# PP-H 2,5/ 8 - Plug

3209934

https://www.phoenixcontact.com/us/products/3209934

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Plug, nom. voltage: 500 V, nominal current: 24 A, number of connections: 8, number of positions: 8, connection method: Push-in connection, 1 level, Rated cross section: 2.5 mm$^2$, cross section: 0.14 mm$^2$ - 4 mm$^2$, mounting type: Plug-in mounting, 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

## Commercial data

| | |
|---|---|
| Item number | 3209934 |
| Packing unit | 25 pc |
| Minimum order quantity | 25 pc |
| Sales key | BE22 |
| Product key | BE2244 |
| Catalog page | Page 298 (C-1-2019) |
| GTIN | 4046356366823 |
| Weight per piece (including packing) | 26.974 g |
| Weight per piece (excluding packing) | 26.924 g |
| Customs tariff number | 85366990 |
| Country of origin | PL |

# PP-H 2,5/ 8 - Plug

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## Technical data

### Product properties

| | |
|---|---|
| Product type | Terminal plug |
| Area of application | Railway industry |
| | Machine building |
| | Plant engineering |
| Number of positions | 8 |
| Pitch | 5.2 mm |
| Number of connections | 8 |
| Number of rows | 1 |
| Potentials | 1 |

#### Insulation characteristics

| | |
|---|---|
| Overvoltage category | III |
| Degree of pollution | 3 |

### Electrical properties

| | |
|---|---|
| Rated surge voltage | 6 kV |
| Maximum power dissipation for nominal condition | 0.77 W |

### Connection data

| | |
|---|---|
| Number of connections per level | 8 |
| Nominal cross section | 2.5 mm² |

#### 1 level

| | |
|---|---|
| Stripping length | 8 mm ... 10 mm |
| Internal cylindrical gage | A3 |
| Connection in acc. with standard | IEC 61984 |
| Conductor cross section rigid | 0.14 mm² ... 4 mm² |
| Cross section AWG | 26 ... 12 (converted acc. to IEC) |
| Conductor cross section flexible | 0.14 mm² ... 2.5 mm² |
| Conductor cross section, flexible [AWG] | 26 ... 14 (converted acc. to IEC) |
| Conductor cross-section flexible (ferrule without plastic sleeve) | 0.14 mm² ... 2.5 mm² |
| Flexible conductor cross section (ferrule with plastic sleeve) | 0.14 mm² ... 2.5 mm² |
| 2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve | 0.5 mm² |
| Nominal current | 24 A |
| Maximum load current | 24 A (with 4 mm² conductor cross section) |
| Nominal voltage | 500 V |
| Nominal cross section | 2.5 mm² |

#### 1 level Connection cross sections directly pluggable

| | |
|---|---|
| Conductor cross section rigid | 0.34 mm² ... 4 mm² |
| Conductor cross-section flexible (ferrule without plastic sleeve) | 0.34 mm² ... 2.5 mm² |

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| Flexible conductor cross section (ferrule with plastic sleeve) | 0.34 mm² ... 2.5 mm² |
|---|---|

## Dimensions

| | |
|---|---|
| Width | 41.6 mm |
| Height | 15.8 mm |
| Depth | 40.2 mm |
| Pitch | 5.2 mm |

## Material specifications

| | |
|---|---|
| Color | gray |
| Flammability rating according to UL 94 | V0 |
| Insulating material group | I |
| Insulating material | PA |
| Static insulating material application in cold | -60 °C |
| Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21)) | 130 °C |
| Relative insulation material temperature index (Elec., UL 746 B) | 130 °C |
| 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 |
| Calorimetric heat release NFPA 130 (ASTM E 1354) | 28 MJ/kg |
| Surface flammability NFPA 130 (ASTM E 162) | passed |
| Specific optical density of smoke NFPA 130 (ASTM E 662) | passed |
| Smoke gas toxicity NFPA 130 (SMP 800C) | passed |

## Mechanical properties

### Mechanical data

| | |
|---|---|
| Open side panel | No |

## Environmental and real-life conditions

### Ambient conditions

| | |
|---|---|
| Ambient temperature (operation) | -60 °C (max. operating temperature see derating curve) |
| Ambient temperature (storage/transport) | -25 °C ... 60 °C (for a short time, no longer than 24 h, -60°C to +70°C) |
| Ambient temperature (assembly) | -5 °C ... 70 °C |
| Ambient temperature (actuation) | -5 °C ... 70 °C |
| Permissible humidity (operation) | 20 % ... 90 % |
| Permissible humidity (storage/transport) | 30 % ... 70 % |

