

## Plug - PP-H 4/15 - 3212100

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Plug, nom. voltage: 800 V, nominal current: 32 A, connection method: Push-in / plug connection, number of connections: 15, number of positions: 15, cross section: 0.2 mm<sup>2</sup> - 6 mm<sup>2</sup>, AWG: 24 - 10, width: 93 mm, height: 42.3 mm, color: gray

### Your advantages

- ✓ Large-surface labeling option
- ✓ The Push-in technology COMBI plugs for self-assembly provide solutions that users can implement themselves
- ✓ Tested for railway applications

**RoHS**

COMPLETE RoHS

### Key Commercial Data

|              |                                                                                      |
|--------------|--------------------------------------------------------------------------------------|
| Packing unit | 10 pc                                                                                |
| GTIN         |  |
| GTIN         | 4046356483193                                                                        |

### Technical data

#### General

|                                        |                   |
|----------------------------------------|-------------------|
| Number of positions                    | 15                |
| Number of levels                       | 1                 |
| Number of connections                  | 15                |
| Potentials                             | 15                |
| Nominal cross section                  | 4 mm <sup>2</sup> |
| Color                                  | gray              |
| Insulating material                    | PA                |
| Flammability rating according to UL 94 | V0                |
| Area of application                    | Railway industry  |
|                                        | Machine building  |
|                                        | Plant engineering |
| Rated surge voltage                    | 8 kV              |
| Degree of pollution                    | 3                 |

# Plug - PP-H 4/15 - 3212100

## Technical data

### General

|                                                                         |                                                       |
|-------------------------------------------------------------------------|-------------------------------------------------------|
| Overvoltage category                                                    | III                                                   |
| Insulating material group                                               | I                                                     |
| Maximum power dissipation for nominal condition                         | 1.02 W                                                |
| Maximum load current                                                    | 32 A (with 6 mm <sup>2</sup> conductor cross section) |
| Nominal current I <sub>N</sub>                                          | 32 A                                                  |
| Nominal voltage U <sub>N</sub>                                          | 800 V                                                 |
| Open side panel                                                         | No                                                    |
| 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                                                |
| 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  | 93 mm   |
| Length | 21 mm   |
| Height | 42.3 mm |
|        | 24 mm   |
| Pitch  | 6.2 mm  |

### Connection data

|                                                                            |                           |
|----------------------------------------------------------------------------|---------------------------|
| Connection                                                                 | 1st level connection left |
| Connection method                                                          | Push-in / plug connection |
| Stripping length                                                           | 10 mm ... 12 mm           |
| Connection in acc. with standard                                           | IEC 61984                 |
| Conductor cross section solid min.                                         | 0.2 mm <sup>2</sup>       |
| Conductor cross section solid max.                                         | 6 mm <sup>2</sup>         |
| Conductor cross section AWG min.                                           | 24                        |
| Conductor cross section AWG max.                                           | 10                        |
| Conductor cross section flexible min.                                      | 0.2 mm <sup>2</sup>       |
| Conductor cross section flexible max.                                      | 4 mm <sup>2</sup>         |
| Min. AWG conductor cross section, flexible                                 | 24                        |
| Max. AWG conductor cross section, flexible                                 | 12                        |
| Conductor cross section flexible, with ferrule without plastic sleeve min. | 0.25 mm <sup>2</sup>      |
| Conductor cross section flexible, with ferrule without plastic sleeve max. | 4 mm <sup>2</sup>         |

## Plug - PP-H 4/15 - 3212100

### Technical data

#### Connection data

|                                                                                                        |                                       |
|--------------------------------------------------------------------------------------------------------|---------------------------------------|
| Conductor cross section flexible, with ferrule with plastic sleeve min.                                | 0.25 mm <sup>2</sup>                  |
| Conductor cross section flexible, with ferrule with plastic sleeve max.                                | 4 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 mm <sup>2</sup>                     |
| Connection cross sections directly pluggable                                                           | 0.5 mm <sup>2</sup> 6 mm <sup>2</sup> |
| Conductor cross section solid min.                                                                     | 0.5 mm <sup>2</sup>                   |
| Conductor cross section solid max.                                                                     | 6 mm <sup>2</sup>                     |
| 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.                             | 4 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.                                | 4 mm <sup>2</sup>                     |
| Internal cylindrical gage                                                                              | A4                                    |

