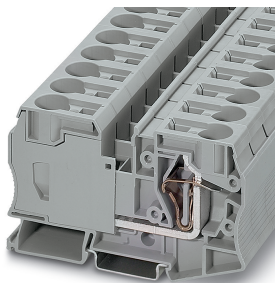


## Feed-through terminal block - ST 35 - 3036178

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Feed-through terminal block, nom. voltage: 1000 V, nominal current: 125 A, number of connections: 2, connection method: Spring-cage connection, 1 level, Rated cross section: 35 mm<sup>2</sup>, cross section: 2.5 mm<sup>2</sup> - 35 mm<sup>2</sup>, mounting type: NS 35/7,5, NS 35/15, color: gray

### Your advantages

- ✓ The flexible options for reducing bridging in the CLIPLINE complete system can be found in "Accessories for the CLIPLINE complete modular terminal block system"
- ✓ The double bridge shaft not only enables individual chain bridging, but also reducing bridging to spring-cage terminal blocks with smaller cross sections



### Key Commercial Data

|                                      |   |
|--------------------------------------|---|
| Packing unit                         | 10 pc   |
| Minimum order quantity               | 10 pc   |
| GTIN                                 | <br>4 017918 821043 |
| GTIN                                 | 4017918821043   |
| Weight per Piece (excluding packing) | 84.150 g  |
| Custom tariff number                 | 85369010  |
| Country of origin                    | Poland  |

### Technical data

#### General

|  |                    |
|--|--------------------|
| Number of rows                         | 1                  |
| Number of connections                  | 2                  |
| Potentials                             | 1                  |
| Nominal cross section                  | 35 mm <sup>2</sup> |
| Color                                  | gray               |
| Insulating material                    | PA                 |
| Flammability rating according to UL 94 | V0                 |
| Mounting type                          | NS 35/7,5          |

# Feed-through terminal block - ST 35 - 3036178

## Technical data

### General

|   |   |
|---|---|
| Rated surge voltage   | 8 kV  |
| Degree of pollution   | 3   |
| Overvoltage category  | III   |
| Insulating material group   | I   |
| Maximum load current  | 125 A (with 35 mm <sup>2</sup> conductor cross section) |
| Nominal current I <sub>N</sub>  | 125 A   |
| Nominal voltage U <sub>N</sub>  | 1000 V  |
| Open side panel   | No  |
| Shock protection test specification   | DIN EN 50274 (VDE 0660-514):2002-11                     |
| Back of the hand protection   | guaranteed  |
| Result of surge voltage test  | Test passed   |
| Result of power-frequency withstand voltage test  | Test passed   |
| Power frequency withstand voltage setpoint  | 2.2 kV  |
| Result of the test for mechanical stability of terminal points (5 x conductor connection) | Test passed   |
| Result of flexion and pull-out test   | Test passed   |
| Bending test rotation speed   | 10 rpm  |
| Bending test turns  | 135   |
| Bending test conductor cross section/weight   | 2.5 mm <sup>2</sup> / 0.7 kg                            |
|   | 35 mm <sup>2</sup> / 6.8 kg                             |
| Tensile test result   | Test passed   |
| Result of tight fit on support  | Test passed   |
| Tight fit on carrier  | NS 35   |
| Setpoint  | 10 N  |
| Result of voltage-drop test   | Test passed   |
| Result of temperature-rise test   | Test passed   |
| Requirement temperature-rise test   | Increase in temperature ≤ 45 K                          |
| Short circuit stability result  | Test passed   |
| Conductor cross section short circuit testing   | 35 mm <sup>2</sup>                                      |
| Short-time current  | 4.2 kA  |
| Result of thermal test  | Test passed   |
| Proof of thermal characteristics (needle flame) effective duration                        | 30 s  |
| Result of aging test  | Test passed   |
| Ageing test for screwless modular terminal block temperature cycles                       | 192   |
| Oscillation, broadband noise test result  | Test passed   |
| Test specification, oscillation, broadband noise  | DIN EN 50155 (VDE 0115-200):2008-03                     |
| Test spectrum   | Service life test category 2, bogie-mounted             |
| Test frequency  | f <sub>1</sub> = 5 Hz to f <sub>2</sub> = 250 Hz        |
| ASD level   | 6.12 (m/s <sup>2</sup> ) <sup>2</sup> /Hz               |
| Acceleration  | 3.12g   |
| Test duration per axis  | 5 h   |

