

## COMBI receptacle - PPC 2,5/12 - 3000666

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COMBI receptacle, Connection method: Push-in connection, Number of connections: 12, Number of positions: 12, Cross section: 0.14 mm<sup>2</sup> - 4 mm<sup>2</sup>, AWG: 26 - 12, Width: 61.8 mm, Height: 41 mm, Color: gray

The figure shows a similar product

### Why buy this product

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

### Key Commercial Data

|                      |               |
|----------------------|---------------|
| Packing unit         | 1             |
| GTIN                 |               |
| GTIN                 | 4046356676816 |
| Custom tariff number | 85366990      |

### Technical data

#### General

|  |   |
|--|---|
| Number of positions                    | 12  |
| Number of levels                       | 1   |
| Number of connections                  | 12  |
| Potentials                             | 1   |
| Nominal cross section                  | 2.5 mm <sup>2</sup>                                       |
| Color                                  | gray  |
| Insulating material                    | PA  |
| Flammability rating according to UL 94 | V0  |
| Maximum load current                   | 24 A (with a 2.5 mm <sup>2</sup> conductor cross section) |

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## Technical data

### General

|   |   |
|---|---|
| Rated surge voltage   | 6 kV  |
| Degree of pollution   | 3   |
| Overvoltage category  | III   |
| Insulating material group   | I   |
| Maximum power dissipation for nominal condition                         | 0.77 W  |
| Ambient temperature (operation)   | -60 °C ... 100 °C   |
| Maximum load current  | 24 A (with a 2.5 mm <sup>2</sup> conductor cross section) |
| Nominal current I <sub>N</sub>  | 24 A  |
| Nominal voltage U <sub>N</sub>  | 500 V   |
| Open side panel   | Yes   |
| Insertion/withdrawal cycles mechanical                                  | 100   |
| Result of surge voltage test  | Test passed   |
| Surge voltage test setpoint   | 7.3 kV  |
| Result of power-frequency withstand voltage test                        | Test passed   |
| Power frequency withstand voltage setpoint                              | 1.89 kV   |
| Short circuit stability result  | Test passed   |
| Conductor cross section short circuit testing                           | 2.5 mm <sup>2</sup>                                       |
| Short-time current  | 0.3 kA  |
| Result of thermal test  | Test passed   |
| Proof of thermal characteristics (needle flame) effective duration      | 30 s  |
| Oscillation, broadband noise test result                                | Test passed   |
| Test specification, oscillation, broadband noise                        | DIN EN 50155 (VDE 0115-200):2008-03                       |
| Test spectrum   | Service life test category 1, class B, body mounted       |
| Test frequency  | f <sub>1</sub> = 5 Hz to f <sub>2</sub> = 150 Hz          |
| ASD level   | 0.964 (m/s <sup>2</sup> ) <sup>2</sup> /Hz                |
| Acceleration  | 0.58 g  |
| Test duration per axis  | 5 h   |
| Test directions   | X-, Y- and Z-axis   |
| Shock test result   | Test passed   |
| Test specification, shock test  | DIN EN 50155 (VDE 0115-200):2008-03                       |
| Shock form  | Half-sine   |
| Acceleration  | 5 g   |
| Shock duration  | 30 ms   |
| Number of shocks per direction  | 3   |
| Test directions   | X-, Y- and Z-axis (pos. and neg.)                         |
| 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  |

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## Technical data

### General

|   |             |
|---|-------------|
| 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)        | 27,5 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  | 61.8 mm |
| Length | 20.5 mm |
| Height | 41 mm   |
| Pitch  | 5.2 mm  |

### Connection data

|   |                      |
|---|----------------------|
| Connection method   | Push-in connection   |
| Connection in acc. with standard  | IEC 61984            |
| Conductor cross section solid min.                                      | 0.14 mm <sup>2</sup> |
| Conductor cross section solid max.                                      | 4 mm <sup>2</sup>    |
| Conductor cross section AWG min.  | 26                   |
| Conductor cross section AWG max.  | 12                   |
| Conductor cross section flexible min.                                   | 0.14 mm <sup>2</sup> |
| Conductor cross section flexible max.                                   | 2.5 mm <sup>2</sup>  |
| Min. AWG conductor cross section, flexible                              | 26                   |
| Max. AWG conductor cross section, flexible                              | 14                   |
| Conductor cross section flexible, with ferrule with plastic sleeve min. | 0.14 mm <sup>2</sup> |
| Conductor cross section flexible, with ferrule with plastic sleeve max. | 2.5 mm <sup>2</sup>  |
| Stripping length  | 8 mm ... 10 mm       |
| Internal cylindrical gage   | A3                   |

### Standards and Regulations

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

# COMBI receptacle - PPC 2,5/12 - 3000666

## Technical data

### Standards and Regulations

|  |    |
|--|----|
| 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

### Circuit diagram



## Approvals


### Approvals


#### Approvals

UL Recognized / cUL Recognized / CSA / cULus Recognized

#### Ex Approvals

### Approval details

|                                |   |   |              |
|--------------------------------|---|---|--------------|
| 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   |              |
| mm <sup>2</sup> /AWG/kcmil     | 26-12   | 26-12   |              |
| Nominal current I <sub>N</sub> | 20 A  | 20 A  |              |
| Nominal voltage U <sub>N</sub> | 300 V   | 300 V   |              |


|                                |   |   |              |
|--------------------------------|---|---|--------------|
| 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   |              |
| mm <sup>2</sup> /AWG/kcmil     | 26-12   | 26-12   |              |
| Nominal current I <sub>N</sub> | 20 A  | 20 A  |              |

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### Approvals

|                    | B     | C     |
|--------------------|-------|-------|
| Nominal voltage UN | 300 V | 300 V |

| CSA                        |  | <a href="http://www.csagroup.org/services/testing-and-certification/certified-product-listing/">http://www.csagroup.org/services/testing-and-certification/certified-product-listing/</a> | 13631 |
|----------------------------|---|---|-------|
|                            | B   | C   |       |
| mm <sup>2</sup> /AWG/kcmil | 26-12   | 26-12   |       |
| Nominal current IN         | 20 A  | 20 A  |       |
| Nominal voltage UN         | 300 V   | 300 V   |       |

|                  |   |   |
|------------------|---|---|
| cULus 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> |
|------------------|---|---|