

Plug - PP-H 4/12 - 3212080

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Plug, nom. voltage: 800 V, nominal current: 32 A, connection method: Push-in / plug connection, number of connections: 12, number of positions: 12, cross section: 0.2 mm² - 6 mm², AWG: 24 - 10, width: 74.4 mm, height: 42.3 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



Key Commercial Data

| | |
|--------------|---------------|
| Packing unit | 10 pc |
| GTIN | |
| GTIN | 4046356483162 |

Technical data

General

| | |
|--|-------------------|
| Number of positions | 12 |
| Number of levels | 1 |
| Number of connections | 12 |
| Potentials | 12 |
| Nominal cross section | 4 mm ² |
| Color | gray |
| Insulating material | PA |
| Flammability rating according to UL 94 | V0 |
| Area of application | Railway industry |
| | Machine building |
| | Plant engineering |
| Rated surge voltage | 8 kV |
| Degree of pollution | 3 |

Plug - PP-H 4/12 - 3212080

Technical data

General

| | |
|---|---|
| Overvoltage category | III |
| Insulating material group | I |
| Maximum power dissipation for nominal condition | 1.02 W |
| Maximum load current | 32 A (with 6 mm ² conductor cross section) |
| Nominal current I _N | 32 A |
| Nominal voltage U _N | 800 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 | 74.4 mm |
| Length | 21 mm |
| Height | 42.3 mm |
| | 24 mm |
| Pitch | 6.2 mm |

Connection data

| | |
|--|---------------------------|
| Connection | 1st level connection left |
| Connection method | Push-in / plug connection |
| Stripping length | 10 mm ... 12 mm |
| Connection in acc. with standard | IEC 61984 |
| Conductor cross section solid min. | 0.2 mm ² |
| Conductor cross section solid max. | 6 mm ² |
| Conductor cross section AWG min. | 24 |
| Conductor cross section AWG max. | 10 |
| Conductor cross section flexible min. | 0.2 mm ² |
| Conductor cross section flexible max. | 4 mm ² |
| Min. AWG conductor cross section, flexible | 24 |
| Max. AWG conductor cross section, flexible | 12 |
| Conductor cross section flexible, with ferrule without plastic sleeve min. | 0.25 mm ² |
| Conductor cross section flexible, with ferrule without plastic sleeve max. | 4 mm ² |

Plug - PP-H 4/12 - 3212080

Technical data

Connection data

| | |
|--|---------------------------------------|
| Conductor cross section flexible, with ferrule with plastic sleeve min. | 0.25 mm ² |
| Conductor cross section flexible, with ferrule with plastic sleeve max. | 4 mm ² |
| Two conductors with the same cross section, flexible, with TWIN ferrules, with plastic sleeve, minimum | 0.5 mm ² |
| Two conductors with the same cross section, flexible, with TWIN ferrules, with plastic sleeve, maximum | 1 mm ² |
| Connection cross sections directly pluggable | 0.5 mm ² 6 mm ² |
| Conductor cross section solid min. | 0.5 mm ² |
| Conductor cross section solid max. | 6 mm ² |
| Conductor cross section flexible, with ferrule without plastic sleeve min. | 0.5 mm ² |
| Conductor cross section flexible, with ferrule without plastic sleeve max. | 4 mm ² |
| Conductor cross section flexible, with ferrule with plastic sleeve min. | 0.5 mm ² |
| Conductor cross section flexible, with ferrule with plastic sleeve max. | 4 mm ² |
| Internal cylindrical gage | A4 |

