

## Marshalling panel - FTRV 8 /WHRD - 3270187

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Marshalling panel, without actuation lever, nom. voltage: 250 V, nominal current: 8 A, cross section: 0.14 mm<sup>2</sup> - 2.5 mm<sup>2</sup>, AWG: 14 - 26, connection method: Push-in connection, number of positions: 2, number of connections: 32, width: 8.3 mm, length: 100 mm, color: gray, color of connection elements: white, red, mounting: NS 35/7,5, NS 35/15

### Your advantages

- ✓ High contact quality thanks to push-in technology as a replacement for Wire-Wrap®, TERMI-POINT®, etc.
- ✓ Tool-free wiring in a confined space thanks to compact size
- ✓ Individual color assignment of cable and terminal point to ensure error-free, safe operation
- ✓ The 2.3 mm test connection enables testing between the conductors with test pins commonly used in the industry



### Key Commercial Data

|              |               |
|--------------|---------------|
| Packing unit | 10 pc         |
| GTIN         |               |
| GTIN         | 4046356796347 |

### Technical data

#### General

|  |                                   |
|--|-----------------------------------|
| Number of positions                    | 2                                 |
| Number of levels                       | 8                                 |
| Number of connections                  | 32                                |
| Potentials                             | 8                                 |
| Nominal cross section                  | 1.5 mm <sup>2</sup>               |
| Color                                  | gray                              |
| Color of connection elements           | white (4x top)<br>red (4x bottom) |
| Insulating material                    | PA                                |
| Flammability rating according to UL 94 | V0                                |
| Rated surge voltage                    | 4 kV                              |
| Overvoltage category                   | III                               |

# Marshalling panel - FTRV 8 /WHRD - 3270187

## Technical data

### General

|   |  |
|---|--|
| Insulating material group   | I  |
| Maximum power dissipation for nominal condition                         | 0.56 W (the value is multiplied when connecting multiple levels)       |
| Maximum load current  | 8 A (with 1.5 mm <sup>2</sup> conductor cross section)                 |
| Nominal current I <sub>N</sub>  | 8 A  |
| Nominal voltage U <sub>N</sub>  | 250 V  |
| Open side panel   | Yes  |
| Ambient temperature (operation)   | -60 °C ... 85 °C   |
| Ambient temperature (storage/transport)                                 | -25 °C ... 55 °C (For a short time, not exceeding 24 h, -60 to +70 °C) |
| Permissible humidity (storage/transport)                                | 30 % ... 70 %  |
| Ambient temperature (assembly)  | -5 °C ... 70 °C  |
| Ambient temperature (actuation)   | -5 °C ... 70 °C  |
| Relative insulation material temperature index (Elec., UL 746 B)        | 130 °C   |
| Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21)) | 125 °C   |
| Static insulating material application in cold                          | -60 °C   |
| Surface flammability NFPA 130 (ASTM E 162)                              | passed   |
| Specific optical density of smoke NFPA 130 (ASTM E 662)                 | passed   |
| Calorimetric heat release NFPA 130 (ASTM E 1354)                        | 27,5 MJ/kg   |
| Smoke gas toxicity NFPA 130 (SMP 800C)                                  | passed   |
| Fire protection for rail vehicles (DIN EN 45545-2) R22                  | HL 1 - HL 3  |
| Fire protection for rail vehicles (DIN EN 45545-2) R23                  | HL 1 - HL 3  |
| Fire protection for rail vehicles (DIN EN 45545-2) R24                  | HL 1 - HL 3  |
| Fire protection for rail vehicles (DIN EN 45545-2) R26                  | HL 1 - HL 3  |

### Dimensions

|                  |         |
|------------------|---------|
| Width            | 8.3 mm  |
| Length           | 100 mm  |
| Height NS 35/7,5 | 87.5 mm |
| Height NS 35/15  | 95 mm   |

