

## Plug - PP-H 1,5/S/5 - 3212549

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Plug, nom. voltage: 500 V, nominal current: 17.5 A, connection method: Push-in connection, number of connections: 5, number of positions: 5, cross section: 0.14 mm<sup>2</sup> - 1.5 mm<sup>2</sup>, AWG: 26 - 14, width: 17.5 mm, height: 31.3 mm, color: gray, mounting type: Plug-in mounting

### 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



### Key Commercial Data

|              |   |
|--------------|---|
| Packing unit | 50 pc   |
| GTIN         | <br>4 046356 565684 |
| GTIN         | 4046356565684   |

### Technical data

#### General

|  |   |
|--|---|
| Number of positions                    | 5   |
| Number of levels                       | 1   |
| Number of connections                  | 5   |
| Potentials                             | 5   |
| Nominal cross section                  | 1.5 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                   | 17.5 A (with 1.5 mm <sup>2</sup> conductor cross section) |
| Rated surge voltage                    | 6 kV  |

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## Technical data

### General

|   |   |
|---|---|
| Degree of pollution   | 3   |
| Overvoltage category  | III   |
| Insulating material group   | I   |
| Maximum power dissipation for nominal condition                         | 0.56 W  |
| Designation   | Level 1   |
| Maximum load current  | 17.5 A (with 1.5 mm <sup>2</sup> conductor cross section) |
| Nominal current I <sub>N</sub>  | 17.5 A (observe derating)                                 |
| Nominal voltage U <sub>N</sub>  | 500 V   |
| Open side panel   | Yes   |
| 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  |
| Behavior in fire for rail vehicles (DIN 5510-2)                         | Test passed   |
| Flame test method (DIN EN 60695-11-10)                                  | V0  |
| Oxygen index (DIN EN ISO 4589-2)  | >32 %   |
| NF F16-101, NF F10-102 Class I  | 2   |
| NF F16-101, NF F10-102 Class F  | 2   |
| 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  |
| Calorimetric heat release NFPA 130 (ASTM E 1354)                        | 28 MJ/kg  |
| 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  | 17.5 mm |
| Length | 16.5 mm |
| Height | 31.3 mm |
|        | 19.5 mm |
| Pitch  | 3.5 mm  |

### Connection data

|                                    |                      |
|------------------------------------|----------------------|
| Connection                         | 1 level              |
| Connection method                  | Push-in connection   |
| Stripping length                   | 8 mm ... 10 mm       |
| Connection in acc. with standard   | IEC 61984            |
| Conductor cross section solid min. | 0.14 mm <sup>2</sup> |
| Conductor cross section solid max. | 1.5 mm <sup>2</sup>  |
| Conductor cross section AWG min.   | 26                   |

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### Technical data

#### Connection data

|  |                      |
|--|----------------------|
| Conductor cross section AWG max.   | 14                   |
| Conductor cross section flexible min.                                      | 0.14 mm <sup>2</sup> |
| Conductor cross section flexible max.                                      | 1.5 mm <sup>2</sup>  |
| Min. AWG conductor cross section, flexible                                 | 26                   |
| Max. AWG conductor cross section, flexible                                 | 14                   |
| Conductor cross section flexible, with ferrule without plastic sleeve min. | 0.14 mm <sup>2</sup> |
| Conductor cross section flexible, with ferrule without plastic sleeve max. | 1.5 mm <sup>2</sup>  |
| Conductor cross section flexible, with ferrule with plastic sleeve min.    | 0.14 mm <sup>2</sup> |
| Conductor cross section flexible, with ferrule with plastic sleeve max.    | 1 mm <sup>2</sup>    |
| Internal cylindrical gage  | A1 / B1              |