#### Standards and Regulations

|                                        |           |
|----------------------------------------|-----------|
| Connection in acc. with standard       | CUL       |
|                                        | IEC 61984 |
| Flammability rating according to UL 94 | V0        |

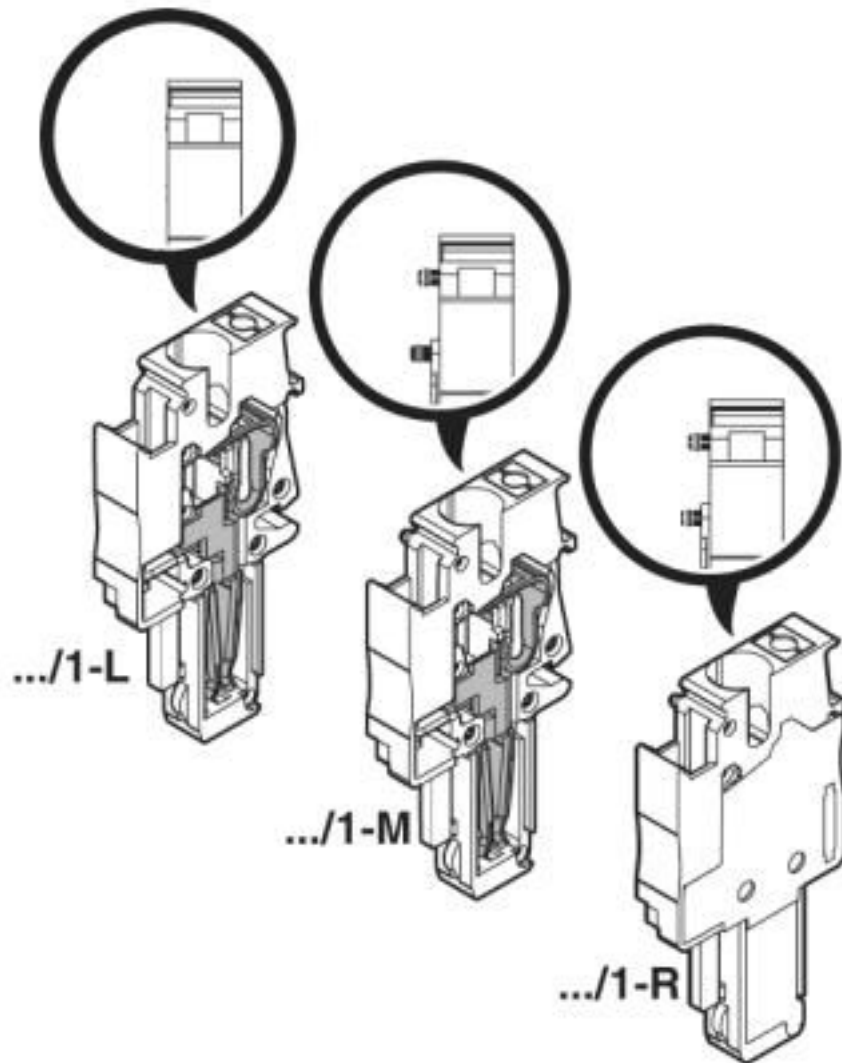
#### Environmental Product Compliance

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

### Drawings

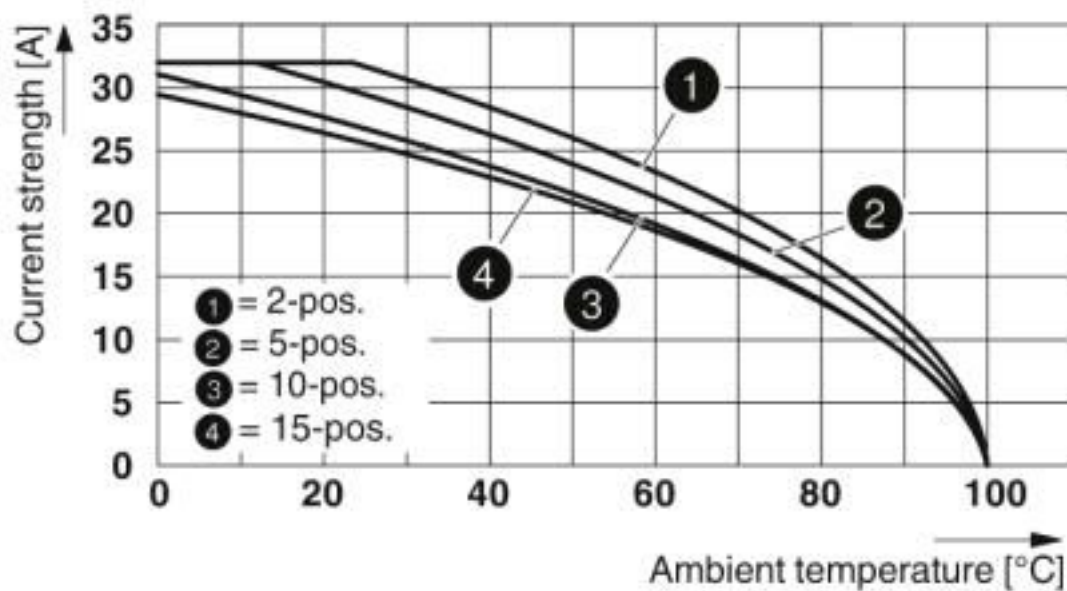
## Plug - PP-H 4/15 - 3212100

Schematic diagram



## Plug - PP-H 4/15 - 3212100

Diagram



Circuit diagram



## Classifications

eCl@ss

|               |          |
|---------------|----------|
| eCl@ss 10.0.1 | 27141151 |
| eCl@ss 4.0    | 27260700 |
| eCl@ss 4.1    | 27260700 |
| eCl@ss 5.0    | 27260700 |
| eCl@ss 5.1    | 27260700 |
| eCl@ss 6.0    | 27141100 |
| eCl@ss 7.0    | 27141151 |
| eCl@ss 8.0    | 27141151 |
| eCl@ss 9.0    | 27141151 |

ETIM

|          |          |
|----------|----------|
| ETIM 4.0 | EC002021 |
| ETIM 5.0 | EC002021 |
| ETIM 6.0 | EC002021 |
| ETIM 7.0 | EC002021 |

## Plug - PP-H 4/15 - 3212100

### Classifications

#### UNSPSC

|               |          |
|---------------|----------|
| UNSPSC 6.01   | 30211802 |
| UNSPSC 7.0901 | 39121402 |
| UNSPSC 11     | 39121402 |
| UNSPSC 12.01  | 39121402 |
| UNSPSC 13.2   | 39121402 |
| UNSPSC 18.0   | 39121402 |
| UNSPSC 19.0   | 39121402 |
| UNSPSC 20.0   | 39121402 |
| UNSPSC 21.0   | 39121402 |

### Approvals

#### Approvals

#### Approvals

DNV GL / BV / LR / UL Recognized / cUL Recognized / EAC / EAC / cULus Recognized

#### Ex Approvals

#### Approval details

|        |                                                                                     |                                                                                   |            |
|--------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------|
| DNV GL |  | <a href="https://approvalfinder.dnvgl.com/">https://approvalfinder.dnvgl.com/</a> | TAE000010T |
|--------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------|

|    |                                                                                     |                                                                                                                                                                                                                               |             |
|----|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| BV |  | <a href="http://www.veristar.com/portal/veristarinfo/generalinfo/approved/approvedProducts/equipmentAndMaterials">http://www.veristar.com/portal/veristarinfo/generalinfo/approved/approvedProducts/equipmentAndMaterials</a> | 39979/B0 BV |
|----|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|

|    |                                                                                     |                                                         |          |
|----|-------------------------------------------------------------------------------------|---------------------------------------------------------|----------|
| LR |  | <a href="http://www.lr.org/en">http://www.lr.org/en</a> | 14/20057 |
|----|-------------------------------------------------------------------------------------|---------------------------------------------------------|----------|

|                            |                                                                                     |                                                                                                                                                       |              |
|----------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| 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         | 28 A                                                                                | 28 A                                                                                                                                                  |              |
| mm <sup>2</sup> /AWG/kcmil | 24-10                                                                               | 24-10                                                                                                                                                 |              |