### Connection data

|  |   |
|--|---|
| Connection                                 | 1st, 2nd, 3rd, 4th, 5th, 6th, 7th and 8th level |
| Connection method                          | Push-in connection                              |
| Stripping length                           | 8 mm ... 10 mm                                  |
| Connection in acc. with standard           | IEC 60947-7-1                                   |
| Conductor cross section solid min.         | 0.14 mm <sup>2</sup>                            |
| Conductor cross section solid max.         | 2.5 mm <sup>2</sup>                             |
| Conductor cross section AWG min.           | 26  |
| Conductor cross section AWG max.           | 14  |
| Conductor cross section flexible min.      | 0.14 mm <sup>2</sup>                            |
| Conductor cross section flexible max.      | 1.5 mm <sup>2</sup>                             |
| Min. AWG conductor cross section, flexible | 26  |

# Marshalling panel - FTRV 8 /WHRD - 3270187

## Technical data

### Connection data

|  |  |
|--|--|
| Max. AWG conductor cross section, flexible                                 | 14   |
| Conductor cross section flexible, with ferrule without plastic sleeve min. | 0.14 mm <sup>2</sup>                           |
| Conductor cross section flexible, with ferrule without plastic sleeve max. | 1.5 mm <sup>2</sup>                            |
| Conductor cross section flexible, with ferrule with plastic sleeve min.    | 0.14 mm <sup>2</sup>                           |
| Conductor cross section flexible, with ferrule with plastic sleeve max.    | 1.5 mm <sup>2</sup>                            |
| Connection cross sections directly pluggable                               | 0.34 mm <sup>2</sup> 2.5 mm <sup>2</sup> 20 14 |
| Conductor cross section solid min.   | 0.34 mm <sup>2</sup>                           |
| Conductor cross section solid max.   | 2.5 mm <sup>2</sup>                            |
| Conductor cross section flexible, with ferrule without plastic sleeve min. | 0.34 mm <sup>2</sup>                           |
| Conductor cross section flexible, with ferrule without plastic sleeve max. | 1.5 mm <sup>2</sup>                            |
| Conductor cross section flexible, with ferrule with plastic sleeve min.    | 0.34 mm <sup>2</sup>                           |
| Conductor cross section flexible, with ferrule with plastic sleeve max.    | 1.5 mm <sup>2</sup>                            |

### Standards and Regulations

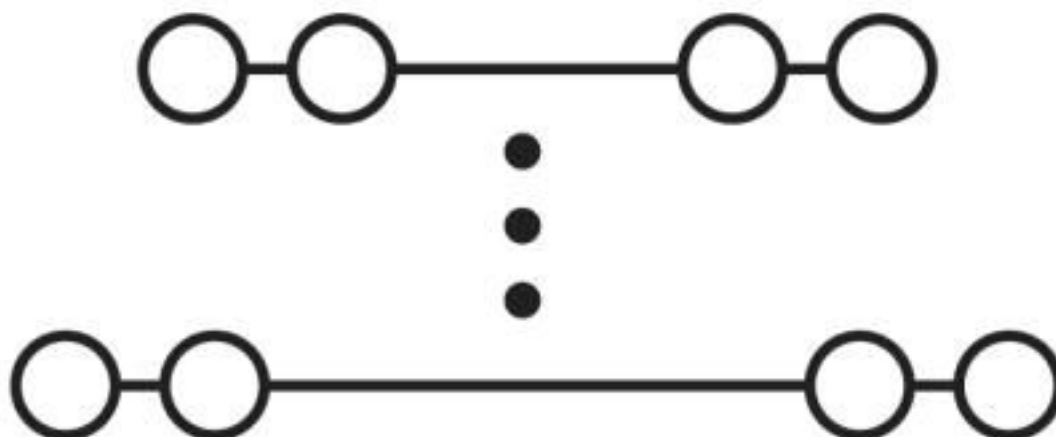
|  |               |
|--|---------------|
| Connection in acc. with standard       | IEC 60947-7-1 |
| Flammability rating according to UL 94 | V0            |