#### Standards and Regulations

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

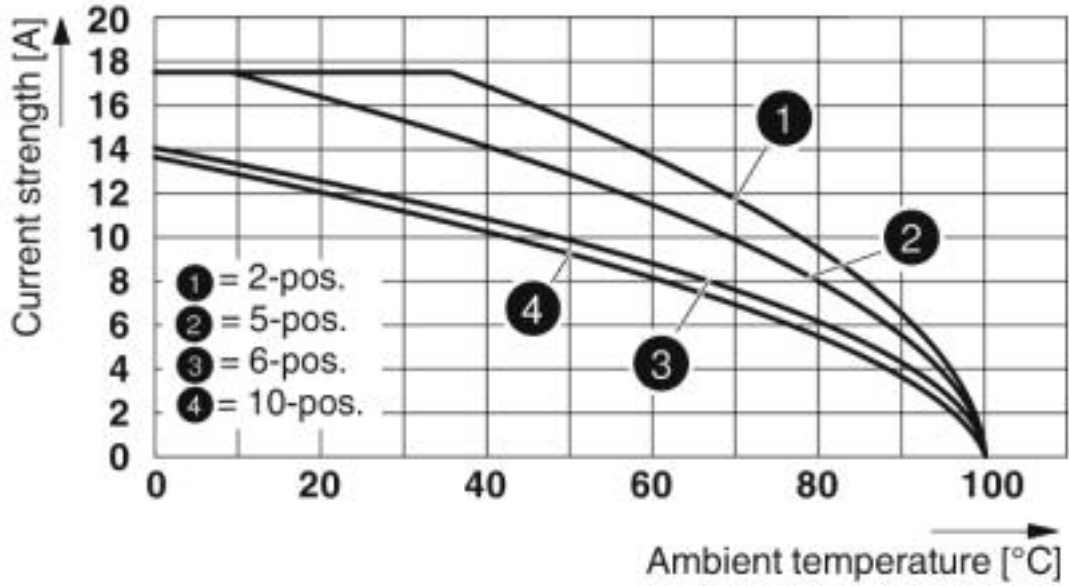
#### Environmental Product Compliance

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

### Drawings

# Plug - PP-H 1,5/S/5 - 3212549

Diagram



Circuit diagram



## Approvals

Approvals

Approvals

CSA / BV / LR / NK / UL Recognized / cUL Recognized / IECCE CB Scheme / VDE Gutachten mit Fertigungsüberwachung / EAC / DNV GL / 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         | 300 V | 300 V   | 600 V |
| Nominal current IN         | 15 A  | 15 A  | 5 A   |
| mm <sup>2</sup> /AWG/kcmil | 26-14 | 26-14   | 26-14 |

# Plug - PP-H 1,5/S/5 - 3212549

## Approvals

|    |  |   |             |
|----|--|---|-------------|
| 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/A0 BV |
|----|--|---|-------------|

|    |  |   |               |
|----|--|---|---------------|
| LR |  | <a href="http://www.lr.org/en">http://www.lr.org/en</a> | 12/20038 (E3) |
|----|--|---|---------------|

|    |                |   |          |
|----|----------------|---|----------|
| NK | <b>ClassNK</b> | <a href="http://www.classnk.or.jp/hp/en/">http://www.classnk.or.jp/hp/en/</a> | 14ME0912 |
|----|----------------|---|----------|

|                            |       |   |              |
|----------------------------|-------|---|--------------|
| 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   | D            |
| Nominal voltage UN         | 300 V | 300 V   | 600 V        |
| Nominal current IN         | 15 A  | 15 A  | 5 A          |
| mm <sup>2</sup> /AWG/kcmil | 26-14 | 26-14   | 26-14        |

|                            |       |   |              |
|----------------------------|-------|---|--------------|
| 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   | D            |
| Nominal voltage UN         | 300 V | 300 V   | 600 V        |
| Nominal current IN         | 15 A  | 15 A  | 5 A          |
| mm <sup>2</sup> /AWG/kcmil | 26-14 | 26-14   | 26-14        |

|                            |          |   |                 |
|----------------------------|----------|---|-----------------|
| IECEE CB Scheme            |          | <a href="http://www.iecee.org/">http://www.iecee.org/</a> | DE1-58483_B1_M1 |
| Nominal voltage UN         | 500 V    |   |                 |
| mm <sup>2</sup> /AWG/kcmil | 0.14-1.5 |   |                 |

|   |          |   |          |
|---|----------|---|----------|
| VDE Gutachten mit 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/VDE-gepruefteProdukte/Seiten/Online-Suche.aspx</a> | 40034766 |
| Nominal voltage UN                      | 500 V    |   |          |
| mm <sup>2</sup> /AWG/kcmil              | 0.14-1.5 |   |          |

## Plug - PP-H 1,5/S/5 - 3212549

### Approvals

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

|        |   |   |            |
|--------|---|---|------------|
| DNV GL |  | <a href="https://approvalfinder.dnvgl.com/">https://approvalfinder.dnvgl.com/</a> | TAE00003JE |
|--------|---|---|------------|

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

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