# PP-H 4/ 1-L - Plug

3211948

https://www.phoenixcontact.com/gb/products/3211948

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Plug, nom. voltage: 800 V, nominal current: 32 A, number of connections: 1, number of positions: 1, connection method: Push-in connection, 1st level connection left, Rated cross section: 4 $mm^2$, cross section: 0.2 $mm^2$ - 6 $mm^2$, 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 | 3211948 |
| Packing unit | 50 pc |
| Minimum order quantity | 50 pc |
| Sales key | BE2244 |
| Product key | BE2244 |
| Catalog page | Page 327 (C-1-2019) |
| GTIN | 4046356482943 |
| Weight per piece (including packing) | 5.04 g |
| Weight per piece (excluding packing) | 4.472 g |
| Customs tariff number | 85366990 |
| Country of origin | PL |

# Technical data

## Product properties

| | |
|---|---|
| Product type | Terminal plug |
| Area of application | Railway industry |
| | Machine building |
| | Plant engineering |
| Number of positions | 1 |
| Pitch | 6.2 mm |
| Number of connections | 1 |
| Number of rows | 1 |
| Potentials | 1 |

Insulation characteristics

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

## Electrical properties

| | |
|---|---|
| Rated surge voltage | 8 kV |
| Maximum power dissipation for nominal condition | 1.02 W |

## Connection data

| | |
|---|---|
| Number of connections per level | 1 |
| Nominal cross section | 4 mm² |

1st level connection left

| | |
|---|---|
| Stripping length | 10 mm ... 12 mm |
| Internal cylindrical gage | A4 |
| Connection in acc. with standard | IEC 61984 |
| Conductor cross section rigid | 0.2 mm² ... 6 mm² |
| Cross section AWG | 24 ... 10 (converted acc. to IEC) |
| Conductor cross section flexible | 0.2 mm² ... 4 mm² |
| Conductor cross section, flexible [AWG] | 24 ... 12 (converted acc. to IEC) |
| Conductor cross-section flexible (ferrule without plastic sleeve) | 0.25 mm² ... 4 mm² |
| Flexible conductor cross section (ferrule with plastic sleeve) | 0.25 mm² ... 4 mm² |
| 2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve | 0.5 mm² ... 1 mm² |
| Nominal current | 32 A |
| Maximum load current | 32 A (with 6 mm² conductor cross section) |
| Nominal voltage | 800 V |
| Nominal cross section | 4 mm² |

1st level connection left Connection cross sections directly pluggable

| | |
|---|---|
| Conductor cross section rigid | 0.5 mm² ... 6 mm² |
| Conductor cross-section flexible (ferrule without plastic sleeve) | 0.5 mm² ... 4 mm² |

| | |
|---|---|
| Flexible conductor cross section (ferrule with plastic sleeve) | 0.5 mm² ... 4 mm² |

## Dimensions

| | |
|---|---|
| Width | 6.2 mm |
| Height | 21 mm |
| Depth | 42.3 mm |
| Pitch | 6.2 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 | Yes |