### Environmental Product Compliance

|            |   |
|------------|---|
| China RoHS | Environmentally friendly use period: unlimited = EFUP-e |
|            | No hazardous substances above threshold values          |

## Drawings

Circuit diagram



## Classifications

eCl@ss

|               |          |
|---------------|----------|
| eCl@ss 10.0.1 | 27141141 |
| eCl@ss 4.0    | 27141100 |

# Marshalling panel - FTRV 8 /WHRD - 3270187

## Classifications

### eCl@ss

|            |          |
|------------|----------|
| eCl@ss 4.1 | 27141100 |
| eCl@ss 5.0 | 27141100 |
| eCl@ss 5.1 | 27141100 |
| eCl@ss 6.0 | 27141100 |
| eCl@ss 7.0 | 27141141 |
| eCl@ss 8.0 | 27141141 |
| eCl@ss 9.0 | 27141141 |

### ETIM

|          |          |
|----------|----------|
| ETIM 3.0 | EC000901 |
| ETIM 4.0 | EC000901 |
| ETIM 5.0 | EC000901 |
| ETIM 6.0 | EC000901 |
| ETIM 7.0 | EC000901 |

### UNSPSC

|               |          |
|---------------|----------|
| UNSPSC 6.01   | 30211811 |
| UNSPSC 7.0901 | 39121410 |
| UNSPSC 11     | 39121410 |
| UNSPSC 12.01  | 39121410 |
| UNSPSC 13.2   | 39121410 |
| UNSPSC 18.0   | 39121410 |
| UNSPSC 19.0   | 39121410 |
| UNSPSC 20.0   | 39121410 |
| UNSPSC 21.0   | 39121410 |

## Approvals

### Approvals

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Approvals

DNV GL / CSA / UL Recognized / KEMA-KEUR / cUL Recognized / IECCE CB Scheme / EAC / EAC / cULus Recognized

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### Ex Approvals

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Approval details

|        |  |   |            |
|--------|--|---|------------|
| DNV GL |  | <a href="https://approvalfinder.dnvgl.com/">https://approvalfinder.dnvgl.com/</a> | TAE000016Y |
|--------|--|---|------------|

# Marshalling panel - FTRV 8 /WHRD - 3270187

## Approvals

|                            |       |   |       |
|----------------------------|-------|---|-------|
| CSA                        |       | <a href="http://www.csagroup.org/services-industries/product-listing/">http://www.csagroup.org/services-industries/product-listing/</a> | 13631 |
|                            | B     | D   |       |
| Nominal voltage UN         | 300 V | 300 V   |       |
| Nominal current IN         | 10 A  | 10 A  |       |
| mm <sup>2</sup> /AWG/kcmil | 26-14 | 26-14   |       |

|                            |       |   |              |
|----------------------------|-------|---|--------------|
| UL Recognized              |       | <a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a> | FILE E 60425 |
|                            | D     |   |              |
| Nominal voltage UN         | 300 V |   |              |
| Nominal current IN         | 10 A  |   |              |
| mm <sup>2</sup> /AWG/kcmil | 26-14 |   |              |

|                            |          |   |           |
|----------------------------|----------|---|-----------|
| KEMA-KEUR                  |          | <a href="http://www.dekra-certification.com">http://www.dekra-certification.com</a> | 71-102890 |
| Nominal voltage UN         | 250 V    |   |           |
| Nominal current IN         | 8 A      |   |           |
| mm <sup>2</sup> /AWG/kcmil | 0.14-2.5 |   |           |

|                            |       |   |              |
|----------------------------|-------|---|--------------|
| cUL Recognized             |       | <a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a> | FILE E 60425 |
|                            | D     |   |              |
| Nominal voltage UN         | 300 V |   |              |
| Nominal current IN         | 10 A  |   |              |
| mm <sup>2</sup> /AWG/kcmil | 26-14 |   |              |

|                    |       |   |          |
|--------------------|-------|---|----------|
| IECEE CB Scheme    |       | <a href="http://www.iecee.org/">http://www.iecee.org/</a> | NL-58817 |
| Nominal voltage UN | 250 V |   |          |
| Nominal current IN | 8 A   |   |          |

