

## Distribution block - PTFIX 6/12X2,5-FE-G - 3273502

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Distribution block, Basic terminal block with supply, The blocks can be bridged with one another via the conductor shaft. For corresponding plug-in bridges, see accessories, nom. voltage: 450 V, nominal current: 24 A, connection method: Push-in connection, Push-in connection, number of connections: 13, cross section: 0.14 mm<sup>2</sup> - 4 mm<sup>2</sup>, AWG: 26 - 12, width: 41 mm, height: 22.7 mm, color: black/yellow, mounting type: adhesive

### Your advantages

- ✓ Space savings of up to 50% on the DIN rail, thanks to transverse mounting
- ✓ Clear wiring, thanks to eleven different color variants
- ✓ Time savings of up to 80%, thanks to ready-to-mount blocks without manual bridging
- ✓ Time-saving conductor connection, thanks to tool-free Push-in direct connection technology
- ✓ Flexible use, thanks to DIN rail mounting, direct mounting or adhesive mounting



### Key Commercial Data

|                        |   |
|------------------------|---|
| Packing unit           | 8 pc  |
| Minimum order quantity | 8 pc  |
| GTIN                   | <br>4 055626 393285 |
| GTIN                   | 4055626393285   |

### Technical data

#### General

|  |   |
|--|---|
| Note                                   | Notes on operation The blocks can be bridged with one another via the conductor shaft. For corresponding plug-in bridges, see accessories |
| Number of levels                       | 1   |
| Number of connections                  | 13  |
| Potentials                             | 1   |
| Nominal cross section                  | 2.5 mm <sup>2</sup>   |
| Nominal cross section feed-in          | 6 mm <sup>2</sup>   |
| Color                                  | black/yellow  |
| Insulating material                    | PA  |
| Flammability rating according to UL 94 | V0  |
| Rated surge voltage                    | 6 kV  |

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## Technical data

### General

|   |   |
|---|---|
| Degree of pollution   | 3   |
| Overvoltage category  | III   |
| Insulating material group   | I   |
| Maximum power dissipation for nominal condition                         | 1.31 W (the value is based on one connection block and is multiplied according to the pin assignment) |
| Maximum load current  | 32 A (with 4 mm <sup>2</sup> conductor cross section)   |
| Maximum total current   | 57 A (with 10 mm <sup>2</sup> conductor cross section)  |
| Nominal current I <sub>N</sub>  | 24 A  |
| Nominal voltage U <sub>N</sub>  | 450 V   |
| Maximum load current  | 57 A (with 10 mm <sup>2</sup> conductor cross section)  |
| Nominal current I <sub>N</sub>  | 41 A (with 6 mm <sup>2</sup> conductor cross section)   |
| Open side panel   | No  |
| Ambient temperature (operation)   | -35 °C ... 85 °C  |
| Ambient temperature (storage/transport)                                 | 4 °C ... 38 °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   |
| Shock protection test specification                                     | DIN EN 50274 (VDE 0660-514):2002-11   |
| Back of the hand protection   | guaranteed  |
| Finger protection   | guaranteed  |
| Result of thermal test  | Test passed   |
| Proof of thermal characteristics (needle flame) effective duration      | 30 s  |
| 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  | 3.12 g  |
| Test duration per axis  | 5 h   |
| 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)) | 130 °C  |
| Static insulating material application in cold                          | -60 °C  |

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### Technical data

#### General

|   |             |
|---|-------------|
| 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)        | 28 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  | 41 mm   |
| Length | 28.6 mm |
| Height | 22.7 mm |