## Standards and regulations

| | |
|---|---|
| Connection in acc. with standard | IEC 61984 |

## Mounting

| Mounting type | Plug-in mounting |
|---|---|

## Drawings

### Diagram



1 = 5-pos.   4 mm²
2 = 2-pos.   2,5 mm²
3 = 5-pos.   2,5 mm²
4 = 10-pos. 2,5 mm²
5 = 15-pos. 2,5 mm²

Current strength [A] vs Ambient temperature [°C]

### Circuit diagram

3209934
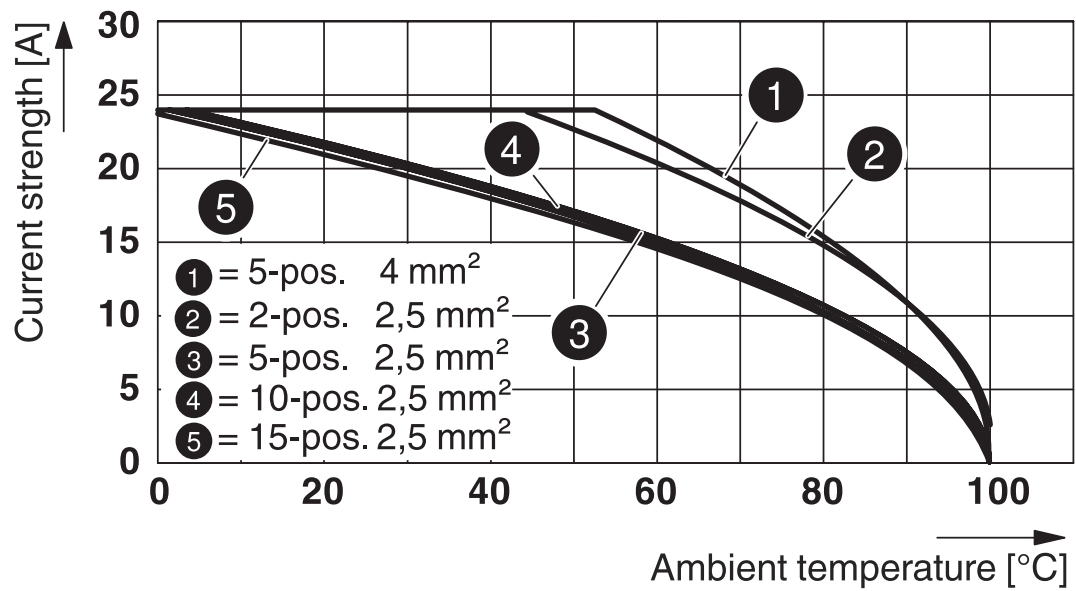
https://www.phoenixcontact.com/us/products/3209934

## Approvals

💡 To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/3209934

**DNV**
Approval ID: TAE00003JE

**CSA**
Approval ID: 2030668

| | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section mm$^2$ |
|---|---|---|---|---|
| Use group B | | | | |
| | 300 V | 20 A | 26 - 12 | - |
| Use group C | | | | |
| | 300 V | 20 A | 26 - 12 | - |

**EAC**
Approval ID: RU C-DE.BL08.B.00511

**cULus Recognized**
Approval ID: E60425

**LR**
Approval ID: LR2371832TA

**NK**
Approval ID: 14ME0912

**RS**
Approval ID: 22.44.01.00083.250

**BV**
Approval ID: 25278/C1 BV

**ABS**
Approval ID: 21-2192245-PDA

**LR**
Approval ID: 14/20056

| cULus Recognized |
| --- |
| Approval ID: E60425 |

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## Classifications

### ECLASS

| | |
|---|---|
| ECLASS-11.0 | 27141151 |
| ECLASS-12.0 | 27141151 |
| ECLASS-13.0 | 27250306 |

### ETIM

| | |
|---|---|
| ETIM 9.0 | EC002021 |

### UNSPSC

| | |
|---|---|
| UNSPSC 21.0 | 39121400 |

# Environmental product compliance

### EU RoHS

| | |
|---|---|
| Fulfills EU RoHS substance requirements | Yes, No exemptions |

### China RoHS

| | |
|---|---|
| Environment friendly use period (EFUP) | EFUP-E |
| | No hazardous substances above the limits |