# Marshalling panel - FTRV 8 /WHRD - 3270187

## Approvals

|     |  |                          |
|-----|--|--------------------------|
| EAC |  | RU C-<br>DE.A*30.B.01742 |
|-----|--|--------------------------|

|     |  |                          |
|-----|--|--------------------------|
| EAC |  | RU C-<br>DE.BL08.B.00682 |
|-----|--|--------------------------|

|                  |  |  |
|------------------|--|--|
| cULus Recognized |  |  |
|------------------|--|--|

## Accessories

### Accessories

#### DIN rail

DIN rail perforated - NS 35/ 7,5 PERF 2000MM - 0801733



DIN rail perforated, Standard profile, width: 35 mm, height: 7.5 mm, acc. to EN 60715, material: Steel, galvanized, passivated with a thick layer, length: 2000 mm, color: silver

DIN rail, unperforated - NS 35/ 7,5 UNPERF 2000MM - 0801681



DIN rail, unperforated, Standard profile, width: 35 mm, height: 7.5 mm, acc. to EN 60715, material: Steel, galvanized, passivated with a thick layer, length: 2000 mm, color: silver

DIN rail perforated - NS 35/ 7,5 WH PERF 2000MM - 1204119



DIN rail perforated, Standard profile, width: 35 mm, height: 7.5 mm, acc. to EN 60715, material: Steel, Galvanized, white passivated, length: 2000 mm, color: silver

## Marshalling panel - FTRV 8 /WHRD - 3270187

### Accessories

DIN rail, unperforated - NS 35/ 7,5 WH UNPERF 2000MM - 1204122



DIN rail, unperforated, Standard profile, width: 35 mm, height: 7.5 mm, acc. to EN 60715, material: Steel, Galvanized, white passivated, length: 2000 mm, color: silver

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DIN rail, unperforated - NS 35/ 7,5 AL UNPERF 2000MM - 0801704



DIN rail, unperforated, Standard profile, width: 35 mm, height: 7.5 mm, acc. to EN 60715, material: Aluminum, uncoated, length: 2000 mm, color: silver

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DIN rail perforated - NS 35/ 7,5 ZN PERF 2000MM - 1206421



DIN rail perforated, Standard profile, width: 35 mm, height: 7.5 mm, acc. to EN 60715, material: Steel, galvanized, length: 2000 mm, color: silver

---

DIN rail, unperforated - NS 35/ 7,5 ZN UNPERF 2000MM - 1206434



DIN rail, unperforated, Standard profile, width: 35 mm, height: 7.5 mm, acc. to EN 60715, material: Steel, galvanized, length: 2000 mm, color: silver

---

DIN rail, unperforated - NS 35/ 7,5 CU UNPERF 2000MM - 0801762



DIN rail, unperforated, Standard profile, width: 35 mm, height: 7.5 mm, acc. to EN 60715, material: Copper, uncoated, length: 2000 mm, color: copper-colored

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# Marshalling panel - FTRV 8 /WHRD - 3270187

## Accessories

End cap - NS 35/ 7,5 CAP - 1206560

DIN rail end piece, for DIN rail NS 35/7.5



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## Documentation

Mounting material - PT-IL - 3208090



Operating decal for the push-in Technology

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## End block

End clamp - CLIPFIX 35 - 3022218



Quick mounting end clamp for NS 35/7,5 DIN rail or NS 35/15 DIN rail, with marking option, width: 9.5 mm, color: gray

End clamp - CLIPFIX 35-5 - 3022276



Quick mounting end clamp for NS 35/7,5 DIN rail or NS 35/15 DIN rail, with marking option, with parking option for FBS...5, FBS...6, KSS 5, KSS 6, width: 5.15 mm, color: gray

