

# Plug - PP-H 2,5/ 6

3209918

<https://www.phoenixcontact.com/de/produkte/3209918>



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Plug, nom. voltage: 500 V, nominal current: 24 A, connection method: Push-in connection, 1 level, Rated cross section: 2.5 mm<sup>2</sup>, cross section: 0.14 mm<sup>2</sup> - 4 mm<sup>2</sup>, 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                          | 3209918             |
| Packing unit                         | 25 pc               |
| Minimum order quantity               | 25 pc               |
| Sales Key                            | A1 - Reihenklemmen  |
| Product Key                          | BE2244              |
| Catalog Page                         | Page 298 (C-1-2019) |
| GTIN                                 | 4046356366809       |
| Weight per Piece (including packing) | 20,36 g             |
| Weight per Piece (excluding packing) | 20,245 g            |
| Customs tariff number                | 85366990            |
| Country of origin                    | PL                  |

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## Technical Data

### Product properties

|                       |                   |
|-----------------------|-------------------|
| Product type          | Terminal plug     |
| Number of positions   | 6                 |
| Pitch                 | 5.2 mm            |
| Area of application   | Railway industry  |
|                       | Machine building  |
|                       | Plant engineering |
| Number of connections | 6                 |
| 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 | 6                   |
| Nominal cross section           | 2.5 mm <sup>2</sup> |

#### 1 level

|   |   |
|---|---|
| Stripping length  | 8 mm ... 10 mm  |
| Internal cylindrical gage   | A3  |
| Connection in acc. with standard  | IEC 61984   |
| Conductor cross section solid   | 0.14 mm <sup>2</sup> ... 4 mm <sup>2</sup>            |
| Cross section AWG   | 26 ... 12 (converted acc. to IEC)                     |
| Conductor cross section flexible  | 0.14 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>          |
| Conductor cross section, flexible [AWG]   | 26 ... 14 (converted acc. to IEC)                     |
| Flexible conductor cross section flexible (ferrule, w/o plastic sleeve)                   | 0.14 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>          |
| Flexible conductor cross section (ferrule with plastic sleeve)                            | 0.14 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>          |
| 2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve | 0.5 mm <sup>2</sup>                                   |
| Nominal current   | 24 A  |
| Maximum load current  | 24 A (with 4 mm <sup>2</sup> conductor cross section) |
| Nominal voltage   | 500 V   |
| Nominal cross section   | 2.5 mm <sup>2</sup>                                   |

#### 1 level Connection cross sections directly pluggable

|                               |  |
|-------------------------------|--|
| Conductor cross section solid | 0.34 mm <sup>2</sup> ... 4 mm <sup>2</sup> |
|-------------------------------|--|

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|   |  |
|---|--|
| Flexible conductor cross section flexible (ferrule, w/o plastic sleeve) | 0.34 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> |
| Flexible conductor cross section (ferrule with plastic sleeve)          | 0.34 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> |

## Dimensions

|        |         |
|--------|---------|
| Width  | 31.2 mm |
| Height | 40.2 mm |
| Length | 15.8 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 ... 105 °C (max. short-term operating temperature RTI Elec.)       |
| Ambient temperature (storage/transport)  | -25 °C ... 60 °C (for a short time, not exceeding 24 h, -60 °C to +70 °C) |
| Ambient temperature (assembly)           | -5 °C ... 70 °C   |
| Ambient temperature (actuation)          | -5 °C ... 70 °C   |
| Permissible humidity (storage/transport) | 30 % ... 70 %   |

## Standards and regulations

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

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## Mounting

Mounting type

Plug-in mounting

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## Drawings

Diagram



Circuit diagram



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## Approvals

**DNV**

Approval ID: TAE00003JE



**CSA**

Approval ID: 13631

|             | Nominal Voltage $U_N$ | Nominal Current $I_N$ | Cross Section AWG | Cross Section $\text{mm}^2$ |
|-------------|-----------------------|-----------------------|-------------------|-----------------------------|
| 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

|             | Nominal Voltage $U_N$ | Nominal Current $I_N$ | Cross Section AWG | Cross Section $\text{mm}^2$ |
|-------------|-----------------------|-----------------------|-------------------|-----------------------------|
| Use group B |                       |                       |                   |                             |
|             | 300 V                 | 20 A                  | 26 - 12           | -                           |
| Use group C |                       |                       |                   |                             |
|             | 300 V                 | 20 A                  | 26 - 12           | -                           |
| Use group D |                       |                       |                   |                             |
|             | 600 V                 | 5 A                   | 26 - 12           | -                           |



**LR**

Approval ID: 12/20038 (E3)



**NK**

Approval ID: 14ME0912



**RS**

Approval ID: 22.44.01.00083.250



**BV**

Approval ID: 25278/C1 BV

|  | Nominal Voltage $U_N$ | Nominal Current $I_N$ | Cross Section AWG | Cross Section $\text{mm}^2$ |
|--|-----------------------|-----------------------|-------------------|-----------------------------|
|  |                       |                       | -                 | -                           |

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**ABS**

Approval ID: 21-2192245-PDA



**LR**

Approval ID: 14/20056

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## Classifications

### ECLASS

|               |          |
|---------------|----------|
| ECLASS-9.0    | 27141151 |
| ECLASS-10.0.1 | 27141151 |
| ECLASS-11.0   | 27141151 |

### ETIM

|          |          |
|----------|----------|
| ETIM 8.0 | EC002021 |
|----------|----------|

### UNSPSC

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

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## Environmental Product Compliance

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

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