#### Connection data

|  |  |
|--|--|
| Connection method  | Push-in connection                           |
| Stripping length   | 8 mm ... 10 mm                               |
| Connection in acc. with standard   | IEC 60998-2-2                                |
| Conductor cross section solid min.   | 0.14 mm <sup>2</sup>                         |
| Conductor cross section solid max.   | 4 mm <sup>2</sup>                            |
| Conductor cross section AWG min.   | 26   |
| Conductor cross section AWG max.   | 12   |
| Conductor cross section flexible min.                                      | 0.14 mm <sup>2</sup>                         |
| Conductor cross section flexible max.                                      | 2.5 mm <sup>2</sup>                          |
| Min. AWG conductor cross section, flexible                                 | 26   |
| 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. | 2.5 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.    | 2.5 mm <sup>2</sup>                          |
| Connection cross sections directly pluggable                               | 0.34 mm <sup>2</sup> 4 mm <sup>2</sup> 24 12 |
| Conductor cross section solid min.   | 0.34 mm <sup>2</sup>                         |
| Conductor cross section solid max.   | 4 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. | 2.5 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.    | 2.5 mm <sup>2</sup>                          |
| Internal cylindrical gage  | A3   |
| Connection   | Feed-in stage                                |
| Connection method  | Push-in connection                           |
| Stripping length   | 10 mm ... 12 mm                              |
| Connection in acc. with standard   | IEC 60998-2-2                                |

## Distribution block - PTFIX 6/12X2,5-FE-G - 3273502

### Technical data

#### Connection data

|  |                     |
|--|---------------------|
| Conductor cross section solid min.   | 0.5 mm <sup>2</sup> |
| Conductor cross section solid max.   | 10 mm <sup>2</sup>  |
| Conductor cross section AWG min.   | 20                  |
| Conductor cross section AWG max.   | 8                   |
| Conductor cross section flexible min.  | 0.5 mm <sup>2</sup> |
| Conductor cross section flexible max.  | 10 mm <sup>2</sup>  |
| Min. AWG conductor cross section, flexible   | 20                  |
| Max. AWG conductor cross section, flexible   | 10                  |
| Conductor cross section flexible, with ferrule without plastic sleeve min.                             | 0.5 mm <sup>2</sup> |
| Conductor cross section flexible, with ferrule without plastic sleeve max.                             | 6 mm <sup>2</sup>   |
| Conductor cross section flexible, with ferrule with plastic sleeve min.                                | 0.5 mm <sup>2</sup> |
| Conductor cross section flexible, with ferrule with plastic sleeve max.                                | 6 mm <sup>2</sup>   |
| Two conductors with the same cross section, flexible, with TWIN ferrules, with plastic sleeve, minimum | 0.5 mm <sup>2</sup> |
| Two conductors with the same cross section, flexible, with TWIN ferrules, with plastic sleeve, maximum | 1.5 mm <sup>2</sup> |

#### Standards and Regulations

|  |               |
|--|---------------|
| Connection in acc. with standard       | IEC 60998-2-2 |
|  | IEC 60998-2-2 |
| Flammability rating according to UL 94 | V0            |