Standards and Regulations

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

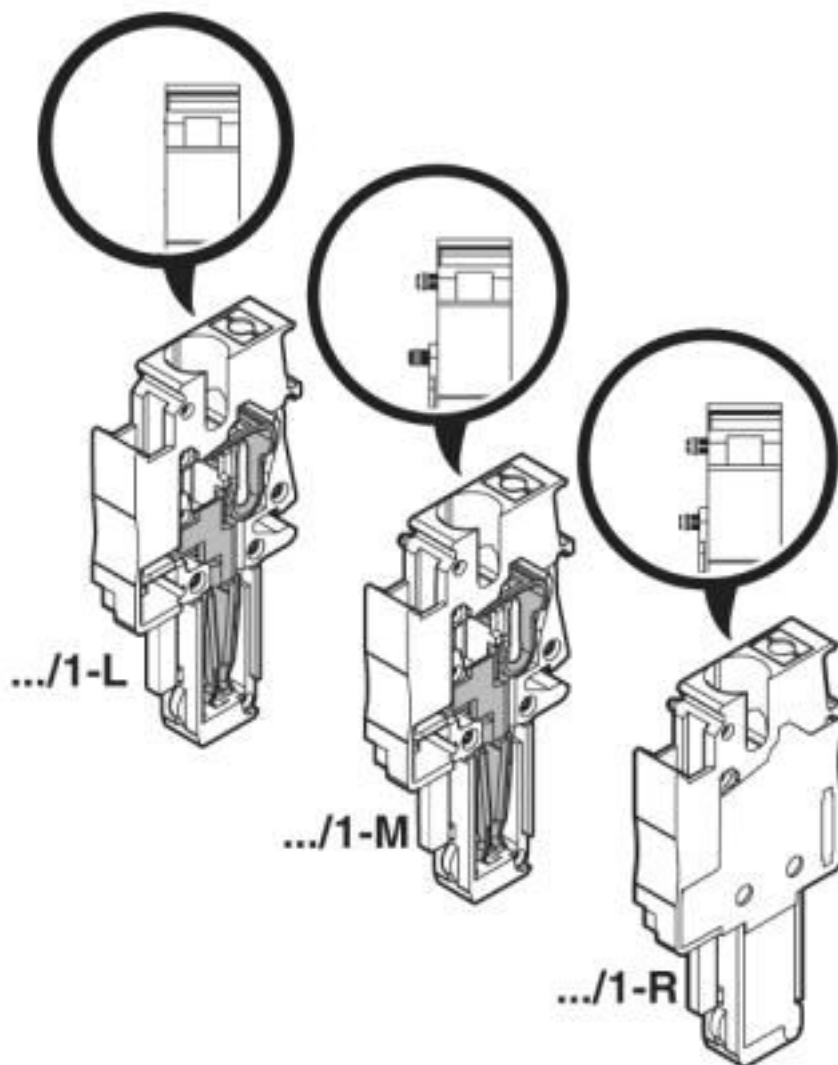
Environmental Product Compliance

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

Drawings

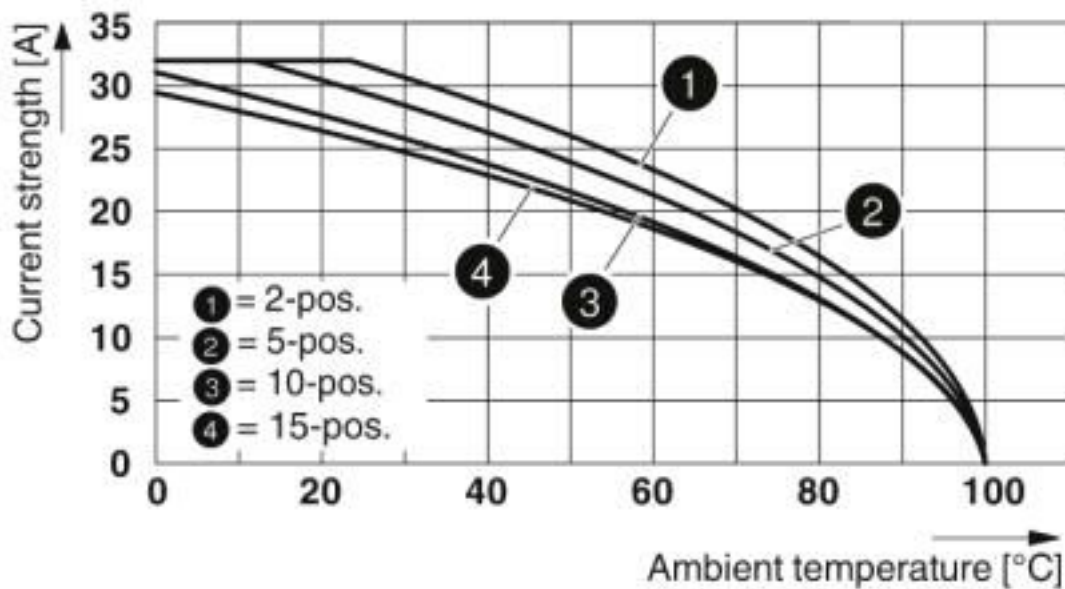
Plug - PP-H 4/12 - 3212080

Schematic diagram



Plug - PP-H 4/12 - 3212080

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 4.0 | EC002021 |
| ETIM 5.0 | EC002021 |
| ETIM 6.0 | EC002021 |
| ETIM 7.0 | EC002021 |