# Feed-through terminal block - ST 35 - 3036178

## Technical data

### General

|   |                                     |
|---|-------------------------------------|
| Test directions   | X-, Y- and Z-axis                   |
| Shock test result   | Test passed                         |
| Test specification, shock test  | DIN EN 50155 (VDE 0115-200):2008-03 |
| Shock form  | Half-sine                           |
| Acceleration  | 30g                                 |
| Shock duration  | 18 ms                               |
| Number of shocks per direction  | 3                                   |
| Test directions   | X-, Y- and Z-axis (pos. and neg.)   |
| 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            | 16 mm   |
| Length           | 100 mm  |
| Height NS 35/7,5 | 59 mm   |
| Height NS 35/15  | 66.5 mm |

### Connection data

|  |  |
|--|--|
| Connection                                 | 1 level  |
| Connection method                          | Spring-cage connection   |
| Stripping length                           | 25 mm  |
| Connection in acc. with standard           | IEC 60947-7-1  |
| Note                                       | The supply from the ST 35 terminal block to the ST 16 TWIN terminal block with the RB-ST 35 reducing bridge is single-sided only. In the case of a central supply, the D-ST 16-TWIN cover cannot be bridged via the reducing bridge. |
| Conductor cross section solid min.         | 2.5 mm <sup>2</sup>  |
| Conductor cross section solid max.         | 35 mm <sup>2</sup>   |
| Conductor cross section AWG min.           | 14   |
| Conductor cross section AWG max.           | 2  |
| Conductor cross section flexible min.      | 2.5 mm <sup>2</sup>  |
| Conductor cross section flexible max.      | 35 mm <sup>2</sup>   |
| Min. AWG conductor cross section, flexible | 14   |

# Feed-through terminal block - ST 35 - 3036178

## Technical data

### Connection data

|  |                     |
|--|---------------------|
| Max. AWG conductor cross section, flexible   | 2                   |
| Conductor cross section flexible, with ferrule without plastic sleeve min.                             | 2.5 mm <sup>2</sup> |
| Conductor cross section flexible, with ferrule without plastic sleeve max.                             | 35 mm <sup>2</sup>  |
| Conductor cross section flexible, with ferrule with plastic sleeve min.                                | 2.5 mm <sup>2</sup> |
| Conductor cross section flexible, with ferrule with plastic sleeve max.                                | 35 mm <sup>2</sup>  |
| Two conductors with the same cross section, flexible, with TWIN ferrules, with plastic sleeve, minimum | 2.5 mm <sup>2</sup> |
| Two conductors with the same cross section, flexible, with TWIN ferrules, with plastic sleeve, maximum | 10 mm <sup>2</sup>  |
| Internal cylindrical gage  | A8                  |

### Ambient conditions

|  |   |
|--|---|
| Operating temperature                    | -60 °C ... 105 °C (max. short-term operating temperature 130°C)           |
| Ambient temperature (storage/transport)  | -25 °C ... 60 °C (for a short time, not exceeding 24 h, -60 °C to +70 °C) |
| Permissible humidity (storage/transport) | 30 % ... 70 %   |
| Ambient temperature (assembly)           | -5 °C ... 70 °C   |
| Ambient temperature (actuation)          | -5 °C ... 70 °C   |

### Standards and Regulations

|                                  |               |
|----------------------------------|---------------|
| Connection in acc. with standard | CSA           |
|                                  | IEC 60947-7-1 |

### 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 | 27141120 |
| eCl@ss 11.0   | 27141120 |
| eCl@ss 4.0    | 27141100 |
| eCl@ss 4.1    | 27141100 |
| eCl@ss 5.0    | 27141100 |
| eCl@ss 5.1    | 27141100 |
| eCl@ss 6.0    | 27141100 |
| eCl@ss 7.0    | 27141120 |
| eCl@ss 9.0    | 27141120 |