### EU REACH SVHC

| | |
|---|---|
| REACH candidate substance (CAS No.) | No substance above 0.1 wt% |

## Accessories

### PZ/2 - Strain relief

3040627

https://www.phoenixcontact.com/us/products/3040627

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

### PZ/4 - Strain relief

3040643

https://www.phoenixcontact.com/us/products/3040643

Strain relief, width: 19.6 mm, height: 48.7 mm, number of positions: 4, color: black

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## PR - Latching

3040559

https://www.phoenixcontact.com/us/products/3040559

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

## PR/2 - Latching

3040630

https://www.phoenixcontact.com/us/products/3040630

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

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https://www.phoenixcontact.com/us/products/3209934

## PRT/2 - Latching

3040631

https://www.phoenixcontact.com/us/products/3040631

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

## PRZ - Latching

3040614

https://www.phoenixcontact.com/us/products/3040614

Latching, number of positions: 2, length: 64 mm, color: orange

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## DF-SP-H 2,5 - Flange cover

3209824

https://www.phoenixcontact.com/us/products/3209824

Flange cover, connection method: Screw connection, depth: 24.7 mm, width: 4.5 mm, height: 35.8 mm, color: gray

## PH 2,5/ 8 - Cable housing

3209756

https://www.phoenixcontact.com/us/products/3209756

Cable housing, pitch: 41.6 mm, depth: 36.8 mm, width: 41.6 mm, height: 19.9 mm, number of positions: 8, color: gray

# PP-H 2,5/ 8 - Plug

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https://www.phoenixcontact.com/us/products/3209934

## MPS-MT - Test plug

0201744

https://www.phoenixcontact.com/us/products/0201744

Test plug, with solder connection up to 1 mm$^2$ conductor cross section, number of positions: 1, color: gray

## MPS-IH WH - Insulating sleeve

0201663

https://www.phoenixcontact.com/us/products/0201663

Insulating sleeve, color: white

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https://www.phoenixcontact.com/us/products/3209934

## MPS-IH RD - Insulating sleeve

0201676

https://www.phoenixcontact.com/us/products/0201676

Insulating sleeve, color: red

## MPS-IH BU - Insulating sleeve

0201689

https://www.phoenixcontact.com/us/products/0201689

Insulating sleeve, color: blue

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3209934
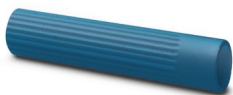
https://www.phoenixcontact.com/us/products/3209934

## MPS-IH YE - Insulating sleeve

0201692

https://www.phoenixcontact.com/us/products/0201692

Insulating sleeve, color: yellow

## MPS-IH GN - Insulating sleeve

0201702

https://www.phoenixcontact.com/us/products/0201702

Insulating sleeve, color: green

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https://www.phoenixcontact.com/us/products/3209934

## MPS-IH GY - Insulating sleeve

0201728

https://www.phoenixcontact.com/us/products/0201728

Insulating sleeve, color: gray
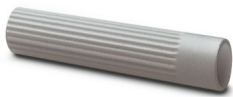
## MPS-IH BK - Insulating sleeve

0201731

https://www.phoenixcontact.com/us/products/0201731

Insulating sleeve, color: black

# PP-H 2,5/ 8 - Plug

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https://www.phoenixcontact.com/us/products/3209934

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

3002843

https://www.phoenixcontact.com/us/products/3002843

Insulating sleeve, color: white

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

3002856

https://www.phoenixcontact.com/us/products/3002856

Insulating sleeve, color: gray

# PP-H 2,5/ 8 - Plug

3209934

https://www.phoenixcontact.com/us/products/3209934

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

3002869

https://www.phoenixcontact.com/us/products/3002869

Insulating sleeve, color: black

## ZBF 5:UNBEDRUCKT - Zack Marker strip, flat

0808642

https://www.phoenixcontact.com/us/products/0808642

Zack Marker strip, flat, Strip, white, unlabeled, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, mounting type: snapped, for terminal block width: 5 mm, lettering field size: 5.1 x 5.2 mm, Number of individual labels: 10

