Jumper; 3-way; insulated; light gray



**Item No.: 2004-404**  
Jumper; 4-way; insulated; light gray



**Item No.: 2004-405**  
Jumper; 5-way; insulated; light gray



**Item No.: 2004-406**  
Jumper; 6-way; insulated; light gray



**Item No.: 2004-407**  
Jumper; 7-way; insulated; light gray



1.2.6.1 Jumper



Item No.: 2004-408  
Jumper; 8-way; insulated; light gray



Item No.: 2004-409  
Jumper; 9-way; insulated; light gray



Item No.: 2004-440  
Jumper; from 1 to 10; insulated; light gray



Item No.: 2004-433  
Jumper; from 1 to 3; insulated; light gray



Item No.: 2004-434  
Jumper; from 1 to 4; insulated; light gray



Item No.: 2004-435  
Jumper; from 1 to 5; insulated; light gray



Item No.: 2004-436  
Jumper; from 1 to 6; insulated; light gray



Item No.: 2004-437  
Jumper; from 1 to 7; insulated; light gray



Item No.: 2004-438  
Jumper; from 1 to 8; insulated; light gray



Item No.: 2004-439  
Jumper; from 1 to 9; insulated; light gray



Item No.: 2004-405/011-000  
Star point jumper; 3-way; insulated; light gray



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



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

1.2.7 Locking system

1.2.7.1 Locking system



Item No.: 210-254  
Interlocking link; mechanically locks multiple links; 1 m long; transparent

1.2.8 Marking

1.2.8.1 Marker



Item No.: 2009-145/000-006  
Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; blue



Item No.: 2009-145/000-007  
Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; gray



Item No.: 2009-145/000-023  
Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; green



Item No.: 2009-145/000-012  
Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; orange



Item No.: 2009-145/000-005  
Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; red



Item No.: 2009-145/000-024  
Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; violet



Item No.: 2009-145  
Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; white



Item No.: 2009-145/000-002  
Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; yellow



Item No.: 248-501/000-006  
Mini-WSB marking card; as card; not stretchable; plain; snap-on type; blue



Item No.: 248-501/000-007  
Mini-WSB marking card; as card; not stretchable; plain; snap-on type; gray



Item No.: 248-501/000-023  
Mini-WSB marking card; as card; not stretchable; plain; snap-on type; green



Item No.: 248-501/000-017  
Mini-WSB marking card; as card; not stretchable; plain; snap-on type; light green



Item No.: 248-501/000-012  
Mini-WSB marking card; as card; not stretchable; plain; snap-on type; orange



Item No.: 248-501/000-005  
Mini-WSB marking card; as card; not stretchable; plain; snap-on type; red



Item No.: 248-501/000-024  
Mini-WSB marking card; as card; not stretchable; plain; snap-on type; violet



Item No.: 248-501  
Mini-WSB marking card; as card; not stretchable; plain; snap-on type; white



Item No.: 248-501/000-002  
Mini-WSB marking card; as card; not stretchable; plain; snap-on type; yellow



Item No.: 793-5501/000-006  
WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; blue



Item No.: 793-5501/000-014  
WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; brown



Item No.: 793-5501/000-007  
WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; gray



1.2.8.1 Marker



**Item No.: 793-5501/000-023**  
WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; green



**Item No.: 793-5501/000-017**  
WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; light green



**Item No.: 793-5501/000-012**  
WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; orange



**Item No.: 793-5501/000-005**  
WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; red



**Item No.: 793-5501/000-024**  
WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; violet



**Item No.: 793-5501**  
WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; white



**Item No.: 793-5501/000-002**  
WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; yellow



**Item No.: 2009-115/000-006**  
WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; blue



**Item No.: 2009-115/000-007**  
WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; gray



**Item No.: 2009-115/000-023**  
WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; green



**Item No.: 2009-115/000-017**  
WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; light green



**Item No.: 2009-115/000-012**  
WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; orange



**Item No.: 2009-115/000-005**  
WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; red



**Item No.: 2009-115/000-024**  
WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; violet



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



**Item No.: 2009-115/000-002**  
WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; yellow

1.2.8.2 Marking strip



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

1.2.9 Protective warning marker

1.2.9.1 Cover



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

1.2.10 Screwless end stop

1.2.10.1 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

1.2.11 Test and measurement

1.2.11.1 Testing accessories



Item No.: 210-136  
Test plug; 2 mm Ø; with 500 mm cable; red

1.2.12 Tool

1.2.12.1 Operating tool



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



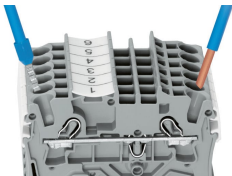
Item No.: 210-720  
Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; multicoloured

