# QPD P 4PE6,0 9-14 TL BK - Connector

1039564

https://www.phoenixcontact.com/us/products/1039564

**PHŒNIX CONTACT**

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Connector, IDC connection, number of positions: 4+PE, 2.5 mm$^2$ ... 6 mm$^2$, 690 V, 40 A, black, with QUICKON nut, external cable diameter: 9 mm ... 14 mm

## Your advantages

- Innovative and time saving - QUICKON fast connection for time saving of up to 80 % for on-site connection
- Robust throughout: housing with IP68/IP69K and IK07 protection for a wide range of applications
- Safer connection with mechanical coding to protect against mismatching, and touch-proof protection in accordance with DIN EN 0105
- Easy maintenance – the connectors enable fast device replacement and preassembled cables simplify startup

## Commercial data

| | |
|---|---|
| Item number | 1039564 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | BF50 |
| Product key | BF6BCC |
| Catalog page | Page 493 (C-2-2019) |
| GTIN | 4055626597102 |
| Weight per piece (including packing) | 103.5 g |
| Weight per piece (excluding packing) | 22.22 g |
| Customs tariff number | 85366990 |
| Country of origin | PL |

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## Technical data

### Product properties

| | |
|---|---|
| Type | QPD 5x6,0 |
| Product type | Installation connector |
| Product family | QPD |
| Number of positions | 5 |
| Connection profile | 4+PE |
| Position marking | 1, 2, 3, N, PE |
| Number of connections per position | 1 |
| Series | QPD |

#### Insulation characteristics

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

### Electrical properties

| | |
|---|---|
| Rated surge voltage (II/2) | 8 kV |
| Rated surge voltage (III/2) | 8 kV |
| Rated surge voltage (III/3) | 6 kV |
| Rated current | 40 A |
| Contact resistance | < 4 m$\Omega$ |
| Rated voltage (III/3) | 690 V |
| Nominal voltage $U_N$ | 690 V |
| Nominal current $I_N$ | 40 A |

### Connection data

#### Connection technology

| | |
|---|---|
| Connection technology | IDC connection |
| Connection system, internal | IDC connection |
| Frequency of connections between conductors of the same cross section | max. 10 |

#### Conductor connection

| | |
|---|---|
| Conductor cross section flexibel | 2.5 mm² ... 6 mm² |
| Conductor cross section solid | 2.5 mm² ... 6 mm² |
| Connection cross section AWG | 14 ... 10 |
| Tightening torque, union nut | 15 Nm |

### Dimensions

| | |
|---|---|
| Width | 39.6 mm |
| Height | 44.1 mm |
| Length | 97.5 mm |
| Diameter | 44.1 mm |

## Material specifications

| Material | PA |
|---|---|
| Flammability rating according to UL 94 | V0 |
| Contact material | Cu |
| Contact surface material | silver-plated |
| Contact carrier material | PA |

## Cable/line

| Structure of individual litz in acc. with VDE 0295 / smallest wire diameter | VDE 0295 class 1 to 6/min. 0.15 mm |
|---|---|
| External cable diameter () | 9 mm ... 14 mm |
| Wire diameter including insulation | 2.95 mm ... 5 mm |
| Position marking | 1, 2, 3, N, PE |
| Material wire insulation | PVC/PE/TPE/rubber |

## Mechanical properties

### Mechanical data

| Insertion/withdrawal cycles | max. 50 |
|---|---|

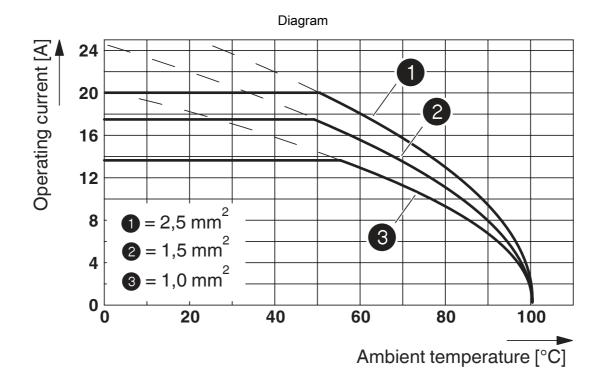## Environmental and real-life conditions

### Ambient conditions

| Degree of protection | IP66 |
|---|---|
| | IP68 (2 m / 24 h) |
| | IP69K |
| Ambient temperature (operation) | -40 °C ... 100 °C |
| Temperature when conductor connected | -5 °C ... 50 °C |
| Ambient temperature (storage/transport) | -40 °C ... 100 °C |

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## Drawings

Diagram



Legend:
- ① = 2,5 mm²
- ② = 1,5 mm²
- ③ = 1,0 mm²

X-axis: Ambient temperature [°C]
Y-axis: Operating current [A]

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## Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1039564

**IECEE CB Scheme**
Approval ID: DE1-65875

**EAC**
Approval ID: RU C-DE.BL08.B.00511

**VDE Zeichengenehmigung**
Approval ID: 40029149

**UL Listed**
Approval ID: E468743

|  | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
|---|---|---|---|---|
|  | 600 V | 20 A | - | - 12 |

**cUL Listed**
Approval ID: E468743

|  | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
|---|---|---|---|---|
|  | 600 V | 20 A | - 12 | - |

**cULus Listed**

## Classifications

### ECLASS

| ECLASS-11.0 | 27440605 |
| --- | --- |
| ECLASS-12.0 | 27440605 |
| ECLASS-13.0 | 27440605 |

### ETIM

| ETIM 8.0 | EC002560 |
| --- | --- |

### UNSPSC

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

## Environmental product compliance

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

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## Mandatory accessories

### QPD W 4PE6,0 9-14 M25 0,5 BK - Panel feed-through

1410392

https://www.phoenixcontact.com/us/products/1410392

QUICKON panel feed-through, 4+PE-pos., 2.5 mm$^2$ ... 6.0 mm$^2$/690 V/40 A, with QUICKON nut, black, for cable diameter of 9 mm ... 14 mm, M25 connection thread with 5 welded-on 6.0 mm$^2$ cable wires, 0.5 m long, cut flat at the end.