# Feed-through terminal block - ST 35 - 3036178

## Classifications

### ETIM

|          |          |
|----------|----------|
| ETIM 2.0 | EC000897 |
| ETIM 3.0 | EC000897 |
| ETIM 4.0 | EC000897 |
| ETIM 6.0 | EC000897 |
| ETIM 7.0 | EC000897 |

### 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

#### Approvals

DNV GL / CSA / BV / LR / KR / NK / UL Recognized / cUL Recognized / IECEx CB Scheme / RS / VDE Gutachten mit Fertigungsüberwachung / cULus Recognized

#### Ex Approvals

IECEx / EAC Ex / NEPSI / ATEX / CCC

### Approval details

|        |  |   |            |
|--------|--|---|------------|
| DNV GL |  | <a href="https://approvalfinder.dnvgl.com/">https://approvalfinder.dnvgl.com/</a> | TAE00001CS |
|--------|--|---|------------|

|                    |       |   |       |
|--------------------|-------|---|-------|
| CSA                |       | <a href="http://www.csagroup.org/services-industries/product-listing/">http://www.csagroup.org/services-industries/product-listing/</a> | 13631 |
|                    | B     | C   |       |
| Nominal voltage UN | 600 V | 600 V   |       |
| Nominal current IN | 115 A | 115 A   |       |

## Feed-through terminal block - ST 35 - 3036178

### Approvals

|                            | B    | C    |
|----------------------------|------|------|
| mm <sup>2</sup> /AWG/kcmil | 14-2 | 14-2 |

|    |  |   |             |
|----|--|---|-------------|
| BV |  | <a href="http://www.veristar.com/portal/veristarinfo/generalinfo/approved/approvedProducts/equipmentAndMaterials">http://www.veristar.com/portal/veristarinfo/generalinfo/approved/approvedProducts/equipmentAndMaterials</a> | 13403/D0 BV |
|----|--|---|-------------|

|    |  |   |             |
|----|--|---|-------------|
| LR |  | <a href="http://www.lr.org/en">http://www.lr.org/en</a> | LR2014888TA |
|----|--|---|-------------|

|    |  |   |                |
|----|--|---|----------------|
| KR |  | <a href="http://www.krs.co.kr/eng/main/main.aspx">http://www.krs.co.kr/eng/main/main.aspx</a> | HMB17372-EL002 |
|----|--|---|----------------|

|    |  |   |           |
|----|--|---|-----------|
| NK |  | <a href="http://www.classnk.or.jp/hp/en/">http://www.classnk.or.jp/hp/en/</a> | 09 ME 140 |
|----|--|---|-----------|

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

|                            | B     | C     |
|----------------------------|-------|-------|
| Nominal voltage UN         | 600 V | 600 V |
| Nominal current IN         | 115 A | 115 A |
| mm <sup>2</sup> /AWG/kcmil | 14-2  | 14-2  |

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

|                            | B     | C     |
|----------------------------|-------|-------|
| Nominal voltage UN         | 600 V | 600 V |
| Nominal current IN         | 115 A | 115 A |
| mm <sup>2</sup> /AWG/kcmil | 14-2  | 14-2  |

|                 |  |   |           |
|-----------------|--|---|-----------|
| IECEE CB Scheme |  | <a href="http://www.iecee.org/">http://www.iecee.org/</a> | DE1-62909 |
|-----------------|--|---|-----------|

|    |  |   |              |
|----|--|---|--------------|
| RS |  | <a href="http://www.rs-head.spb.ru/en/index.php">http://www.rs-head.spb.ru/en/index.php</a> | 17.00013.272 |
|----|--|---|--------------|