# PP-H 2,5/ 8 - Plug

3209934

https://www.phoenixcontact.com/us/products/3209934

## ZBF 5 CUS - Zack Marker strip, flat

0825025

https://www.phoenixcontact.com/us/products/0825025

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

## ZBF 5,LGS:FORTL.ZAHLEN - Zack Marker strip, flat

0808671

https://www.phoenixcontact.com/us/products/0808671

Zack Marker strip, flat, Strip, white, labeled, printed horizontally: consecutive numbers 1 ... 10, 11 ... 20, etc. up to 491 ... 500, mounting type: snapped, for terminal block width: 5 mm, lettering field size: 5.15 x 5.15 mm, Number of individual labels: 10

# PP-H 2,5/ 8 - Plug

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https://www.phoenixcontact.com/us/products/3209934

## ZBF 5,QR:FORTL.ZAHLEN - Zack Marker strip, flat

0808697

https://www.phoenixcontact.com/us/products/0808697

Zack Marker strip, flat, Strip, white, labeled, Printed vertically: consecutive numbers 1 ... 10, 11 ... 20, etc. up to 91 ... 100, mounting type: snapped, for terminal block width: 5 mm, lettering field size: 5.15 x 5.15 mm, Number of individual labels: 10

## ZBF 5,LGS:GERADE ZAHLEN - Zack Marker strip, flat

0810821

https://www.phoenixcontact.com/us/products/0810821

Zack Marker strip, flat, Strip, white, labeled, printed horizontally: consecutive even numbers 2 ... 20, 22 ... 40, etc. up to 82 ... 100, mounting type: snapped, for terminal block width: 5 mm, lettering field size: 5.15 x 5.15 mm, Number of individual labels: 10

# PP-H 2,5/ 8 - Plug

3209934

https://www.phoenixcontact.com/us/products/3209934

## ZBF 5,LGS:UNGERADE ZAHLEN - Zack Marker strip, flat

0810863

https://www.phoenixcontact.com/us/products/0810863

Zack Marker strip, flat, Strip, white, labeled, printed horizontally: Odd numbers 1 - 19, 21 - 39, etc. up to 81 - 99, mounting type: snapped, for terminal block width: 5 mm, lettering field size: 5.15 x 5.15 mm, Number of individual labels: 10

## UC-TMF  5 - Marker for terminal blocks

0818153

https://www.phoenixcontact.com/us/products/0818153
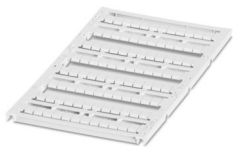
Marker for terminal blocks, Sheet, white, unlabeled, can be labeled with: BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, PLOTMARK, CMS-P1-PLOTTER, mounting type: snapped, for terminal block width: 5.2 mm, lettering field size: 4.6 x 5.1 mm, Number of individual labels: 96

# PP-H 2,5/ 8 - Plug

3209934

https://www.phoenixcontact.com/us/products/3209934

## UC-TMF  5 CUS - Marker for terminal blocks

0824638

https://www.phoenixcontact.com/us/products/0824638

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: 5.2 mm, lettering field size: 4.6 x 5.1 mm, Number of individual labels: 96

## UCT-TMF 5 - Marker for terminal blocks

0828744

https://www.phoenixcontact.com/us/products/0828744

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: snapped, for terminal block width: 5.2 mm, lettering field size: 4.4 x 4.7 mm, Number of individual labels: 72

# PP-H 2,5/ 8 - Plug

3209934

https://www.phoenixcontact.com/us/products/3209934

## UCT-TMF 5 CUS - Marker for terminal blocks

0829658

https://www.phoenixcontact.com/us/products/0829658

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: 5.2 mm, lettering field size: 4.4 x 4.7 mm, Number of individual labels: 72

## DFS-SP-H 2,5 - Flange cover

3061431

https://www.phoenixcontact.com/us/products/3061431

Flange cover, depth: 24.7 mm, width: 4.5 mm, height: 35.8 mm, color: gray

# PP-H 2,5/ 8 - Plug

3209934

https://www.phoenixcontact.com/us/products/3209934

## ST-BW - Actuation tool

1207608

https://www.phoenixcontact.com/us/products/1207608

Actuation tool, for all 2.5 mm$^2$ - 4.0 mm$^2$ spring-cages

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