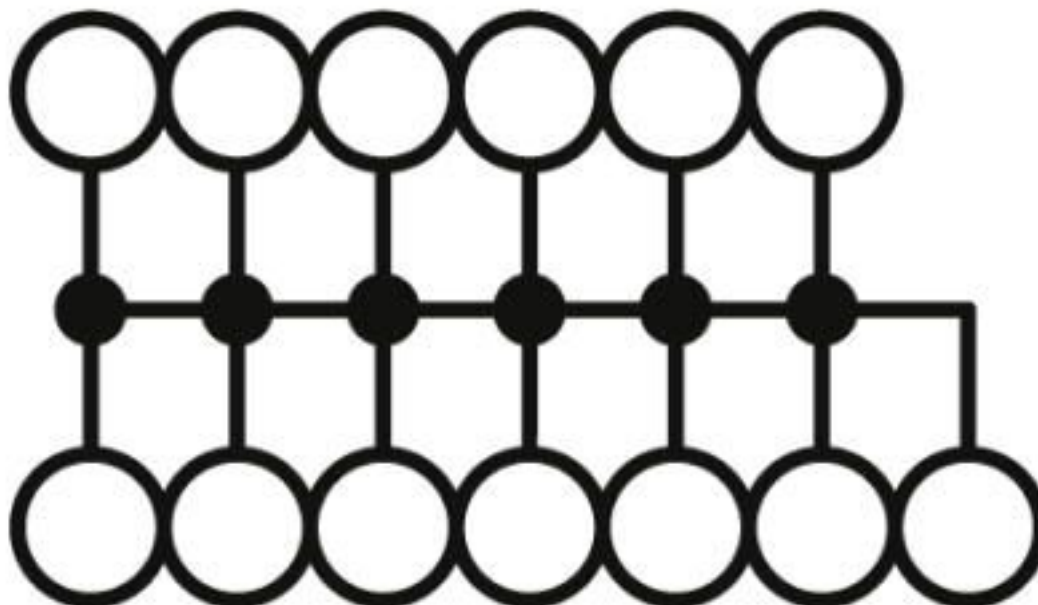
#### Environmental Product Compliance

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

### Drawings

# Distribution block - PTFIX 6/12X2,5-FE-G - 3273502

Circuit diagram



## Classifications

### eCl@ss

|               |          |
|---------------|----------|
| eCl@ss 10.0.1 | 27141120 |
| eCl@ss 4.0    | 27141121 |
| eCl@ss 4.1    | 27141121 |
| eCl@ss 5.0    | 27141120 |
| eCl@ss 5.1    | 27141120 |
| eCl@ss 6.0    | 27141100 |
| eCl@ss 7.0    | 27141120 |
| eCl@ss 8.0    | 27141120 |
| eCl@ss 9.0    | 27141120 |

### ETIM

|          |          |
|----------|----------|
| ETIM 3.0 | EC000897 |
| ETIM 4.0 | EC000897 |
| ETIM 5.0 | 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 |

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## Classifications

### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 13.2 | 39121410 |
| UNSPSC 18.0 | 39121410 |
| UNSPSC 19.0 | 39121410 |
| UNSPSC 20.0 | 39121410 |
| UNSPSC 21.0 | 39121410 |

## Approvals

### Approvals

#### Approvals

CSA / UL Recognized / cUL Recognized / IECCEB Scheme / VDE Zeichengenehmigung / EAC / EAC / LR / cULus Recognized

#### Ex Approvals

### Approval details

|                            |       |   |       |
|----------------------------|-------|---|-------|
| CSA                        |       | <a href="http://www.csagroup.org/services-industries/product-listing/">http://www.csagroup.org/services-industries/product-listing/</a> | 13631 |
|                            | B     | C   | D     |
| Nominal voltage UN         | 300 V | 300 V   | 600 V |
| Nominal current IN         | 50 A  | 50 A  | 5 A   |
| mm <sup>2</sup> /AWG/kcmil | 20-8  | 20-8  | 20-8  |

|                            |       |   |              |
|----------------------------|-------|---|--------------|
| 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   | D            |
| Nominal voltage UN         | 300 V | 300 V   | 600 V        |
| Nominal current IN         | 50 A  | 50 A  | 5 A          |
| mm <sup>2</sup> /AWG/kcmil | 20-8  | 20-8  | 20-8         |

|                            |       |   |              |
|----------------------------|-------|---|--------------|
| 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   | D            |
| Nominal voltage UN         | 300 V | 300 V   | 600 V        |
| Nominal current IN         | 50 A  | 50 A  | 5 A          |
| mm <sup>2</sup> /AWG/kcmil | 20-8  | 20-8  | 20-8         |

# Distribution block - PTFIX 6/12X2,5-FE-G - 3273502

## Approvals

|                    |                     |   |           |
|--------------------|---------------------|---|-----------|
| IECEE CB Scheme    | <b>CB</b><br>scheme | <a href="http://www.iecee.org/">http://www.iecee.org/</a> | DE1-60115 |
| Nominal voltage UN |                     | 450 V   |           |
| Nominal current IN |                     | 41 A  |           |

|                        |  |   |          |
|------------------------|--|---|----------|
| VDE Zeichengenehmigung |  | <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> | 40047798 |
| Nominal voltage UN     |  | 450 V   |          |
| Nominal current IN     |  | 41 A  |          |

|     |            |  |                          |
|-----|------------|--|--------------------------|
| EAC | <b>EAC</b> |  | RU C-<br>DE.AI30.B.01102 |
|-----|------------|--|--------------------------|

|     |            |  |                          |
|-----|------------|--|--------------------------|
| EAC | <b>EAC</b> |  | RU C-<br>DE.BL08.B.00644 |
|-----|------------|--|--------------------------|

|    |  |   |             |
|----|--|---|-------------|
| LR |  | <a href="http://www.lr.org/en">http://www.lr.org/en</a> | LR2002627TA |
|----|--|---|-------------|

|                  |              |  |  |
|------------------|--------------|--|--|
| cULus Recognized | <b>cULus</b> |  |  |
|------------------|--------------|--|--|

