

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



1410388

<https://www.phoenixcontact.com/us/products/1410388>

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



Connector, product family: QPD, connection method: IDC connection, number of positions: 4+PE, 2.5 mm<sup>2</sup> ... 6 mm<sup>2</sup>, 690 V, 40 A, PA, black

## 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                          | 1410388                        |
| Packing unit                         | 1 pc                           |
| Minimum order quantity               | 1 pc                           |
| Note                                 | Made to order (non-returnable) |
| Sales key                            | BF50                           |
| Product key                          | BF6BCC                         |
| GTIN                                 | 4046356929615                  |
| Weight per piece (including packing) | 110.4 g                        |
| Weight per piece (excluding packing) | 110.4 g                        |
| Customs tariff number                | 85366990                       |
| Country of origin                    | PL                             |

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

1410388

<https://www.phoenixcontact.com/us/products/1410388>



## Technical data

### Product properties

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

### 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 mΩ |
| rated voltage (II/2)        | 1000 V |
| rated voltage (III/2)       | 1000 V |
| Rated voltage (III/3)       | 690 V  |
| Nominal current $I_N$       | 40 A   |

### Connection data

#### Connection technology

|   |                |
|---|----------------|
| Connection method On the field side                                   | IDC connection |
| Frequency of connections between conductors of the same cross section | max. 10        |

#### Conductor connection

|                                  |   |
|----------------------------------|---|
| Conductor cross section flexibel | 2.5 mm <sup>2</sup> ... 6 mm <sup>2</sup> |
| Conductor cross section solid    | 2.5 mm <sup>2</sup> ... 6 mm <sup>2</sup> |
| Connection cross section AWG     | 14 ... 10                                 |
| Tightening torque Union nut      | 15 Nm                                     |

### Material specifications

|  |                   |
|--|-------------------|
| Material Housing                       | PA                |
| Material Contact                       | Cu                |
| Material Contact surface               | silver-plated     |
| Flammability rating according to UL 94 | V0                |
| Material wire insulation               | PVC/PE/TPE/rubber |

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



1410388

<https://www.phoenixcontact.com/us/products/1410388>

## Cable/line

|   |                                    |
|---|------------------------------------|
| Structure of individual litz in acc. with VDE 0295 / smallest wire diameter | VDE 0295 class 1 to 6/min. 0.15 mm |
| Wire diameter including insulation  | 2.95 mm ... 5 mm                   |
| Position marking  | 1, 2, L, 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             |
| Impact strength                         | IK07              |
| Ambient temperature (operation)         | -40 °C ... 100 °C |
| Temperature when conductor connected    | -5 °C ... 50 °C   |
| Ambient temperature (storage/transport) | -40 °C ... 80 °C  |

