# QP 1,5/ 1-M GNYE - Plug

3051069

https://www.phoenixcontact.com/us/products/3051069

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Plug, nom. voltage: 500 V, nominal current: 17.5 A, number of positions: 1, connection method: Quick connection, 1 level, Rated cross section: 1.5 $mm^2$, cross section: 0.25 $mm^2$- 1.5 $mm^2$, color: green-yellow

## Product description

Connector element center, left housing with engagement pin, right opened without cover

## Your advantages

- The QT-COMBI plugs for self-assembly provide solutions that users can implement themselves
- The conductor is connected using the familiar IDC connection with no stripping, therefore saving time
- Tested for railway applications
- The QP 1,5/... fast connector plug is designed for the connection of solid and stranded conductors

## Commercial data

| | |
|---|---|
| Item number | 3051069 |
| Packing unit | 50 pc |
| Minimum order quantity | 50 pc |
| Sales key | BE03 |
| Product key | BE3144 |
| GTIN | 4046356082914 |
| Weight per piece (including packing) | 4.158 g |
| Weight per piece (excluding packing) | 4.138 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 | 1 |
| Pitch | 5.2 mm |

Insulation characteristics

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

### Electrical properties

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

### Connection data

| | |
|---|---|
| Nominal cross section | 1.5 mm² |

1 level

| | |
|---|---|
| Connection method | Quick connection |
| Material wire insulation | PVC / PE |
| Connection in acc. with standard | IEC 61984 |
| Conductor cross-section rigid | 0.25 mm² ... 1.5 mm² |
| Cross section AWG | 24 ... 16 (converted acc. to IEC) |
| Conductor cross-section flexible | 0.25 mm² ... 1.5 mm² |
| Conductor cross-section, flexible [AWG] | 24 ... 16 (converted acc. to IEC) |
| Cross section, sensor conductors | 0.25 mm² ... 0.34 mm² |
| Nominal cross section | 1.5 mm² |
| Nominal current | 17.5 A |
| Maximum load current | 17.5 A (with 1.5 mm² conductor cross-section) |
| Nominal voltage | 500 V |

### Dimensions

| | |
|---|---|
| Width | 5.2 mm |
| Height | 20 mm |
| Depth | 40 mm |
| Length | 20 mm |
| Pitch | 5.2 mm |

### Material specifications

| | |
|---|---|
| Color | green-yellow |

| | |
|---|---|
| Flammability rating according to UL 94 | V0 |
| Insulating material group | I |
| Insulating material | PA |
| Static insulating material application in cold | -60 °C |
| Relative insulation material temperature index (Elec., UL 746 B) | 125 °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

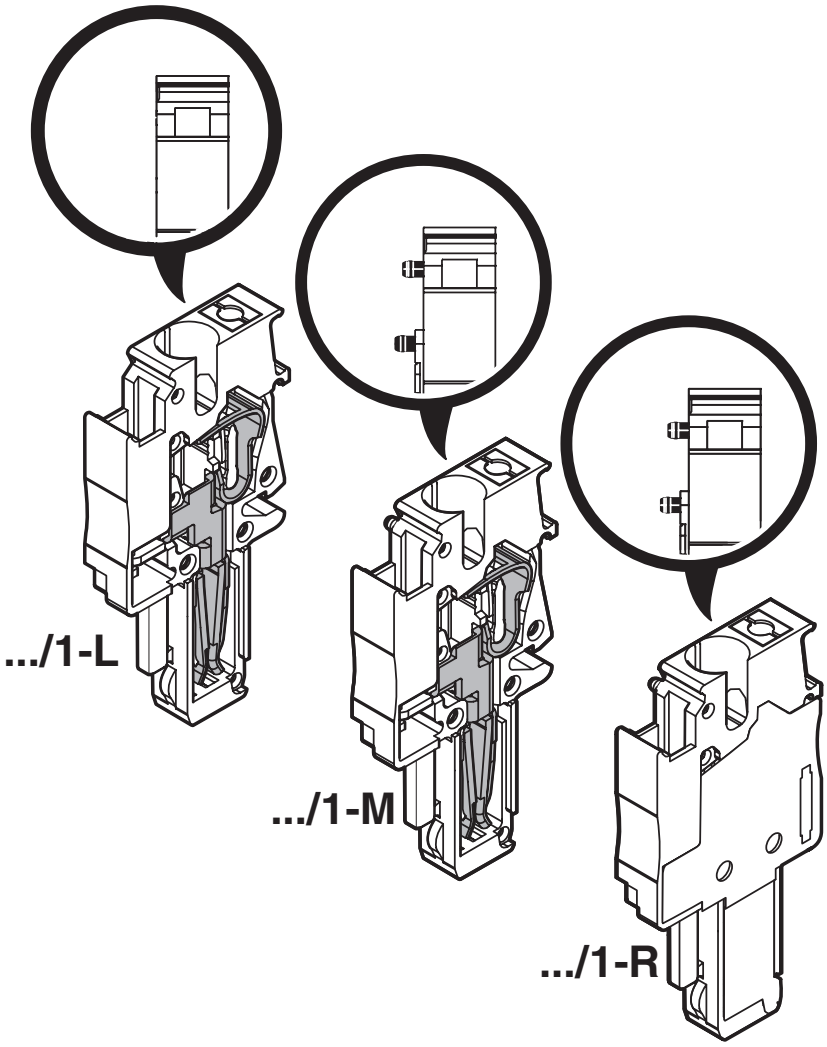
| | |
|---|---|
| Ambient temperature (operation) | -60 °C (max. operating temperature see derating curve) |
| Ambient temperature (storage/transport) | -25 °C ... 60 °C (for a short time, not exceeding 24 h, -60 °C to +70 °C) |
| Ambient temperature (assembly) | -5 °C ... 70 °C |
| Ambient temperature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

Schematic diagram



Circuit diagram



## Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/3051069

**CSA**
Approval ID: 158887

| | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
|---|---|---|---|---|
| B | | | | |
| | 300 V | 10 A | 24 - 16 | - |
| C | | | | |
| | 300 V | 10 A | 24 - 16 | - |
| D | | | | |
| | 600 V | 5 A | 24 - 16 | - |

**cULus Recognized**
Approval ID: E60425

| | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
|---|---|---|---|---|
| B | | | | |
| | 300 V | 10 A | 24 - 16 | - |
| C | | | | |
| | 300 V | 10 A | 24 - 16 | - |
| D | | | | |
| | 600 V | 5 A | 24 - 16 | - |

## 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, No exemptions |

China RoHS

| | |
|---|---|
| Environment friendly use period (EFUP) | EFUP-E |
| | No hazardous substances above the limits |

EU REACH SVHC

| | |
|---|---|
| REACH candidate substance (CAS No.) | No substance above 0.1 wt% |

EF3.1 Climate Change

| | |
|---|---|
| CO2e kg | 0.043 kg CO2e |


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