## Plug - PP-H 4/15 - 3212100

### Approvals

|                    |                                                                                   |                                                                                                                                                       |              |
|--------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| 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 | 28 A                                                                              | 28 A                                                                                                                                                  |              |
| mm²/AWG/kcmil      | 24-10                                                                             | 24-10                                                                                                                                                 |              |

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

|     |                                                                                   |                          |
|-----|-----------------------------------------------------------------------------------|--------------------------|
| EAC |  | RU C-<br>DE.BL08.B.00511 |
|-----|-----------------------------------------------------------------------------------|--------------------------|

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

### Accessories

#### Accessories

#### Cable housing

##### Cable housing - PH 4/2 - 3000734



Cable housing, pitch: 6.2 mm, length: 21 mm, width: 12.4 mm, height: 52.3 mm, number of positions: 2, color: gray

##### Cable housing - PH 4/3 - 3000736



Cable housing, pitch: 6.2 mm, length: 21 mm, width: 18.6 mm, height: 52.3 mm, number of positions: 3, color: gray

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### Accessories

#### Cable housing - PH 4/4 - 3000737



Cable housing, pitch: 6.2 mm, length: 21 mm, width: 24.8 mm, height: 52.3 mm, number of positions: 4, color: gray

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#### Cable housing - PH 4/5 - 3000738



Cable housing, pitch: 6.2 mm, length: 21 mm, width: 31 mm, height: 52.3 mm, number of positions: 5, color: gray

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#### Cable housing - PH 4/6 - 3000739



Cable housing, pitch: 6.2 mm, length: 21 mm, width: 37.2 mm, height: 52.3 mm, number of positions: 6, color: gray

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#### Cable housing - PH 4/7 - 3000740



Cable housing, pitch: 6.2 mm, length: 21 mm, width: 43.4 mm, height: 52.3 mm, number of positions: 7, color: gray

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#### Cable housing - PH 4/8 - 3000741



Cable housing, pitch: 6.2 mm, length: 21 mm, width: 49.6 mm, height: 52.3 mm, number of positions: 8, color: gray

---

## Plug - PP-H 4/15 - 3212100

### Accessories

Cable housing - PH 4/9 - 3000742



Cable housing, pitch: 6.2 mm, length: 21 mm, width: 55.8 mm, height: 52.3 mm, number of positions: 9, color: gray

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Cable housing - PH 4/10 - 3000743



Cable housing, pitch: 6.2 mm, length: 21 mm, width: 62 mm, height: 52.3 mm, number of positions: 10, color: gray

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### Insulating sleeve

Insulating sleeve - MPS-IH WH - 0201663

Insulating sleeve, color: white



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Insulating sleeve - MPS-IH RD - 0201676

Insulating sleeve, color: red



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Insulating sleeve - MPS-IH BU - 0201689

Insulating sleeve, color: blue



## Plug - PP-H 4/15 - 3212100

### Accessories

Insulating sleeve - MPS-IH YE - 0201692

Insulating sleeve, color: yellow



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Insulating sleeve - MPS-IH GN - 0201702

Insulating sleeve, color: green



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Insulating sleeve - MPS-IH GY - 0201728

Insulating sleeve, color: gray



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Insulating sleeve - MPS-IH BK - 0201731

Insulating sleeve, color: black



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Insulating sleeve - ISH 4/0,5 - 3002885