Plug - PP-H 4/12 - 3212080

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

DNV GL / BV / LR / UL Recognized / cUL Recognized / EAC / EAC / cULus Recognized


Ex Approvals

Approval details

| | | | |
|--------|---|---|------------|
| DNV GL |  | https://approvalfinder.dnvgl.com/ | TAE000010T |
|--------|---|---|------------|

| | | | |
|----|---|---|-------------|
| BV |  | http://www.veristar.com/portal/veristarinfo/generalinfo/approved/approvedProducts/equipmentAndMaterials | 39979/B0 BV |
|----|---|---|-------------|

| | | | |
|----|---|---|----------|
| LR |  | http://www.lr.org/en | 14/20057 |
|----|---|---|----------|

| | | | |
|----------------------------|---|---|--------------|
| UL Recognized |  | http://database.ul.com/cgi-bin/XYVV/template/LISEXT/1FRAME/index.htm | FILE E 60425 |
| | B | C | |
| Nominal voltage UN | 600 V | 600 V | |
| Nominal current IN | 28 A | 28 A | |
| mm ² /AWG/kcmil | 24-10 | 24-10 | |

Plug - PP-H 4/12 - 3212080

Approvals

| | | | |
|----------------------------|--|---|--------------|
| cUL Recognized | | http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm | FILE E 60425 |
| | | B | C |
| Nominal voltage UN | | 600 V | 600 V |
| Nominal current IN | | 28 A | 28 A |
| mm ² /AWG/kcmil | | 24-10 | 24-10 |

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

| | | |
|-----|--|--------------------------|
| EAC | | RU C- DE.BL08.B.00511 |
|-----|--|--------------------------|

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

Accessories

Accessories

Cable housing

Cable housing - PH 4/2 - 3000734



Cable housing, pitch: 6.2 mm, length: 21 mm, width: 12.4 mm, height: 52.3 mm, number of positions: 2, color: gray

Cable housing - PH 4/3 - 3000736



Cable housing, pitch: 6.2 mm, length: 21 mm, width: 18.6 mm, height: 52.3 mm, number of positions: 3, color: gray

Plug - PP-H 4/12 - 3212080

Accessories

Cable housing - PH 4/4 - 3000737



Cable housing, pitch: 6.2 mm, length: 21 mm, width: 24.8 mm, height: 52.3 mm, number of positions: 4, color: gray

Cable housing - PH 4/5 - 3000738



Cable housing, pitch: 6.2 mm, length: 21 mm, width: 31 mm, height: 52.3 mm, number of positions: 5, color: gray

Cable housing - PH 4/6 - 3000739



Cable housing, pitch: 6.2 mm, length: 21 mm, width: 37.2 mm, height: 52.3 mm, number of positions: 6, color: gray

Cable housing - PH 4/7 - 3000740



Cable housing, pitch: 6.2 mm, length: 21 mm, width: 43.4 mm, height: 52.3 mm, number of positions: 7, color: gray

Cable housing - PH 4/8 - 3000741



Cable housing, pitch: 6.2 mm, length: 21 mm, width: 49.6 mm, height: 52.3 mm, number of positions: 8, color: gray

Plug - PP-H 4/12 - 3212080

Accessories

Cable housing - PH 4/9 - 3000742



Cable housing, pitch: 6.2 mm, length: 21 mm, width: 55.8 mm, height: 52.3 mm, number of positions: 9, color: gray

Cable housing - PH 4/10 - 3000743



Cable housing, pitch: 6.2 mm, length: 21 mm, width: 62 mm, height: 52.3 mm, number of positions: 10, color: gray