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

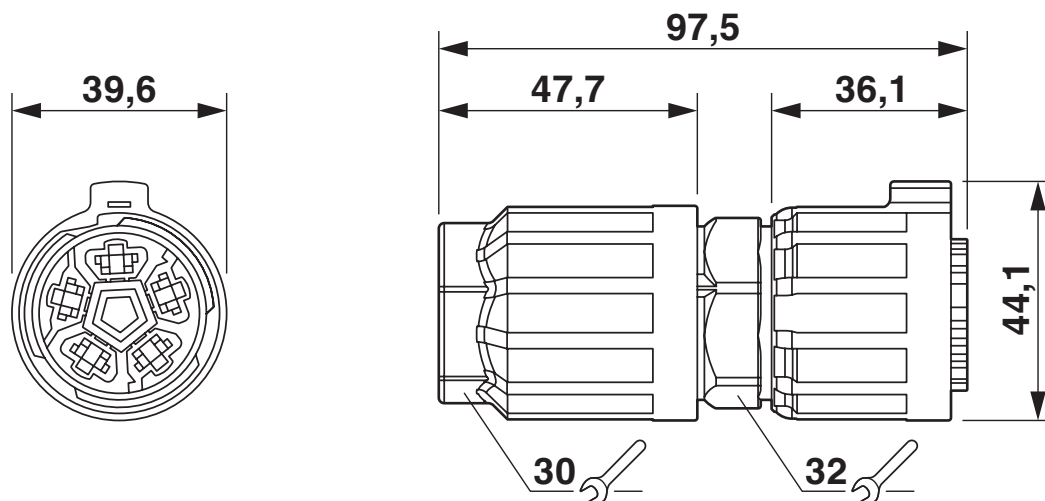
1410388

<https://www.phoenixcontact.com/us/products/1410388>

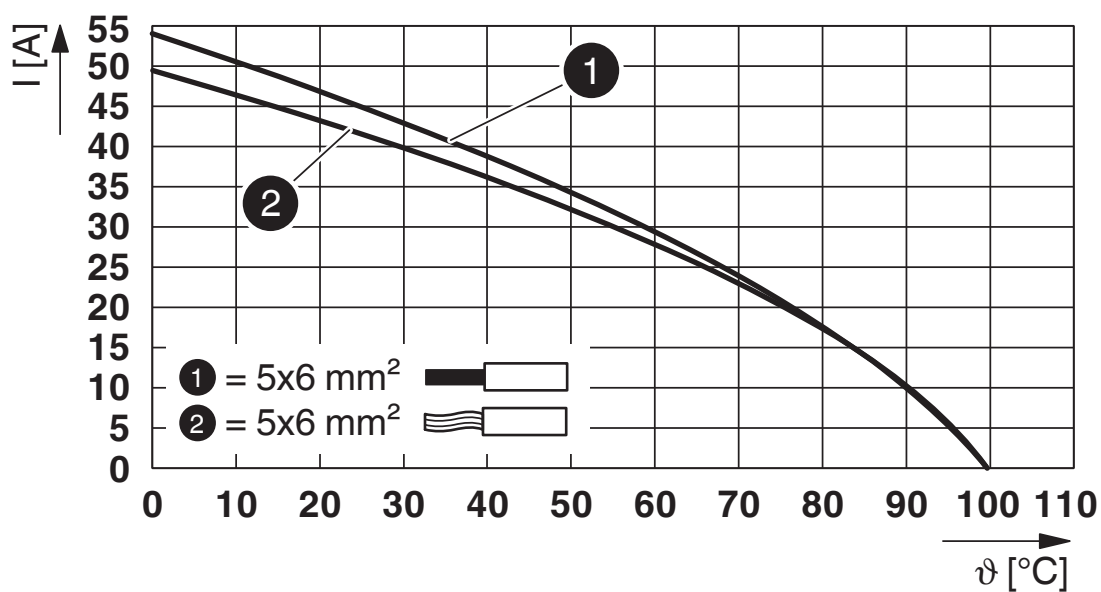


## Drawings

Dimensional drawing



Diagram



Derating diagram

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



1410388

<https://www.phoenixcontact.com/us/products/1410388>

## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1410388>




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




**DNV GL**  
Approval ID: TAE00003J5



**VDE Zeichengenehmigung**  
Approval ID: 40029149

|   |  |                       |                   |                             |
|---|--|-----------------------|-------------------|-----------------------------|
|  | <b>UL Listed</b><br>Approval ID: E468743 |                       |                   |                             |
|   | Nominal voltage $U_N$                    | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
|   | 600 V                                    | 20 A                  | -                 | - 12                        |

|   |   |                       |                   |                             |
|---|---|-----------------------|-------------------|-----------------------------|
|  | <b>cUL Listed</b><br>Approval ID: E468743 |                       |                   |                             |
|   | Nominal voltage $U_N$                     | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
|   | 600 V                                     | 20 A                  | - 12              | -                           |

**cULus Listed**

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



1410388

<https://www.phoenixcontact.com/us/products/1410388>

## Classifications

### ECLASS

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

### ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | EC002560 |
|----------|----------|

### UNSPSC

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

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

1410388

<https://www.phoenixcontact.com/us/products/1410388>



## Accessories

### 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, product family: QPD, black, For QPD Quickon connection 5 x 6. 00 mm<sup>2</sup>

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

1410388

<https://www.phoenixcontact.com/us/products/1410388>



## QPD PSK 5X6,0 - Protective cap

1411404

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



Protective cap, transparent plastic, for 5x 6.0 mm<sup>2</sup> QPD QUICKON connection, IP50.

---

## SEALING PLUG 10X16 RD - Sealing plug

1400284

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



Sealing plug, for threads pluggable, color: red

---

Phoenix Contact 2024 © - all rights reserved  
<https://www.phoenixcontact.com>

Phoenix Contact USA  
586 Fulling Mill Road  
Middletown, PA 17057, United States  
(+717) 944-1300  
[info@phoenixcon.com](mailto:info@phoenixcon.com)