

# QP 1,5/ 1 GNYE - Plug

3051263

<https://www.phoenixcontact.com/us/products/3051263>



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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<sup>2</sup>, cross section: 0.25 mm<sup>2</sup>- 1.5 mm<sup>2</sup>, color: green-yellow

## Your advantages

- Just like the basic terminal blocks, the plugs also offer the right connection technology for every application
- The conductor is connected using the familiar IDC connection with no stripping, therefore saving time
- The QP 1,5/... fast connector plug is designed for the connection of solid and stranded conductors
- Tested for railway applications

## Commercial data

|                                      |                     |
|--------------------------------------|---------------------|
| Item number                          | 3051263             |
| Packing unit                         | 50 pc               |
| Minimum order quantity               | 50 pc               |
| Sales key                            | BE03                |
| Product key                          | BE3144              |
| Catalog page                         | Page 288 (C-1-2019) |
| GTIN                                 | 4046356113410       |
| Weight per piece (including packing) | 4.382 g             |
| Weight per piece (excluding packing) | 4.382 g             |
| Customs tariff number                | 85366990            |
| Country of origin                    | TR                  |

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## Technical data

### Product properties

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

### Data management status

|                  |    |
|------------------|----|
| Article revision | 05 |
|------------------|----|

### Insulation characteristics

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

### Electrical properties

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

### Connection data

|                       |                     |
|-----------------------|---------------------|
| Nominal cross section | 1.5 mm <sup>2</sup> |
|-----------------------|---------------------|

#### 1 level

|                                         |                                                           |
|-----------------------------------------|-----------------------------------------------------------|
| Material wire insulation                | PVC / PE                                                  |
| Connection in acc. with standard        | IEC 61984                                                 |
| Conductor cross section rigid           | 0.25 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>              |
| Cross section AWG                       | 24 ... 16 (converted acc. to IEC)                         |
| Conductor cross section flexible        | 0.25 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>              |
| Conductor cross section, flexible [AWG] | 24 ... 16 (converted acc. to IEC)                         |
| Cross section, sensor conductors        | 0.25 mm <sup>2</sup> ... 0.34 mm <sup>2</sup>             |
| Nominal current                         | 17.5 A                                                    |
| Maximum load current                    | 17.5 A (with 1.5 mm <sup>2</sup> conductor cross section) |
| Nominal voltage                         | 500 V                                                     |
| Nominal cross section                   | 1.5 mm <sup>2</sup>                                       |

### 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           |

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|                                                                         |             |
|-------------------------------------------------------------------------|-------------|
| 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)        | 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, no longer than 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 |
|----------------------------------|-----------|

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## Drawings

### Circuit diagram



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## Approvals

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| CSA<br>Approval ID: 2030668 |                       |                       |                   |                             |
|-----------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
|                             | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| Use group B                 | 300 V                 | 10 A                  | 24 - 16           | -                           |
| Use group C                 | 300 V                 | 10 A                  | 24 - 16           | -                           |
| Use group D                 | 600 V                 | 5 A                   | 24 - 16           | -                           |

| EAC<br>Approval ID: RU C-DE.BL08.B.00511 |  |  |  |  |
|------------------------------------------|--|--|--|--|
|------------------------------------------|--|--|--|--|

| cULus Recognized<br>Approval ID: E60425 |                       |                       |                   |                             |
|-----------------------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
|                                         | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| Use group B                             | 300 V                 | 10 A                  | 24 - 16           | -                           |
| Use group C                             | 300 V                 | 10 A                  | 24 - 16           | -                           |
| Use group D                             | 600 V                 | 5 A                   | 24 - 16           | -                           |

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-11.0 | 27141151 |
| ECLASS-12.0 | 27141151 |
| ECLASS-13.0 | 27250306 |

### ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | EC002021 |
|----------|----------|

### UNSPSC

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

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## 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%               |

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