

## Plug - PP-H 6/ 2 - 3061570

Please be informed that the data shown in this PDF Document is generated from our Online Catalog. Please find the complete data in the user's documentation. Our General Terms of Use for Downloads are valid (<http://phoenixcontact.com/download>)



Plug, nom. voltage: 1000 V, nominal current: 41 A, connection method: Push-in connection, number of connections: 2, number of positions: 2, cross section: 0.5 mm<sup>2</sup> - 10 mm<sup>2</sup>, AWG: 20 - 8, width: 16.4 mm, height: 49.3 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**

COMPLIANT

### Key Commercial Data

|              |                                                                                      |
|--------------|--------------------------------------------------------------------------------------|
| Packing unit | 50 pc                                                                                |
| GTIN         |  |
| GTIN         | 4046356650212                                                                        |

### Technical data

#### General

|                                        |                   |
|----------------------------------------|-------------------|
| Number of positions                    | 2                 |
| Number of levels                       | 1                 |
| Number of connections                  | 2                 |
| Potentials                             | 2                 |
| Nominal cross section                  | 6 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 |
| Maximum load current                   | 41 A (6)          |
| Rated surge voltage                    | 8 kV              |

# Plug - PP-H 6/ 2 - 3061570

## Technical data

### General

|                                                                         |                                                       |
|-------------------------------------------------------------------------|-------------------------------------------------------|
| Degree of pollution                                                     | 3                                                     |
| Overvoltage category                                                    | III                                                   |
| Insulating material group                                               | I                                                     |
| Maximum power dissipation for nominal condition                         | 1.31 W                                                |
| Maximum load current                                                    | 41 A (with 6 mm <sup>2</sup> conductor cross section) |
| Nominal current I <sub>N</sub>                                          | 41 A                                                  |
| Nominal voltage U <sub>N</sub>                                          | 1000 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  | 16.4 mm |
| Length | 21 mm   |
| Height | 49.3 mm |
|        | 31.2 mm |
| Pitch  | 8.2 mm  |

### Connection data

|                                                                            |                     |
|----------------------------------------------------------------------------|---------------------|
| Connection                                                                 | 1 level             |
| Connection method                                                          | Push-in connection  |
| Stripping length                                                           | 12 mm               |
| Connection in acc. with standard                                           | IEC 61984           |
| 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.                                      | 6 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> |

## Plug - PP-H 6/ 2 - 3061570

### Technical data

#### Connection data

|                                                                                                        |                                      |
|--------------------------------------------------------------------------------------------------------|--------------------------------------|
| 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>                  |
| Connection cross sections directly pluggable                                                           | 1 mm <sup>2</sup> 10 mm <sup>2</sup> |
| Conductor cross section solid min.                                                                     | 1 mm <sup>2</sup>                    |
| Conductor cross section solid max.                                                                     | 10 mm <sup>2</sup>                   |
| Conductor cross section flexible, with ferrule without plastic sleeve min.                             | 1 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.                                | 1 mm <sup>2</sup>                    |
| Conductor cross section flexible, with ferrule with plastic sleeve max.                                | 6 mm <sup>2</sup>                    |
| Internal cylindrical gage                                                                              | A5                                   |

