# UPBV 2,5/ 9 - Plug

3045473

https://www.phoenixcontact.com/us/products/3045473

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The figure shows the 6-position version

Plug, nom. voltage: 500 V, nominal current: 24 A, number of positions: 9, connection method: Screw connection, Rated cross section: 2.5 $mm^2$, cross section: 0.14 $mm^2$- 4 $mm^2$, color: gray

## Your advantages

- Can be bridged with FBS ... standard bridges
- Large-surface labeling option
- Practical coding option
- The connected conductors can be led directly into the cable duct to save space

## Commercial data

| | |
|---|---|
| Item number | 3045473 |
| Packing unit | 25 pc |
| Minimum order quantity | 25 pc |
| Sales key | BE01 |
| Product key | BE1144 |
| GTIN | 4046356055680 |
| Weight per piece (including packing) | 44.696 g |
| Weight per piece (excluding packing) | 44.696 g |
| Customs tariff number | 85366990 |
| Country of origin | TR |

## Technical data

### Notes

| | |
|---|---|
| Notes on operation | COMBI connectors are connectors without switching power in accordance with IEC 61984 and can be connected or disconnected without load or voltage when used as intended |

### Product properties

| | |
|---|---|
| Product type | Terminal plug |
| Number of positions | 9 |
| Pitch | 5.2 mm |
| Potentials | 1 |

Insulation characteristics

| | |
|---|---|
| Overvoltage category | III |
| Degree of pollution | 3 |

### Electrical properties

| | |
|---|---|
| Rated surge voltage | 6 kV |

### Connection data

| | |
|---|---|
| Nominal cross section | 2.5 mm² |
| Connection method | Screw connection |
| Screw thread | M3 |
| Tightening torque | 0.5 ... 0.6 Nm |
| Stripping length | 9 mm |
| Internal cylindrical gage | A3 |
| Connection in acc. with standard | IEC 61984 |
| Conductor cross-section rigid | 0.14 mm² ... 4 mm² |
| Cross section AWG | 26 ... 12 (converted acc. to IEC) |
| Conductor cross-section flexible | 0.14 mm² ... 4 mm² |
| Conductor cross-section, flexible [AWG] | 26 ... 12 (converted acc. to IEC) |
| Conductor cross-section flexible (ferrule without plastic sleeve) | 0.14 mm² ... 2.5 mm² |
| Flexible conductor cross-section (ferrule with plastic sleeve) | 0.14 mm² ... 2.5 mm² |
| 2 conductors with same cross section, rigid | 0.14 mm² ... 1.5 mm² |
| 2 conductors with same cross section, flexible | 0.14 mm² ... 1.5 mm² |
| 2 conductors with same cross section, flexible, with ferrule without plastic sleeve | 0.14 mm² ... 1.5 mm² |
| 2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve | 0.5 mm² ... 1 mm² |
| Nominal cross section | 2.5 mm² |
| Nominal current | 24 A |
| Maximum load current | 24 A (with 4 mm² conductor cross-section) |
| Nominal voltage | 500 V |

## Dimensions

| | |
|---|---|
| Width | 46.8 mm |
| Height | 20.5 mm |
| Depth | 47 mm |
| Length | 20.5 mm |
| Pitch | 5.2 mm |

## Material specifications

| | |
|---|---|
| Color | gray (RAL 7042) |
| 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 |