Installation Notes

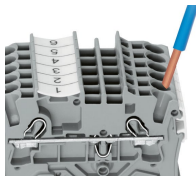
Conductor termination



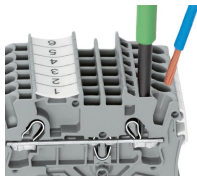
All conductor types at a glance



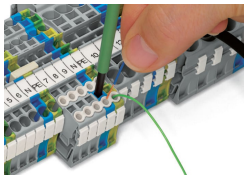
Push-in termination of solid and ferruled conductors



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

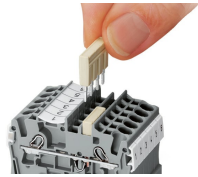


**Inserting a conductor via operating tool:**  
Connecting fine-stranded conductors without ferrules, or small cross-sectional conductors that cannot be pushed in, is performed similarly to the original CAGE CLAMP® – just use an operating tool.  
**Advantage:**  
To open the clamp, the operating tool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

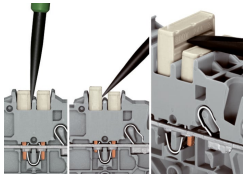


Conductor termination – insulation stop

Commoning



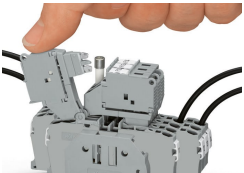
Insert push-in type jumper bar and push down until it hits backstop.



**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.



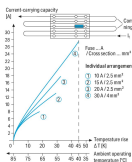
Fuse terminal blocks with a width of 6.2 mm/0.244 in can be assembled adjacently. If there is no adjacent fuse terminal block at the end of the assembly, an end plate must be used.



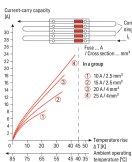
**Fused Disconnect Terminal Block with a Pivoting Fuse Holder**  
Pivot the fuse holder into the locked open position.



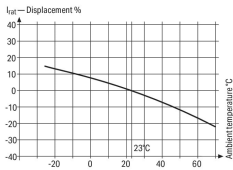
**Fused disconnect terminal block with a pivoting fuse holder**  
Fuse replacement



**Application Notes on Terminal Blocks for Glass Cartridge Fuses**  
Diagram: "Individual Arrangement"



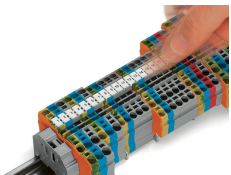
**Application Notes on Terminal Blocks for Glass Cartridge Fuses**  
Diagram: "Block Arrangement"



| Information from the mini-automotive, blade-type fuse manufacturers |          |       |                |
|---------------------------------------------------------------------|----------|-------|----------------|
| Designing                                                           | Temp. °C | %     | F <sub>1</sub> |
| -25                                                                 | 14       | 0.877 |                |
| -15                                                                 | 13       | 0.885 |                |
| -5                                                                  | 12       | 0.893 |                |
| 5                                                                   | 11       | 0.901 |                |
| 15                                                                  | 10       | 0.909 |                |
| 25                                                                  | 9        | 0.917 |                |
| 35                                                                  | 8        | 0.925 |                |
| 45                                                                  | 7        | 0.933 |                |
| 55                                                                  | 6        | 0.941 |                |
| 65                                                                  | 5        | 0.949 |                |
| 75                                                                  | 4        | 0.957 |                |
| 85                                                                  | 3        | 0.965 |                |
| 95                                                                  | 2        | 0.973 |                |
| 105                                                                 | 1        | 0.981 |                |
| 115                                                                 | 0        | 0.989 |                |
| 125                                                                 | -1       | 0.997 |                |
| 135                                                                 | -2       | 1.005 |                |
| 145                                                                 | -3       | 1.013 |                |
| 155                                                                 | -4       | 1.021 |                |
| 165                                                                 | -5       | 1.029 |                |
| 175                                                                 | -6       | 1.037 |                |
| 185                                                                 | -7       | 1.045 |                |
| 195                                                                 | -8       | 1.053 |                |
| 205                                                                 | -9       | 1.061 |                |
| 215                                                                 | -10      | 1.069 |                |
| 225                                                                 | -11      | 1.077 |                |
| 235                                                                 | -12      | 1.085 |                |
| 245                                                                 | -13      | 1.093 |                |
| 255                                                                 | -14      | 1.101 |                |
| 265                                                                 | -15      | 1.109 |                |
| 275                                                                 | -16      | 1.117 |                |
| 285                                                                 | -17      | 1.125 |                |
| 295                                                                 | -18      | 1.133 |                |
| 305                                                                 | -19      | 1.141 |                |
| 315                                                                 | -20      | 1.149 |                |
| 325                                                                 | -21      | 1.157 |                |
| 335                                                                 | -22      | 1.165 |                |

Concerning product safety, fuse cartridges must generally be tested under both normal and faulty operating conditions within your application.

Marking



Snapping WMB Inline markers into marker slots.