## 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

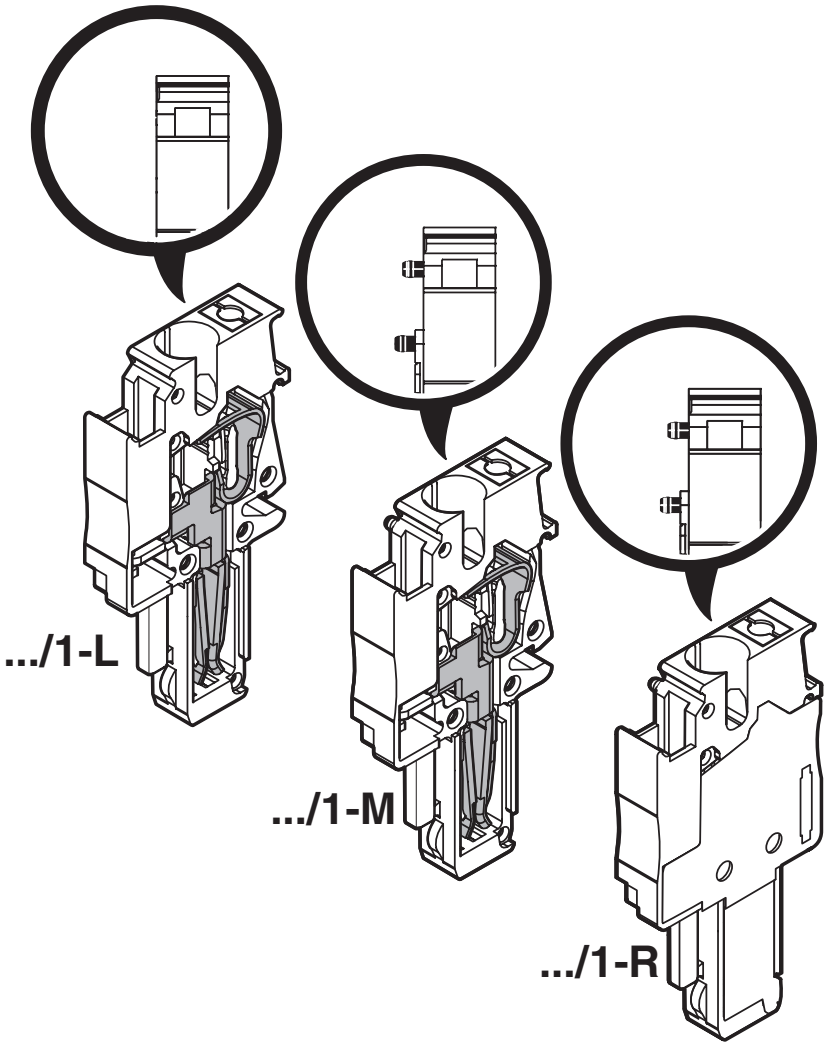
| | |
|---|---|
| Connection in acc. with standard | IEC 61984 |

## Mounting

| | |
|---|---|
| Assembly note | Use of a parallel pressing tool is recommended for easy latching of the COMBI connector and coupling elements for self-assembly |

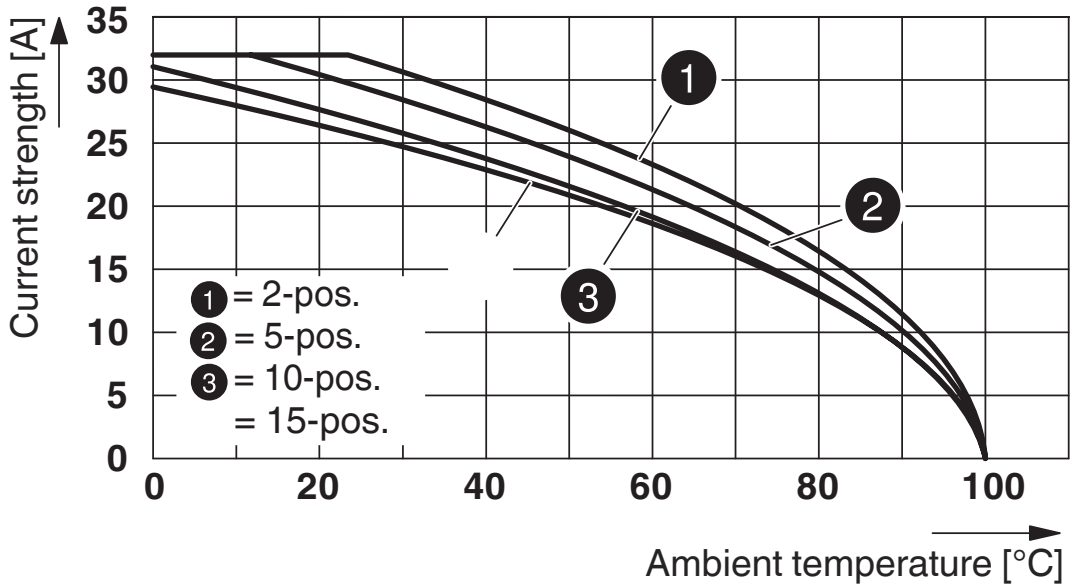
## Drawings

Schematic diagram



Circuit diagram

Diagram



## Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/gb/products/3211948

**DNV**
Approval ID: TAE000010T

**IECEE CB Scheme**
Approval ID: DE1-64672_B1_B2

| | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
|---|---|---|---|---|
| | 800 V | 32 A | - | - |

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

**cULus Recognized**
Approval ID: E60425

**BV**
Approval ID: 39979/B0 BV

**VDE Zeichengenehmigung**
Approval ID: 40043445

| | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
|---|---|---|---|---|
| Only flexible conductors | 800 V | 32 A | - | 0.2 - 4 |

**cULus Recognized**
Approval ID: E60425

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Approval ID: E60425

## 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% |



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