# Feed-through terminal block - ST 35 - 3036178

## Approvals

|   |  |   |          |
|---|--|---|----------|
| VDE Gutachten mit Fertigungsüberwachung |  | <a href="http://www2.vde.com/de/Institut/Online-Service/VDE-gepruefteProdukte/Seiten/Online-Suche.aspx">http://www2.vde.com/de/Institut/Online-Service/VDE-gepruefteProdukte/Seiten/Online-Suche.aspx</a> | 40009041 |
| Nominal voltage UN                      |  | 1000 V  |          |
| Nominal current IN                      |  | 125 A   |          |
| mm <sup>2</sup> /AWG/kcmil              |  | 2.5-35  |          |

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

## Accessories

### Accessories

#### DIN rail

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



DIN rail perforated, acc. to EN 60715, material: Steel, galvanized, passivated with a thick layer, Standard profile, color: silver

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



DIN rail, unperforated, acc. to EN 60715, material: Steel, galvanized, passivated with a thick layer, Standard profile, color: silver

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



DIN rail perforated, acc. to EN 60715, material: Steel, Galvanized, white passivated, Standard profile, color: silver

## Feed-through terminal block - ST 35 - 3036178

### Accessories

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



DIN rail, unperforated, acc. to EN 60715, material: Steel, Galvanized, white passivated, Standard profile, color: silver

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



DIN rail, unperforated, acc. to EN 60715, material: Aluminum, uncoated, Standard profile, color: silver

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



DIN rail perforated, acc. to EN 60715, material: Steel, galvanized, Standard profile, color: silver

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



DIN rail, unperforated, acc. to EN 60715, material: Steel, galvanized, Standard profile, color: silver

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



DIN rail, unperforated, acc. to EN 60715, material: Copper, uncoated, Standard profile, color: copper-colored

---



# Feed-through terminal block - ST 35 - 3036178

## 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 - ST-IL - 3039900

Operating decal for the ST terminal block



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## End block

End clamp - E/NS 35 N - 0800886



End clamp, width: 9.5 mm, color: gray

End clamp - E/AL-NS 35 - 1201662



End clamp, for end support of UKH 50 to UKH 240, is pushed onto DIN rail NS 35 and fixed with 2 screws, width: 10 mm, color: aluminum

---

## Insulating sleeve

Insulating sleeve - MPS-IH WH - 0201663

Insulating sleeve, color: white



## Feed-through terminal block - ST 35 - 3036178

### 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



## Feed-through terminal block - ST 35 - 3036178

### Accessories

Insulating sleeve - MPS-IH BK - 0201731

Insulating sleeve, color: black



### Jumper

Plug-in bridge - FBS 2-16 - 3005963



Plug-in bridge, pitch: 16 mm, color: red

---

### Labeled terminal marker

Zack marker strip - ZB 16 CUS - 0827463



Zack marker strip, can be ordered: Strip, white, labeled according to customer specifications, mounting type: snap into tall marker groove, for terminal block width: 16 mm, lettering field size: 10.5 x 16 mm, Number of individual labels: 5

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Zack marker strip - ZB 16,LGS:L1-N,PE - 0827462



Zack marker strip, Strip, white, labeled, printed horizontally: L1, L2, L3, N, PE, mounting type: snap into tall marker groove, for terminal block width: 16.3 mm, lettering field size: 10.5 x 16.25 mm, Number of individual labels: 5

---

Marker for terminal blocks - UC-TM 16 CUS - 0824621



Marker for terminal blocks, can be ordered: by sheet, white, labeled according to customer specifications, mounting type: snap into tall marker groove, for terminal block width: 16 mm, lettering field size: 15.45 x 10.5 mm, Number of individual labels: 32

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## Feed-through terminal block - ST 35 - 3036178

### Accessories

#### Marker for terminal blocks - UCT-TM 16 CUS - 0829637



Marker for terminal blocks, can be ordered: by sheet, white, labeled according to customer specifications, mounting type: snap into tall marker groove, for terminal block width: 16 mm, lettering field size: 14.8 x 9.6 mm, Number of individual labels: 18

#### Zack Marker strip, flat - ZBF 16 CUS - 0827465



Zack Marker strip, flat, can be ordered: Strip, white, labeled according to customer specifications, mounting type: snap into flat marker groove, for terminal block width: 16 mm, lettering field size: 5.15 x 16 mm, Number of individual labels: 5