## Accessories

### Accessories

#### Bridge

Wire bridge - FBSW 2-5/250MM - 3030172

Wire bridge, length: 250 mm, width: 5.1 mm, number of positions: 1, color: red/black



## Distribution block - PTFIX 6/12X2,5-FE-G - 3273502

### Accessories

Wire bridge - FBSW 2-5/60MM - 3030170



Wire bridge, length: 60 mm, width: 5.1 mm, number of positions: 1, color: red/black

---

Wire bridge - FBSW 2-5/110MM - 3030171



Wire bridge, length: 110 mm, width: 5.1 mm, number of positions: 1, color: red/black

---

### Insulating sleeve

Insulating sleeve - MPS-IH WH - 0201663



Insulating sleeve, color: white

---

Insulating sleeve - MPS-IH RD - 0201676



Insulating sleeve, color: red

---

Insulating sleeve - MPS-IH BU - 0201689



Insulating sleeve, color: blue

---



## Distribution block - PTFIX 6/12X2,5-FE-G - 3273502

### Accessories

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



Insulating sleeve - MPS-IH BK - 0201731

Insulating sleeve, color: black



Insulating sleeve - ISH 2,5/0,2 - 3002843

Insulating sleeve, color: white



## Distribution block - PTFIX 6/12X2,5-FE-G - 3273502

### Accessories

Insulating sleeve - ISH 2,5/0,5 - 3002856



Insulating sleeve, color: gray

---

Insulating sleeve - ISH 2,5/1,0 - 3002869



Insulating sleeve, color: black

---

### Jumper

Plug-in bridge - FBS 2-5 - 3030161



Plug-in bridge, pitch: 5.2 mm, length: 22.7 mm, width: 9 mm, number of positions: 2, color: red

---

Plug-in bridge - FBS 2-5 GN - 3032143



Plug-in bridge, pitch: 5.2 mm, number of positions: 2, color: green

---

Plug-in bridge - FBS 2-5 BU - 3036877



Plug-in bridge, pitch: 5.2 mm, number of positions: 2, color: blue

---

## Distribution block - PTFIX 6/12X2,5-FE-G - 3273502

### Accessories

Plug-in bridge - FBS 2-5 GY - 3038969



Plug-in bridge, pitch: 5.2 mm, number of positions: 2, color: gray

---

### Labeled terminal marker

Marker card - SK 3,8 REEL P5,2 WH CUS - 8199989



Marker card, Card, can be ordered: by card, white, labeled according to customer specifications, mounting type: adhesive, for terminal block width: 5.2 mm, lettering field size: continuous x 3.8#mm

---

Marker card - SK 2,8 REEL P5,2 WH CUS - 8199986



Marker card, Card, can be ordered: by card, white, labeled according to customer specifications, mounting type: adhesive, for terminal block width: 5.2 mm, lettering field size: continuous x 2.8#mm

---

Marker card - SK 3,8 REEL P5,2 WH CUS - 8199989



Marker card, Card, can be ordered: by card, white, labeled according to customer specifications, mounting type: adhesive, for terminal block width: 5.2 mm, lettering field size: continuous x 3.8#mm

---

### Marker carriers

Terminal strip marker carrier - KLM 2 - 0807575



Terminal strip marker carrier, gray, unlabeled, mounting type: plug in, lettering field size: 20 mm x 8 mm

---

## Distribution block - PTFIX 6/12X2,5-FE-G - 3273502

### Accessories

Terminal strip marker carrier - KLM 3-L - 0814788



Terminal strip marker carrier, height-adjustable, for end brackets CLIPFIX 15, CLIPFIX 35 and CLIPFIX 35-5, can be labeled with BMK...20 x 8 labels, or directly with the M-PEN or X-PEN

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### Screwdriver tools

Screwdriver - SZF 1-0,6X3,5 - 1204517



Actuation tool, for ST terminal blocks, also suitable for use as a bladed screwdriver, size: 0.6 x 3.5 x 100 mm, 2-component grip, with non-slip grip