End clamp - E/NS 35 N - 0800886



End clamp, width: 9.5 mm, color: gray



## Marshalling panel - FTRV 8 /WHRD - 3270187

### Accessories

End clamp - E/UK - 1201442



End clamp, width: 9.5 mm, height: 35.3 mm, material: PA, length: 50.5 mm, Mounting on a DIN rail NS 32 or NS 35, color: gray

---

End clamp - E/UK 1 - 1201413



End clamps, for supporting the ends of double-level and three-level terminal blocks, width: 10 mm, color: gray

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End cover

End cover - D-PTRV 8 WH - 3270154



End cover, length: 100 mm, width: 3.8 mm, height: 80.8 mm, color: white

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End cover - D-PTRV 8 WH 1-8 - 3270155



End cover, length: 100 mm, width: 2.2 mm, height: 80.8 mm, color: white

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End cover - D-PTRV 8 WH 1-8 LGS - 3270240



End cover, length: 100 mm, width: 2.2 mm, height: 80.8 mm, color: white

---

## Marshalling panel - FTRV 8 /WHRD - 3270187

### Accessories

End cover - D-PTRV 8 WH 8-1 - 3270242



End cover, length: 100 mm, width: 2.2 mm, height: 80.8 mm, color: white

---

End cover - D-PTRV 8 WH 8-1 LGS - 3270244



End cover, length: 100 mm, width: 2.2 mm, height: 80.8 mm, color: white

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End cover - D-PTRV 8 WH 1-16 - 3270228



End cover, length: 100 mm, width: 2.2 mm, height: 80.8 mm, color: white

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End cover - D-PTRV 8 WH 1-16 LGS - 3270229



End cover, length: 100 mm, width: 2.2 mm, height: 80.8 mm, color: white

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End cover - D-PTRV 8 WH 9-16 - 3270211



End cover, length: 100 mm, width: 2.2 mm, height: 80.8 mm, color: white

---

## Marshalling panel - FTRV 8 /WHRD - 3270187

### Accessories

End cover - D-PTRV 8 WH 9-16 LGS - 3270212



End cover, length: 100 mm, width: 2.2 mm, height: 80.8 mm, color: white

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End cover - D-PTRV 8 WH 17-24 - 3270213



End cover, length: 100 mm, width: 2.2 mm, height: 80.8 mm, color: white

---

End cover - D-PTRV 8 WH 17-24 LGS - 3270214



End cover, length: 100 mm, width: 2.2 mm, height: 80.8 mm, color: white

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End cover - D-PTRV 8 WH 25-32 - 3270215



End cover, length: 100 mm, width: 2.2 mm, height: 80.8 mm, color: white

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End cover - D-PTRV 8 WH 25-32 LGS - 3270216



End cover, length: 100 mm, width: 2.2 mm, height: 80.8 mm, color: white

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## Marshalling panel - FTRV 8 /WHRD - 3270187

### Accessories

End cover - D-PTRV 8 WH A-H - 3270156



End cover, length: 100 mm, width: 2.2 mm, height: 80.8 mm, color: white

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End cover - D-PTRV 8 WH A-H LGS - 3270241



End cover, length: 100 mm, width: 2.2 mm, height: 80.8 mm, color: white

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End cover - D-PTRV 8 WH H-A - 3270243



End cover, length: 100 mm, width: 2.2 mm, height: 80.8 mm, color: white

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End cover - D-PTRV 8 WH H-A LGS - 3270245