#### Marker for terminal blocks - UC-TMF 16 CUS - 0824678



Marker for terminal blocks, can be ordered: by sheet, white, labeled according to customer specifications, mounting type: snap into flat marker groove, for terminal block width: 16 mm, lettering field size: 15.45 x 5.1 mm, Number of individual labels: 32

#### Marker for terminal blocks - UCT-TMF 16 CUS - 0829693



Marker for terminal blocks, can be ordered: by sheet, white, labeled according to customer specifications, mounting type: snap into flat marker groove, for terminal block width: 16 mm, lettering field size: 15.2 x 4.7 mm, Number of individual labels: 24

### Planning and marking software

#### Software - PROJECT COMPLETE - 1050453



Intuitive planning and marking software for configuring terminal strips and for professional marking of marking materials for terminal blocks, conductors, cables, devices, and systems. The software is available for download

### Reducing bridge

## Feed-through terminal block - ST 35 - 3036178

### Accessories

Reducing bridge - RB ST 35-(2,5/4) - 3030899



Reducing bridge, pitch: 11 mm, color: red

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Reducing bridge - RB 35-16 - 3032169



Reducing bridge, pitch: 14 mm, color: red

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### Screwdriver tools

Screwdriver - SZF 3-1,0X5,5 - 1206612



Actuation tool, for ST terminal blocks, also suitable for use as a bladed screwdriver, size: 1.0 x 5.5 x 150 mm, 2-component grip, with non-slip grip

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### Terminal marking

Zack marker strip - ZB 16:UNPRINTED - 0827461



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: 16 mm, lettering field size: 16 x 10.5 mm, Number of individual labels: 50

---

Marker for terminal blocks - UC-TM 16 - 0819217



Marker for terminal blocks, Sheet, white, unlabeled, can be labeled with: BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, PLOTMARK, CMS-P1-PLOTTER, mounting type: snap into tall marker groove, for terminal block width: 16 mm, lettering field size: 15.45 x 10.5 mm, Number of individual labels: 32

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## Feed-through terminal block - ST 35 - 3036178

### Accessories

#### Marker for terminal blocks - UCT-TM 16 - 0829146



Marker for terminal blocks, Sheet, white, unlabeled, can be labeled with: TOPMARK NEO, TOPMARK LASER, BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, THERMOMARK PRIME, THERMOMARK CARD 2.0, THERMOMARK CARD, mounting type: snap into tall marker groove, for terminal block width: 16 mm, lettering field size: 14.8 x 9.6 mm, Number of individual labels: 18

#### Zack Marker strip, flat - ZBF 16:UNPRINTED - 0827464



Zack Marker strip, flat, Strip, white, unlabeled, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, mounting type: snap into flat marker groove, for terminal block width: 16 mm, lettering field size: 16.25 x 10.5 mm, Number of individual labels: 50

#### Marker for terminal blocks - UC-TMF 16 - 0819262



Marker for terminal blocks, Sheet, white, unlabeled, can be labeled with: BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, PLOTMARK, CMS-P1-PLOTTER, mounting type: snap into flat marker groove, for terminal block width: 16 mm, lettering field size: 15.45 x 5.1 mm, Number of individual labels: 32

#### Marker for terminal blocks - UCT-TMF 16 - 0829218



Marker for terminal blocks, Sheet, white, unlabeled, can be labeled with: TOPMARK NEO, TOPMARK LASER, BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, THERMOMARK PRIME, THERMOMARK CARD 2.0, THERMOMARK CARD, mounting type: snap into flat marker groove, for terminal block width: 16 mm, lettering field size: 15.2 x 4.7 mm, Number of individual labels: 24

### Test plug terminal block

#### Test plugs - MPS-MT - 0201744



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

### Test socket

## Feed-through terminal block - ST 35 - 3036178

### Accessories

Test adapter - PAI-ST 35/1000MM - 3029994



Test adapter, color: red