

COMBI receptacle - PPC 6/1-L - 3000690

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COMBI receptacle, nom. voltage: 1000 V, nominal current: 41 A, connection method: Push-in / plug connection, number of connections: 2, number of positions: 1, cross section: 0.5 mm² - 10 mm², AWG: 20 - 8, width: 8.2 mm, height: 24.7 mm, color: gray

Your advantages

- ✓ The Push-in technology COMBI couplings for self-assembly provide solutions that users can implement themselves
- ✓ For secure and space-saving accommodation of plug-in contacts in cable ducts and distributor shafts
- ✓ Tested for railway applications



Key Commercial Data

| | |
|--------------|---|
| Packing unit | 50 pc |
| GTIN |  4 046356 751797 |
| GTIN | 4046356751797 |

Technical data

General

| | |
|--|---|
| Number of positions | 1 |
| Number of levels | 1 |
| Number of connections | 2 |
| Potentials | 1 |
| Nominal cross section | 6 mm ² |
| Color | gray |
| Insulating material | PA |
| Flammability rating according to UL 94 | V0 |
| Area of application | Railway industry |
| | Machine building |
| | Plant engineering |
| Assembly instructions | Use of a parallel pressing tool is recommended for easy latching of the COMBI connector and coupling elements for self-assembly |
| Maximum load current | 41 A (with 6 mm ² conductor cross section) |

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Technical data

General

| | |
|---|---|
| Rated surge voltage | 8 kV |
| Degree of pollution | 3 |
| Overvoltage category | III |
| Insulating material group | I |
| Maximum power dissipation for nominal condition | 1.31 W |
| Maximum load current | 41 A (with 6 mm ² conductor cross section) |
| Nominal current I _N | 41 A (observe derating) |
| Nominal voltage U _N | 1000 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)) | 125 °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) | 27,5 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 | 8.2 mm |
| End cover width | 2.2 mm |
| Length | 47 mm |
| Height | 24.7 mm |
| Pitch | 8.2 mm |

Connection data

| | |
|--|---------------------------|
| Connection | 1 level |
| Connection method | Push-in / plug connection |
| Stripping length | 12 mm |
| Connection in acc. with standard | IEC 61984 |
| Conductor cross section solid min. | 0.5 mm ² |
| Conductor cross section solid max. | 10 mm ² |
| Conductor cross section AWG min. | 20 |
| Conductor cross section AWG max. | 8 |
| Conductor cross section flexible min. | 0.5 mm ² |
| Conductor cross section flexible max. | 6 mm ² |
| Min. AWG conductor cross section, flexible | 20 |
| Max. AWG conductor cross section, flexible | 10 |

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Technical data

Connection data

| | |
|--|--------------------------------------|
| Conductor cross section flexible, with ferrule without plastic sleeve min. | 0.5 mm ² |
| Conductor cross section flexible, with ferrule without plastic sleeve max. | 6 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. | 6 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 | 1.5 mm ² |
| Connection cross sections directly pluggable | 1 mm ² 10 mm ² |
| Conductor cross section solid min. | 1 mm ² |
| Conductor cross section solid max. | 10 mm ² |
| Conductor cross section flexible, with ferrule without plastic sleeve min. | 1 mm ² |
| Conductor cross section flexible, with ferrule without plastic sleeve max. | 6 mm ² |
| Conductor cross section flexible, with ferrule with plastic sleeve min. | 1 mm ² |
| Conductor cross section flexible, with ferrule with plastic sleeve max. | 6 mm ² |
| Internal cylindrical gage | A5 |