### QPD W 4PE6,0 9-14 M25 1,0 BK - Panel feed-through

1410393

https://www.phoenixcontact.com/us/products/1410393

QUICKON panel feed-through, 4+PE-pos., 2.5 mm$^2$ ... 6.0 mm$^2$/690 V/40 A, with QUICKON nut, black, for cable diameter of 9 mm ... 14 mm, M25 connection thread with 5 welded-on 6.0 mm$^2$ cable wires, 1.0 m long, cut flat at the end.

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## QPD C 4PE6,0 1X9-14 BK - Conductor connectors

1410415

https://www.phoenixcontact.com/us/products/1410415



QUICKON cable connector, with a QUICKON nut, black, 4+PE-pos., 2.5 mm$^2$ ... 6.0 mm$^2$/690 V/40 A, for cable diameter of 9 mm ... 14 mm.

## QPD C 4PE6,0 2X9-14 BK - Conductor connectors

1410410

https://www.phoenixcontact.com/us/products/1410410



QUICKON cable connector, black, 4+PE-pos., 2.5 mm$^2$ ... 6.0 mm$^2$/690 V/40 A, for cable diameter of 9 mm ... 14 mm.

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## QPD T 4PE6,0 2X9-14 BK - T distributor

1411416

https://www.phoenixcontact.com/us/products/1411416

QUICKON T-distributor, black, 4+PE-pos., 2.5 mm$^2$ ... 6.0 mm$^2$/690 V/40 A, for cable diameter of 9 mm ... 14 mm, with two QUICKON nuts

## QPD T 4PE6,0 3X9-14 BK - T distributor

1411414

https://www.phoenixcontact.com/us/products/1411414

QUICKON T-distributor, black, 4+PE-pos., 2.5 mm$^2$ ... 6.0 mm$^2$/690 V/40 A, for cable diameter of 9 mm ... 14 mm, with three QUICKON nuts

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## QPD H 4PE6,0 4X9-14 BK - H distributor

1411422

https://www.phoenixcontact.com/us/products/1411422

QUICKON H-distributor, black, 4+PE-pos., 2.5 mm$^2$ ... 6.0 mm$^2$/690 V/40 A, for cable diameter of 9 mm ... 14 mm, with a sealing bolt.

## QPD W 4PE6,0 M25 0,5 BK - Panel feed-through

1410396

https://www.phoenixcontact.com/us/products/1410396

QUICKON panel feed-through, 4+PE-pos., 2.5 mm$^2$ ... 6.0 mm$^2$/690 V/40 A, without QUICKON nut, black, M25 connection thread with 5 welded-on 6.0 mm$^2$ cable wires, 0.5 m long, cut flat at the end.

# QPD P 4PE6,0 9-14 TL BK - Connector

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## QPD W 4PE6,0 M25 1,0 BK - Panel feed-through

1410397

https://www.phoenixcontact.com/us/products/1410397

QUICKON panel feed-through, 4+PE-pos., 2.5 mm$^2$ ... 6.0 mm$^2$/690 V/40 A, without QUICKON nut, black, M25 connection thread with 5 welded-on 6.0 mm$^2$ cable wires, 1.0 m long, cut flat at the end.

## QPD H 4PE6,0 BK - H distributor

1411426

https://www.phoenixcontact.com/us/products/1411426

QUICKON H-distributor, black, 4+PE-pos., 2.5 mm$^2$ ... 6.0 mm$^2$/690 V/40 A, without QUICKON nut.

## Accessories

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## CP-QPD 5X6,0 - Coding profile

1411402

https://www.phoenixcontact.com/us/products/1411402

Coding profile, red, for insertion into the 5-pos. QUICKON dome and connector, can be positioned in 72° increments.

## QPD QSK 5X6,0 - Protective cap

1411403

https://www.phoenixcontact.com/us/products/1411403

Protective cap, black plastic, for 5 x 2.5 mm$^2$ QPD connector, IP50.

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## QPD PSK 5X6,0 - Protective cap

1411404

https://www.phoenixcontact.com/us/products/1411404

Protective cap, transparent plastic, for 5x 6.0 mm$^2$ QPD QUICKON connection, IP50.

## SEALING PLUG 10X16 RD - Closing cap

1400284

https://www.phoenixcontact.com/us/products/1400284

Closing cap, for threads pluggable, color: red

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## QPD P 4PE6,0 9-14 BK - Connector

1410386

https://www.phoenixcontact.com/us/products/1410386



Connector, QUICKON connection, number of positions: 4+PE, 2.5 mm$^2$ ... 6 mm$^2$, 690 V, 40 A, black, with QUICKON nut, external cable diameter: 9 mm ... 14 mm

## QPD N 4PE6,0 9-14 BK - Nut

1410409

https://www.phoenixcontact.com/us/products/1410409



QUICKON nut, black, 4+PE-pos., 2.5 mm$^2$ ... 6.0 mm$^2$/690 V/40 A, for cables with a diameter of 9 mm ... 14 mm.