## Environmental and real-life conditions

### Ambient conditions

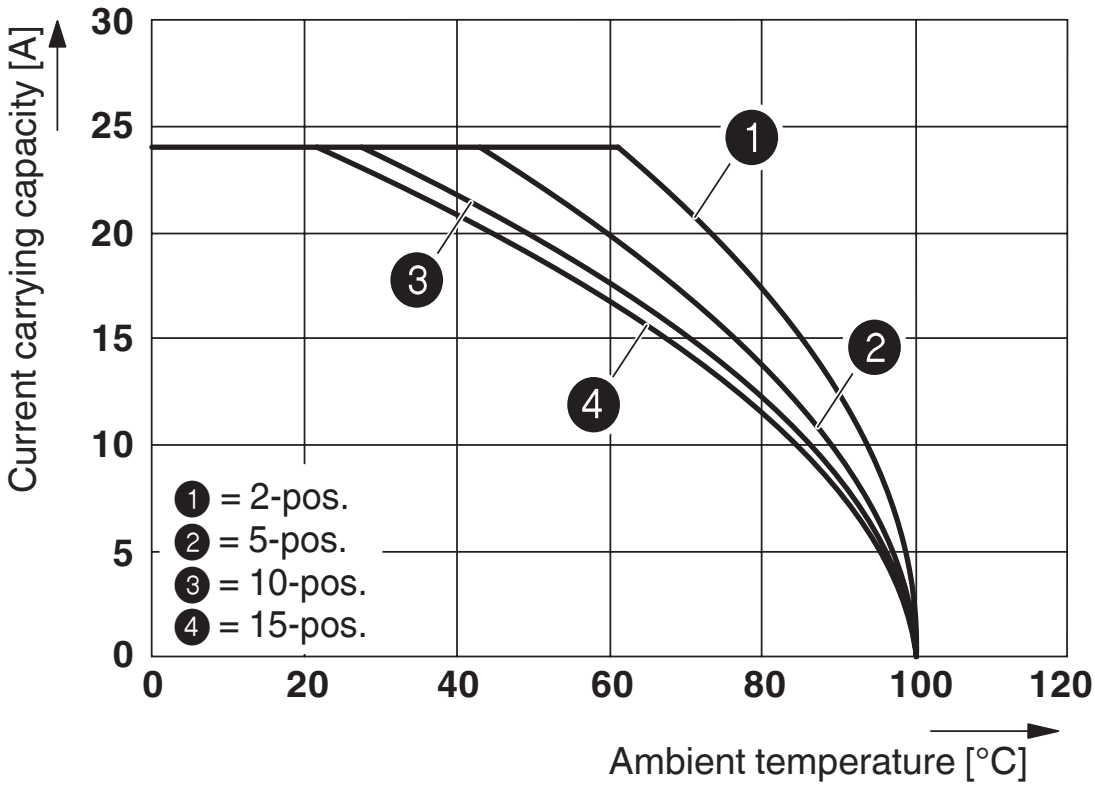
| | |
|---|---|
| Ambient temperature (operation) | -60 °C (max. operating temperature see derating curve) |
| Ambient temperature (storage/transport) | -25 °C ... 60 °C (for a short time, not exceeding 24 h, -60 °C to +70 °C) |
| Ambient temperature (assembly) | -5 °C ... 70 °C |
| Ambient temperature (actuation) | -5 °C ... 70 °C |
| Permissible humidity (operation) | 20 % ... 90 % |
| Permissible humidity (storage/transport) | 30 % ... 70 % |

## Standards and regulations

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

## Drawings

Diagram




The figure shows the derating curve of the UT 2,5/1P... terminal block in connection with the UPBV 2,5 plug

Circuit diagram



## Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/3045473

**cULus Recognized**
Approval ID: E60425

| | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
|---|---|---|---|---|
| B | | | | |
| | 600 V | 20 A | 26 - 12 | - |
| Multi-conductor connection | 600 V | 20 A | 26 - 16 | - |
| C | | | | |
| | 600 V | 20 A | 26 - 12 | - |
| Multi-conductor connection | 600 V | 20 A | 26 - 16 | - |
| D | | | | |
| | 600 V | 5 A | 26 - 12 | - |
| Multi-conductor connection | 600 V | 5 A | 26 - 16 | - |

**EAC**
Approval ID: KZ7500651131219505

## Classifications

### ECLASS

| | |
|---|---|
| ECLASS-13.0 | 27250306 |
| ECLASS-15.0 | 27250306 |

### ETIM

| | |
|---|---|
| ETIM 10.0 | EC002021 |

### UNSPSC

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

## Environmental product compliance

EU RoHS

| | |
|---|---|
| Fulfills EU RoHS substance requirements | Yes |
| Exemption | 6(c) |

China RoHS

| | |
|---|---|
| Environment friendly use period (EFUP) | EFUP-50 |
| | An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required. |

EU REACH SVHC

| | |
|---|---|
| REACH candidate substance (CAS No.) | Lead(CAS: 7439-92-1) |
| SCIP | f5de8ff9-6b62-4ed1-ab00-20e60bb25924 |

EF3.1 Climate Change

| | |
|---|---|
| CO2e kg | 0.287 kg CO2e |


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