Standards and Regulations

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

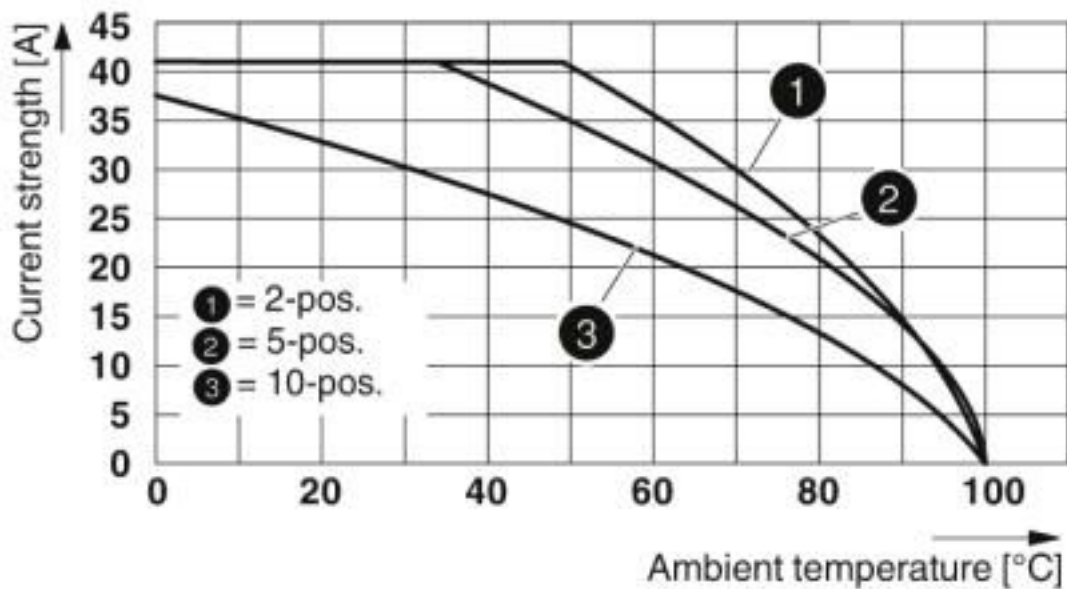
Environmental Product Compliance

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

Drawings

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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 |

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Classifications

ETIM

| | |
|----------|----------|
| ETIM 3.0 | EC000897 |
| ETIM 4.0 | EC002021 |
| ETIM 5.0 | EC002021 |
| ETIM 6.0 | EC002021 |
| ETIM 7.0 | EC002021 |

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 / CSA / BV / LR / UL Recognized / cUL Recognized / IECEE CB Scheme / VDE Gutachten mit Fertigungsüberwachung / EAC / EAC / cULus Recognized

Ex Approvals

Approval details

| | | | |
|--------|---|---|------------|
| DNV GL |  | https://approvalfinder.dnvgl.com/ | TAE000015D |
|--------|---|---|------------|


| | | | |
|----------------------------|---|---|-------|
| CSA |  | http://www.csagroup.org/services-industries/product-listing/ | 13631 |
| | B | C | |
| Nominal voltage UN | 600 V | 600 V | |
| Nominal current IN | 36 A | 36 A | |
| mm ² /AWG/kcmil | 20-8 | 20-8 | |


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Approvals


| | | | |
|----|---|---|----------|
| BV |  | http://www.veristar.com/portal/veristarinfo/generalinfo/approved/approvedProducts/equipmentAndMaterials | 45602/A0 |
|----|---|---|----------|

| | | | |
|----|---|---|----------|
| LR |  | http://www.lr.org/en | 16/20057 |
|----|---|---|----------|

| | | | |
|----------------------------|---|---|--------------|
| UL 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 | 40 A | 40 A | |
| mm ² /AWG/kcmil | 20-8 | 20-8 | |

| | | | |
|----------------------------|---|---|--------------|
| 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 | 40 A | 40 A | |
| mm ² /AWG/kcmil | 20-8 | 20-8 | |


| | | | |
|--------------------|---|---|--------------|
| IECEE CB Scheme |  | http://www.iecee.org/ | DE1-56601/B1 |
| Nominal voltage UN | 1000 V | | |


| | | | |
|---|---|---|----------|
| VDE Gutachten mit Fertigungsüberwachung |  | http://www2.vde.com/de/Institut/Online-Service/VDE-gepruefteProdukte/Seiten/Online-Suche.aspx | 40043445 |
| Nominal voltage UN | 1000 V | | |

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

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Approvals

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

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

Accessories

Accessories

Coding element

Coding star - PC - 3040588



Coding star, length: 3 mm, width: 3 mm, height: 6 mm, color: red

End cover

End cover - D-PPC 6 - 3000703



End cover, length: 47 mm, width: 2.2 mm, height: 24.7 mm, color: gray

Insulating sleeve

Insulating sleeve - MPS-IH WH - 0201663

Insulating sleeve, color: white



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Accessories

Insulating sleeve - MPS-IH RD - 0201676

Insulating sleeve, color: red



Insulating sleeve - MPS-IH BU - 0201689

Insulating sleeve, color: blue



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



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Accessories

Insulating sleeve - MPS-IH BK - 0201731

Insulating sleeve, color: black



Labeled terminal marker

Zack Marker strip, flat - ZBF 8 CUS - 0825030



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: 8 mm, lettering field size: 5.15 x 8.15 mm, Number of individual labels: 10