Insulating sleeve

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



Plug - PP-H 4/12 - 3212080

Accessories

Insulating sleeve - MPS-IH YE - 0201692

Insulating sleeve, color: yellow



Insulating sleeve - MPS-IH GN - 0201702

Insulating sleeve, color: green



Insulating sleeve - MPS-IH GY - 0201728

Insulating sleeve, color: gray



Insulating sleeve - MPS-IH BK - 0201731

Insulating sleeve, color: black



Insulating sleeve - ISH 4/0,5 - 3002885

Insulating sleeve, color: gray



Plug - PP-H 4/12 - 3212080

Accessories

Insulating sleeve - ISH 4/1,0 - 3002898



Insulating sleeve, color: black

Labeled terminal marker

Zack Marker strip, flat - ZBF 6 CUS - 0825027



Zack Marker strip, flat, Strip, can be ordered: Strip, white, labeled according to customer specifications, mounting type: snap into flat marker groove, for terminal block width: 6.2 mm, lettering field size: 5.15 x 6.15 mm, Number of individual labels: 10

Marker for terminal blocks - UC-TMF 6 CUS - 0824646



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: 6.2 mm, lettering field size: 5.6 x 5.1 mm, Number of individual labels: 80

Marker for terminal blocks - UCT-TMF 6 CUS - 0829665



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: 6.2 mm, lettering field size: 5.4 x 4.7 mm, Number of individual labels: 60

Zack Marker strip, flat - ZBF 6,LGS:FORTL.ZAHLEN - 0808749



Zack Marker strip, flat, Strip, white, labeled, printed horizontally: consecutive numbers 1 ... 10, 11 ... 20, etc. up to 91 ... 100, mounting type: snap into flat marker groove, for terminal block width: 6.2 mm, lettering field size: 5.15 x 6.15 mm, Number of individual labels: 10

Plug - PP-H 4/12 - 3212080

Accessories

Zack Marker strip, flat - ZBF 6,QR:FORTL.ZAHLEN - 0808765



Zack Marker strip, flat, Strip, white, labeled, Printed vertically: consecutive numbers 1 ... 10, 11 ... 20, etc. up to 91 ... 100, mounting type: snap into flat marker groove, for terminal block width: 6.2 mm, lettering field size: 5.15 x 6.15 mm, Number of individual labels: 10

Zack Marker strip, flat - ZBF 6,LGS:GERADE ZAHLEN - 0810834



Zack Marker strip, flat, Strip, white, labeled, printed horizontally: consecutive numbers 2 ... 20, 22 ... 40, etc. up to 82 ... 100, mounting type: snap into flat marker groove, for terminal block width: 6.2 mm, lettering field size: 5.15 x 6.15 mm, Number of individual labels: 10

Zack Marker strip, flat - ZBF 6,LGS:UNGERADE ZAHLEN - 0810876



Zack Marker strip, flat, Strip, white, labeled, printed horizontally: Odd numbers 1 - 19, 21 - 39, etc. up to 81 - 99, mounting type: snap into flat marker groove, for terminal block width: 6.2 mm, lettering field size: 5.15 x 6.15 mm, Number of individual labels: 10

Mounting material

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 4/12 - 3212080

Accessories

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

Screwdriver tools

Screwdriver - SZF 1-0,6X3,5 - 1204517



Actuation tool, for ST terminal blocks, also suitable for use as a bladed screwdriver, size: 0.6 x 3.5 x 100 mm, 2-component grip, with non-slip grip

Actuation tool - ST-BW - 1207608



Actuation tool, for all 2.5 mm² - 4.0 mm² spring-cages

Shield connection

Shield connection clamp - PSH 3- 6 - 3040591



Shield connection clamp, color: black

Plug - PP-H 4/12 - 3212080

Accessories

Shield connection clamp - PSH 5-10 - 3040601



Shield connection clamp, color: black

Terminal marking

Zack Marker strip, flat - ZBF 6:UNBEDRUCKT - 0808710



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: 6.2 mm, lettering field size: 5.15 x 6.15 mm, Number of individual labels: 10

Marker for terminal blocks - UC-TMF 6 - 0818140



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: 6.2 mm, lettering field size: 5.6 x 5.1 mm, Number of individual labels: 80

Marker for terminal blocks - UCT-TMF 6 - 0828746



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: 6.2 mm, lettering field size: 5.4 x 4.7 mm, Number of individual labels: 60

Test plug terminal block

Test plugs - MPS-MT - 0201744



Test plugs, with solder connection up to 1 mm² conductor cross section, color: gray

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