#### Standards and Regulations

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

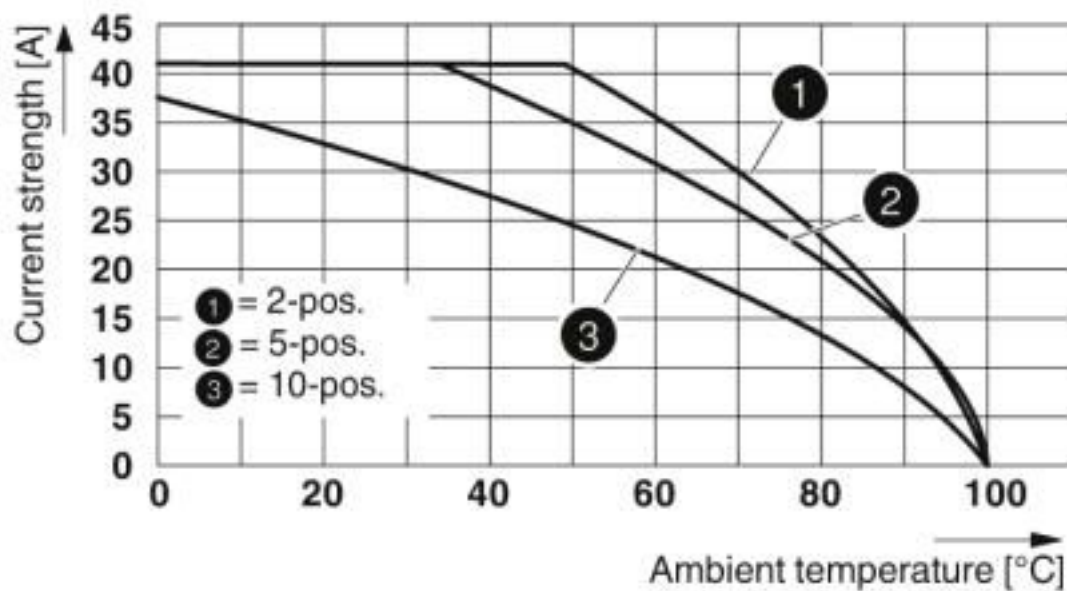
#### Environmental Product Compliance

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

### Drawings

## Plug - PP-H 6/ 2 - 3061570

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 3.0 | EC000897 |
| ETIM 4.0 | EC002021 |
| ETIM 5.0 | EC002021 |
| ETIM 6.0 | EC002021 |
| ETIM 7.0 | EC002021 |

## Plug - PP-H 6/ 2 - 3061570

### 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

CSA / UL Recognized / cUL Recognized / IECCEB Scheme / VDE Gutachten mit Fertigungsüberwachung / EAC / EAC / 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 | 600 V                                                                               | 600 V                                                                                                                                   | 600 V |
| Nominal current IN | 40 A                                                                                | 40 A                                                                                                                                    | 40 A  |
| mm²/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                                                                                                                                                     |              |
| Nominal voltage UN | 600 V                                                                               | 600 V                                                                                                                                                 |              |
| Nominal current IN | 40 A                                                                                | 40 A                                                                                                                                                  |              |
| mm²/AWG/kcmil      | 20-8                                                                                | 20-8                                                                                                                                                  |              |

## Plug - PP-H 6/ 2 - 3061570

### 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 | 40 A                                                                              | 40 A                                                                                                                                                  |              |
| mm²/AWG/kcmil      | 20-8                                                                              | 20-8                                                                                                                                                  |              |

|                    |                                                                                   |                                                           |              |
|--------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------|--------------|
| IECEE CB Scheme    |  | <a href="http://www.iecee.org/">http://www.iecee.org/</a> | DE1-56601/B2 |
|                    |                                                                                   |                                                           |              |
| Nominal voltage UN | 1000 V                                                                            |                                                           |              |

|                                            |                                                                                    |                                                                                                                                                                                                                |          |
|--------------------------------------------|------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| VDE Gutachten mit<br>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/<br/>VDE-gepruefteProdukte/Seiten/Online-Suche.aspx</a> | 40043445 |
|                                            |                                                                                    |                                                                                                                                                                                                                |          |
| Nominal voltage UN                         | 1000 V                                                                             |                                                                                                                                                                                                                |          |

|     |                                                                                     |                          |
|-----|-------------------------------------------------------------------------------------|--------------------------|
| 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 6/2 - 3000680



Cable housing, pitch: 16.4 mm, length: 21 mm, width: 16.4 mm, height: 52.3 mm, number of positions: 2, color: gray

## Plug - PP-H 6/ 2 - 3061570

### Accessories

---

#### Cable housing - PH 6/3 - 3000681



Cable housing, pitch: 24.6 mm, length: 21 mm, width: 24.6 mm, height: 52.3 mm, number of positions: 3, color: gray

---

#### Cable housing - PH 6/4 - 3000682



Cable housing, pitch: 32.8 mm, length: 21 mm, width: 32.8 mm, height: 52.3 mm, number of positions: 4, color: gray

---

#### Cable housing - PH 6/5 - 3000683



Cable housing, pitch: 41 mm, length: 21 mm, width: 41 mm, height: 52.3 mm, number of positions: 5, color: gray

---

#### Cable housing - PH 6/6 - 3000684



Cable housing, pitch: 49.2 mm, length: 21 mm, width: 49.2 mm, height: 52.3 mm, number of positions: 6, color: gray