Zack Marker strip, flat - ZBF 8,LGS:FORTL.ZAHLEN - 0808804



Zack Marker strip, flat, Strip, white, labeled, printed horizontally: consecutive numbers 1 ... 10, 11 ... 20, etc. up to 101 ... 110, mounting type: snap into flat marker groove, for terminal block width: 8 mm, lettering field size: 5.15 x 8.15 mm, Number of individual labels: 10

Marker for terminal blocks - UC-TMF 8 CUS - 0824654



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: 8.2 mm, lettering field size: 7.6 x 5.1 mm, Number of individual labels: 56

Marker for terminal blocks - UCT-TMF 8 CUS - 0829672



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: 8.2 mm, lettering field size: 7.4 x 4.7 mm, Number of individual labels: 42

Screwdriver tools

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Accessories

Screwdriver - SZF 2-0,8X4,0 - 1204520



Actuation tool, for ST terminal blocks, also suitable for use as a bladed screwdriver, size: 0.8 x 4.0 x 100 mm, 2-component grip, with non-slip grip

Terminal marking

Zack Marker strip, flat - ZBF 8:UNBEDRUCKT - 0808781



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: 8 mm, lettering field size: 5.15 x 8.15 mm, Number of individual labels: 10

Marker for terminal blocks - UC-TMF 8 - 0818137



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: 8.2 mm, lettering field size: 7.6 x 5.1 mm, Number of individual labels: 56

Marker for terminal blocks - UCT-TMF 8 - 0828748



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: 8.2 mm, lettering field size: 7.4 x 4.7 mm, Number of individual labels: 42

Test plug terminal block

Test plugs - MPS-MT - 0201744



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

Necessary add-on products

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Accessories

Plug - PP-H 6/ 1 - 3061541



Plug, nom. voltage: 1000 V, nominal current: 41 A, connection method: Push-in connection, number of connections: 1, number of positions: 1, cross section: 0.5 mm² - 10 mm², AWG: 20 - 8, width: 8.2 mm, height: 49.3 mm, color: gray

Plug - PP-H 6/ 1 BU - 3061554



Plug, nom. voltage: 1000 V, nominal current: 41 A, connection method: Push-in connection, number of connections: 1, number of positions: 1, cross section: 0.5 mm² - 10 mm², AWG: 20 - 8, width: 8.2 mm, height: 49.3 mm, color: blue

Plug - PP-H 6/ 1 GNYE - 3061567



Plug, nom. voltage: 1000 V, nominal current: 41 A, connection method: Push-in connection, number of connections: 1, number of positions: 1, cross section: 0.5 mm² - 10 mm², AWG: 20 - 8, width: 8.2 mm, height: 49.3 mm, color: green-yellow

Plug - PP-H 6/10 - 3061651



Plug, nom. voltage: 1000 V, nominal current: 41 A, connection method: Push-in connection, number of connections: 10, number of positions: 10, cross section: 0.5 mm² - 10 mm², AWG: 20 - 8, width: 82 mm, height: 49.3 mm, color: gray

Plug - PP-H 6/ 1-L - 3061664



Plug, for self-assembly, nom. voltage: 1000 V, nominal current: 41 A, connection method: Push-in connection, number of connections: 1, number of positions: 1, cross section: 0.5 mm² - 10 mm², AWG: 20 - 8, width: 8.2 mm, height: 49.3 mm, color: gray

COMBI receptacle - PPC 6/1-L - 3000690

Accessories

Plug - PP-H 6/ 1-L BU - 3061677



Plug, for self-assembly, nom. voltage: 1000 V, nominal current: 41 A, connection method: Push-in connection, number of connections: 1, number of positions: 1, cross section: 0.5 mm² - 10 mm², AWG: 20 - 8, width: 8.2 mm, height: 49.3 mm, color: blue

Plug - PP-H 6/ 1-L GNYE - 3061680



Plug, for self-assembly, nom. voltage: 1000 V, nominal current: 41 A, connection method: Push-in connection, number of connections: 1, number of positions: 1, cross section: 0.5 mm² - 10 mm², AWG: 20 - 8, width: 8.2 mm, height: 49.3 mm, color: green/yellow

Plug - PP-H 6/ 1-M - 3061693



Plug, for self-assembly, nom. voltage: 1000 V, nominal current: 41 A, connection method: Push-in connection, number of connections: 1, number of positions: 1, cross section: 0.5 mm² - 10 mm², AWG: 20 - 8, width: 8.2 mm, height: 49.3 mm, color: gray