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### Terminal marking

Marking foil for zack marker strip - TML (EX3,8)R - 0801837



Marking foil for zack marker strip, Roll, white, unlabeled, can be labeled with: THERMOMARK ROLL 2.0, THERMOMARK ROLL, THERMOMARK ROLL X1, THERMOMARK ROLLMASTER 300/600, THERMOMARK X1.2, mounting type: adhesive, for terminal block width: 30000 mm, lettering field size: 30000 x 3.8 mm, Number of individual labels: 1

---

Marking foil for zack marker strip - TML (104X3,8)R - 0801833



Marking foil for zack marker strip, Roll, white, unlabeled, can be labeled with: THERMOMARK ROLL 2.0, THERMOMARK ROLL, THERMOMARK ROLL X1, THERMOMARK ROLLMASTER 300/600, THERMOMARK X1.2, mounting type: adhesive, for terminal block width: 104 mm, lettering field size: 104 x 3.8 mm, Number of individual labels: 2500

---

Marking foil for zack marker strip - TML (104X2,8)R - 0801832



Marking foil for zack marker strip, Roll, white, unlabeled, can be labeled with: THERMOMARK ROLL 2.0, THERMOMARK ROLL, THERMOMARK ROLL X1, THERMOMARK ROLLMASTER 300/600, THERMOMARK X1.2, mounting type: adhesive, for terminal block width: 104 mm, lettering field size: 104 x 2.8 mm, Number of individual labels: 2500

## Distribution block - PTFIX 6/12X2,5-FE-G - 3273502

### Accessories

#### Marking foil for zack marker strip - TML (EX2,8)R - 0801836



Marking foil for zack marker strip, Roll, white, unlabeled, can be labeled with: THERMOMARK ROLL 2.0, THERMOMARK ROLL, THERMOMARK ROLL X1, THERMOMARK ROLLMASTER 300/600, THERMOMARK X1.2, mounting type: adhesive, for terminal block width: 30000 mm, lettering field size: 30000 x 2.8 mm, Number of individual labels: 1

---

#### Marker for terminal blocks - US-TML (104X3,8) - 0830768



Marker for terminal blocks, Card, white, unlabeled, can be labeled with: BLUEMARK ID COLOR, BLUEMARK ID, THERMOMARK PRIME, THERMOMARK CARD 2.0, THERMOMARK CARD, mounting type: adhesive, lettering field size: 104 x 3.8 mm, Number of individual labels: 22

---

#### Marker for terminal blocks - US-TML (104X2,8) - 0830767



Marker for terminal blocks, Card, white, unlabeled, can be labeled with: BLUEMARK ID COLOR, BLUEMARK ID, THERMOMARK PRIME, THERMOMARK CARD 2.0, THERMOMARK CARD, mounting type: adhesive, lettering field size: 104 x 2.8 mm, Number of individual labels: 26

---

#### Marker card - SK U/3,8 WH:UNBEDRUCKT - 0803906



Marker card, Sheet, white, unlabeled, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, Office printing systems, mounting type: adhesive, for terminal block width: 210 mm, lettering field size: 186 x 3.8 mm, Number of individual labels: 1440

---

#### Marker card - SK U/2,8 WH:UNBEDRUCKT - 0803883



Marker card, Sheet, white, unlabeled, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, Office printing systems, mounting type: adhesive, for terminal block width: 210 mm, lettering field size: 186 x 2.8 mm, Number of individual labels: 3600

## Distribution block - PTFIX 6/12X2,5-FE-G - 3273502

### Accessories

Label - MM-TML (EX3,8)R C1 WH/BK - 1092026



Label, Roll, white, unlabeled, can be labeled with: THERMOFOX, THERMOMARK GO, THERMOMARK GO.K, mounting type: adhesive, for terminal block width: 8000 mm, lettering field size: continuous x 3.8#mm

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### Test plug terminal block

Test plugs - MPS-MT SN - 3212251



Test plugs, with solder connection up to 1 mm<sup>2</sup> conductor cross section, tin-plated surface, color: silver

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Test plugs - MPS-MT 1-S - 1944372



Test plug, consisting of 1.0 mm Ø test pin and 2.0 mm Ø socket

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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

---

### Test socket

Test adapter - PAI-4-N GY - 3032871



4 mm test adapter, for terminal blocks with 5.2 mm, 6.2 mm and 8.2 mm pitch

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