Insulating sleeve, color: gray

## Plug - PP-H 4/15 - 3212100

### Accessories

Insulating sleeve - ISH 4/1,0 - 3002898



Insulating sleeve, color: black

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### Labeled terminal marker

Zack Marker strip, flat - ZBF 6 CUS - 0825027



Zack Marker strip, flat, Strip, can be ordered: Strip, white, labeled according to customer specifications, mounting type: snap into flat marker groove, for terminal block width: 6.2 mm, lettering field size: 5.15 x 6.15 mm, Number of individual labels: 10

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Marker for terminal blocks - UC-TMF 6 CUS - 0824646



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: 6.2 mm, lettering field size: 5.6 x 5.1 mm, Number of individual labels: 80

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Marker for terminal blocks - UCT-TMF 6 CUS - 0829665



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: 6.2 mm, lettering field size: 5.4 x 4.7 mm, Number of individual labels: 60

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Zack Marker strip, flat - ZBF 6,LGS:FORTL.ZAHLEN - 0808749



Zack Marker strip, flat, Strip, white, labeled, printed horizontally: consecutive numbers 1 ... 10, 11 ... 20, etc. up to 91 ... 100, mounting type: snap into flat marker groove, for terminal block width: 6.2 mm, lettering field size: 5.15 x 6.15 mm, Number of individual labels: 10

## Plug - PP-H 4/15 - 3212100

### Accessories

Zack Marker strip, flat - ZBF 6,QR:FORTL.ZAHLEN - 0808765



Zack Marker strip, flat, Strip, white, labeled, Printed vertically: consecutive numbers 1 ... 10, 11 ... 20, etc. up to 91 ... 100, mounting type: snap into flat marker groove, for terminal block width: 6.2 mm, lettering field size: 5.15 x 6.15 mm, Number of individual labels: 10

Zack Marker strip, flat - ZBF 6,LGS:GERADE ZAHLEN - 0810834



Zack Marker strip, flat, Strip, white, labeled, printed horizontally: consecutive numbers 2 ... 20, 22 ... 40, etc. up to 82 ... 100, mounting type: snap into flat marker groove, for terminal block width: 6.2 mm, lettering field size: 5.15 x 6.15 mm, Number of individual labels: 10

Zack Marker strip, flat - ZBF 6,LGS:UNGERADE ZAHLEN - 0810876



Zack Marker strip, flat, Strip, white, labeled, printed horizontally: Odd numbers 1 - 19, 21 - 39, etc. up to 81 - 99, mounting type: snap into flat marker groove, for terminal block width: 6.2 mm, lettering field size: 5.15 x 6.15 mm, Number of individual labels: 10

### Mounting material

Latching - PR/2 - 3040630



Latching, length: 29.8 mm, width: 10 mm, number of positions: 2, color: orange

Latching - PRT/2 - 3040631



Latching, can only be released using a screwdriver, length: 23.2 mm, width: 9 mm, number of positions: 2, color: orange

## Plug - PP-H 4/15 - 3212100

### Accessories

Latching - PRZ - 3040614



Latching, length: 63.6 mm, width: 9.7 mm, number of positions: 2, color: orange

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Latching - PR - 3040559



Latching, length: 29.8 mm, width: 4.4 mm, number of positions: 1, color: orange

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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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Actuation tool - ST-BW - 1207608



Actuation tool, for all 2.5 mm<sup>2</sup> - 4.0 mm<sup>2</sup> spring-cages

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### Shield connection

Shield connection clamp - PSH 3- 6 - 3040591



Shield connection clamp, color: black

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## Plug - PP-H 4/15 - 3212100

### Accessories

Shield connection clamp - PSH 5-10 - 3040601



Shield connection clamp, color: black

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### Terminal marking

Zack Marker strip, flat - ZBF 6:UNBEDRUCKT - 0808710



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: 6.2 mm, lettering field size: 5.15 x 6.15 mm, Number of individual labels: 10

---

Marker for terminal blocks - UC-TMF 6 - 0818140



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: 6.2 mm, lettering field size: 5.6 x 5.1 mm, Number of individual labels: 80

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Marker for terminal blocks - UCT-TMF 6 - 0828746



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: 6.2 mm, lettering field size: 5.4 x 4.7 mm, Number of individual labels: 60

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### 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

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