Plug - PP-H 6/ 1-M BU - 3061703



Plug, for self-assembly, nom. voltage: 1000 V, nominal current: 41 A, connection method: Push-in connection, number of connections: 1, number of positions: 1, cross section: 0.5 mm² - 10 mm², AWG: 20 - 8, width: 8.2 mm, height: 49.3 mm, color: blue

Plug - PP-H 6/ 1-M GNYE - 3061716



Plug, for self-assembly, nom. voltage: 1000 V, nominal current: 41 A, connection method: Push-in connection, number of connections: 1, number of positions: 1, cross section: 0.5 mm² - 10 mm², AWG: 20 - 8, width: 8.2 mm, height: 49.3 mm, color: green/yellow

COMBI receptacle - PPC 6/1-L - 3000690

Accessories

Plug - PP-H 6/ 1-R - 3061729



Plug, for self-assembly, nom. voltage: 1000 V, nominal current: 41 A, connection method: Push-in connection, number of connections: 1, number of positions: 1, cross section: 0.5 mm² - 10 mm², AWG: 20 - 8, width: 8.2 mm, height: 49.3 mm, color: gray

Plug - PP-H 6/ 1-R BU - 3061732



Plug, for self-assembly, nom. voltage: 1000 V, nominal current: 41 A, connection method: Push-in connection, number of connections: 1, number of positions: 1, cross section: 0.5 mm² - 10 mm², AWG: 20 - 8, width: 8.2 mm, height: 49.3 mm, color: blue

Plug - PP-H 6/ 1-R GNYE - 3061745



Plug, for self-assembly, nom. voltage: 1000 V, nominal current: 41 A, connection method: Push-in connection, number of connections: 1, number of positions: 1, cross section: 0.5 mm² - 10 mm², AWG: 20 - 8, width: 8.2 mm, height: 49.3 mm, color: green/yellow

Plug - PP-H 6/ 2 - 3061570



Plug, nom. voltage: 1000 V, nominal current: 41 A, connection method: Push-in connection, number of connections: 2, number of positions: 2, cross section: 0.5 mm² - 10 mm², AWG: 20 - 8, width: 16.4 mm, height: 49.3 mm, color: gray

Plug - PP-H 6/ 3 - 3061583



Plug, nom. voltage: 1000 V, nominal current: 41 A, connection method: Push-in connection, number of connections: 3, number of positions: 3, cross section: 0.5 mm² - 10 mm², AWG: 20 - 8, width: 24.6 mm, height: 49.3 mm, color: gray

COMBI receptacle - PPC 6/1-L - 3000690

Accessories

Plug - PP-H 6/ 4 - 3061596



Plug, nom. voltage: 1000 V, nominal current: 41 A, connection method: Push-in connection, number of connections: 4, number of positions: 4, cross section: 0.5 mm² - 10 mm², AWG: 20 - 8, width: 32.8 mm, height: 49.3 mm, color: gray

Plug - PP-H 6/ 5 - 3061606



Plug, nom. voltage: 1000 V, nominal current: 41 A, connection method: Push-in connection, number of connections: 5, number of positions: 5, cross section: 0.5 mm² - 10 mm², AWG: 20 - 8, width: 41 mm, height: 49.3 mm, color: gray

Plug - PP-H 6/ 6 - 3061619



Plug, nom. voltage: 1000 V, nominal current: 41 A, connection method: Push-in connection, number of connections: 6, number of positions: 6, cross section: 0.5 mm² - 10 mm², AWG: 20 - 8, width: 49.2 mm, height: 49.3 mm, color: gray

Plug - PP-H 6/ 7 - 3061622



Plug, nom. voltage: 1000 V, nominal current: 41 A, connection method: Push-in connection, number of connections: 7, number of positions: 7, cross section: 0.5 mm² - 10 mm², AWG: 20 - 8, width: 57.4 mm, height: 49.3 mm, color: gray

Plug - PP-H 6/ 8 - 3061635



Plug, nom. voltage: 1000 V, nominal current: 41 A, connection method: Push-in connection, number of connections: 8, number of positions: 8, cross section: 0.5 mm² - 10 mm², AWG: 20 - 8, width: 65.6 mm, height: 49.3 mm, color: gray

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Accessories

Plug - PP-H 6/ 9 - 3061648



Plug, nom. voltage: 1000 V, nominal current: 41 A, connection method: Push-in connection, number of connections: 9, number of positions: 9, cross section: 0.5 mm² - 10 mm², AWG: 20 - 8, width: 73.8 mm, height: 49.3 mm, color: gray

Strain relief - PZ/2 - 3040627



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

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