---

#### Cable housing - PH 6/7 - 3000685



Cable housing, pitch: 57.4 mm, length: 21 mm, width: 57.4 mm, height: 52.3 mm, number of positions: 7, color: gray

---

### Insulating sleeve

## Plug - PP-H 6/ 2 - 3061570

### Accessories

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



---

Insulating sleeve - MPS-IH YE - 0201692

Insulating sleeve, color: yellow



---

Insulating sleeve - MPS-IH GN - 0201702

Insulating sleeve, color: green



## Plug - PP-H 6/ 2 - 3061570

### Accessories

Insulating sleeve - MPS-IH GY - 0201728

Insulating sleeve, color: gray



---

Insulating sleeve - MPS-IH BK - 0201731

Insulating sleeve, color: black



---

### Labeled terminal marker

Zack Marker strip, flat - ZBF 8 CUS - 0825030



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: 8 mm, lettering field size: 5.15 x 8.15 mm, Number of individual labels: 10

---

Zack Marker strip, flat - ZBF 8,LGS:FORTL.ZAHLEN - 0808804



Zack Marker strip, flat, Strip, white, labeled, printed horizontally: consecutive numbers 1 ... 10, 11 ... 20, etc. up to 101 ... 110, mounting type: snap into flat marker groove, for terminal block width: 8 mm, lettering field size: 5.15 x 8.15 mm, Number of individual labels: 10

---

Marker for terminal blocks - UC-TMF 8 CUS - 0824654



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: 8.2 mm, lettering field size: 7.6 x 5.1 mm, Number of individual labels: 56

## Plug - PP-H 6/ 2 - 3061570

### Accessories

Marker for terminal blocks - UCT-TMF 8 CUS - 0829672



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: 8.2 mm, lettering field size: 7.4 x 4.7 mm, Number of individual labels: 42

---

### Mounting material

Latching - PRZ - 3040614



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

---

Latching - PR - 3040559



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

---

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 6/ 2 - 3061570

### Accessories

Bend protection sleeve - CPH 9-15 - 3000768



Bend protection sleeve, for cable diameter of 9 mm ... 15 mm, diameter: 12 mm, color: black

---

### Screwdriver tools

Screwdriver - SZF 2-0,8X4,0 - 1204520



Actuation tool, for ST terminal blocks, also suitable for use as a bladed screwdriver, size: 0.8 x 4.0 x 100 mm, 2-component grip, with non-slip grip

---

### Shield connection

Shield connection clamp - PSH 3- 6 - 3040591



Shield connection clamp, color: black

---

Shield connection clamp - PSH 5-10 - 3040601



Shield connection clamp, color: black

---

Shield connection - HSH-METALL-6/8 - 3000770



Shield connection, material: Metal, Suitable for PH 4/ and PH 6/ cable housings (pitches: 6 mm and 8 mm), color: silver/black

---

### Strain relief

## Plug - PP-H 6/ 2 - 3061570

### Accessories

Strain relief - PZ/2 - 3040627



Strain relief, length: 48.7 mm, width: 9.3 mm, number of positions: 2, color: black

---

Cable clamp - HSR 6/8 - 3000769



Cable clamp, color: silver

---

### Terminal marking

Zack Marker strip, flat - ZBF 8:UNBEDRUCKT - 0808781



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: 8 mm, lettering field size: 5.15 x 8.15 mm, Number of individual labels: 10

---

Marker for terminal blocks - UC-TMF 8 - 0818137



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: 8.2 mm, lettering field size: 7.6 x 5.1 mm, Number of individual labels: 56

---

Marker for terminal blocks - UCT-TMF 8 - 0828748



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: 8.2 mm, lettering field size: 7.4 x 4.7 mm, Number of individual labels: 42

---

Test plug terminal block

## Plug - PP-H 6/ 2 - 3061570

### Accessories

Test plugs - MPS-MT - 0201744



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

---

Phoenix Contact 2020 © - all rights reserved  
<http://www.phoenixcontact.com>

PHOENIX CONTACT GmbH & Co. KG  
Flachsmarktstr. 8  
32825 Blomberg  
Germany  
Tel. +49 5235 300  
Fax +49 5235 3 41200  
<http://www.phoenixcontact.com>

# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Phoenix Contact:

3061570