End cover, length: 100 mm, width: 2.2 mm, height: 80.8 mm, color: white

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### Insulating sleeve

Insulating sleeve - MPS-IH WH - 0201663

Insulating sleeve, color: white



## Marshalling panel - FTRV 8 /WHRD - 3270187

### Accessories

Insulating sleeve - MPS-IH RD - 0201676

Insulating sleeve, color: red



Insulating sleeve - MPS-IH BU - 0201689

Insulating sleeve, color: blue



Insulating sleeve - MPS-IH YE - 0201692

Insulating sleeve, color: yellow



Insulating sleeve - MPS-IH GN - 0201702

Insulating sleeve, color: green



Insulating sleeve - MPS-IH GY - 0201728

Insulating sleeve, color: gray



## Marshalling panel - FTRV 8 /WHRD - 3270187

### Accessories

Insulating sleeve - MPS-IH BK - 0201731

Insulating sleeve, color: black



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### Labeled terminal marker

Zack marker strip - ZB 8,3,LGS:FORTL.ZAHLEN - 0803480



Zack marker strip, Strip, white, labeled, can be labeled with: CMS-P1-PLOTTER, mounting type: snap into tall marker groove, for terminal block width: 8.3 mm, lettering field size: 10.5 x 8.3 mm

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Zack marker strip - ZB 8,3,QR:FORTL.ZAHLEN - 0803479



Zack marker strip, Strip, white, labeled, can be labeled with: CMS-P1-PLOTTER, mounting type: snap into tall marker groove, for terminal block width: 8.3 mm, lettering field size: 10.5 x 8.3 mm

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Zack marker strip - ZB 8,3 CUS - 8191573



Zack marker strip, Strip, white, labeled according to customer specifications, mounting type: snap into tall marker groove, for terminal block width: 8.3 mm, lettering field size: 10.5 x 8.3 mm

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Marker for terminal blocks - TM-PTRV 8,QR:1-8 - 0803468



Marker for terminal blocks, white, labeled, mounting type: snapped, for terminal block width: 8 mm, lettering field size: 2,4x 9,2 mm, Number of individual labels: 2

## Marshalling panel - FTRV 8 /WHRD - 3270187

### Accessories

Marker for terminal blocks - TM-PTRV 8,QR:8-1 - 0803470



Marker for terminal blocks, white, labeled, mounting type: snapped, for terminal block width: 8 mm, lettering field size: 2,4x 9,2 mm

Marker for terminal blocks - TM-PTRV 8,QR:A-H - 0803471



Marker for terminal blocks, white, labeled, mounting type: snapped, for terminal block width: 8 mm, lettering field size: 2,4x 9,2 mm

Marker for terminal blocks - TM-PTRV 8,QR:H-A - 0803473



Marker for terminal blocks, white, labeled, mounting type: snapped, for terminal block width: 8 mm, lettering field size: 2,4x 9,2 mm, Number of individual labels: 8

### Mounting material

Retaining bracket - CDC-PTRV - 3270167



Retaining bracket, via four PTRV single modules, pitch: 8.3 mm, width: 35.6 mm, height: 71.5 mm, color: gray

### Partition plate

Spacer plate - DP-PTRV 8 - 3270166



Spacer plate, length: 100 mm, width: 8.3 mm, height: 86 mm, color: gray

### Screwdriver tools

## Marshalling panel - FTRV 8 /WHRD - 3270187

### Accessories

Screwdriver - SZF 0-0,4X2,5 - 1204504



Actuation tool, for ST terminal blocks, also suitable for use as a bladed screwdriver, size: 0.4 x 2.5 x 75 mm, 2-component grip, with non-slip grip

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Actuation tool - ST-BW 0 - 1200135



Actuation tool, for all 1.5 mm<sup>2</sup> spring cages from PT 1,5/S and FT 1,5/S

### Terminal marking

Zack marker strip - ZB 8,3:UNBEDRUCKT - 0803444



Zack marker strip, Strip, white, unlabeled, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, mounting type: snap into tall marker groove, for terminal block width: 8.3 mm, lettering field size: 10.5 x 8.3 mm

### Test plug terminal block

Reducing plug - RPS - 0201647



Reducing plug, color: gray

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Test plugs - MPS-MT - 0201744



Test plugs, with solder connection up to 1 mm<sup>2</sup> conductor cross section, color: gray

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