

# QPD P 4PE2,5 6-11 GY - Connector

1403783

<https://www.phoenixcontact.com/us/products/1403783>



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Connector, product family: QPD, connection method: IDC connection, number of positions: 4+PE, 1 mm<sup>2</sup> ... 2.5 mm<sup>2</sup>, 690 V, 20 A, PA, gray, external cable diameter: 6 mm ... 11 mm

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1403783       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Sales key                            | BF50          |
| Product key                          | BF6BCB        |
| GTIN                                 | 4046356667142 |
| Weight per piece (including packing) | 74.8 g        |
| Weight per piece (excluding packing) | 74.8 g        |
| Customs tariff number                | 85366990      |
| Country of origin                    | PL            |

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## Technical data

### Product properties

|                                    |                        |
|------------------------------------|------------------------|
| Product type                       | Installation connector |
| Product family                     | QPD                    |
| Type                               | QPD 5x2,5              |
| Number of positions                | 5                      |
| Connection profile                 | 4+PE                   |
| Position marking                   | 1, 2, L, N, PE         |
| Number of connections              | 5                      |
| Number of connections per position | 1                      |

### Data management status

|                  |    |
|------------------|----|
| Article revision | 03 |
|------------------|----|

### 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               | 20 A     |
| Contact resistance          | < 4 mΩ   |
| rated voltage (II/2)        | 1000 V   |
| rated voltage (III/2)       | 1000 V   |
| Rated voltage (III/3)       | 690 V    |
| Nominal voltage $U_N$       | 690 V AC |
|                             | 690 V DC |
| Nominal current $I_N$       | 20 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 | 1 mm² ... 2.5 mm² |
| Conductor cross section solid    | 1 mm² ... 1.5 mm² |
| Connection cross section AWG     | 16 ... 14         |
| Tightening torque Union nut      | 10 Nm             |

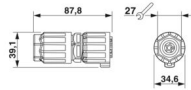
### Dimensions

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|                     |                                                                                    |
|---------------------|------------------------------------------------------------------------------------|
| Dimensional drawing |  |
| Width               | 34.6 mm                                                                            |
| Height              | 39.1 mm                                                                            |
| Length              | 87.8 mm                                                                            |
| Diameter            | 39.1 mm                                                                            |

## Material specifications

|                                        |                       |
|----------------------------------------|-----------------------|
| Color                                  | light gray (RAL 7035) |
| Material Housing                       | PA                    |
| Material Contact                       | Cu                    |
| Material Contact surface               | silver-plated         |
| Flammability rating according to UL 94 | V0                    |
| Material wire insulation               | PVC / PE              |

## 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                                                     | 6 mm ... 11 mm                     |
| Wire diameter including insulation                                          | 2 mm ... 3.8 mm                    |
| Position marking                                                            | 1, 2, L, N, PE                     |
| Material wire insulation                                                    | PVC / PE                           |

## Mechanical properties

### Mechanical data

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

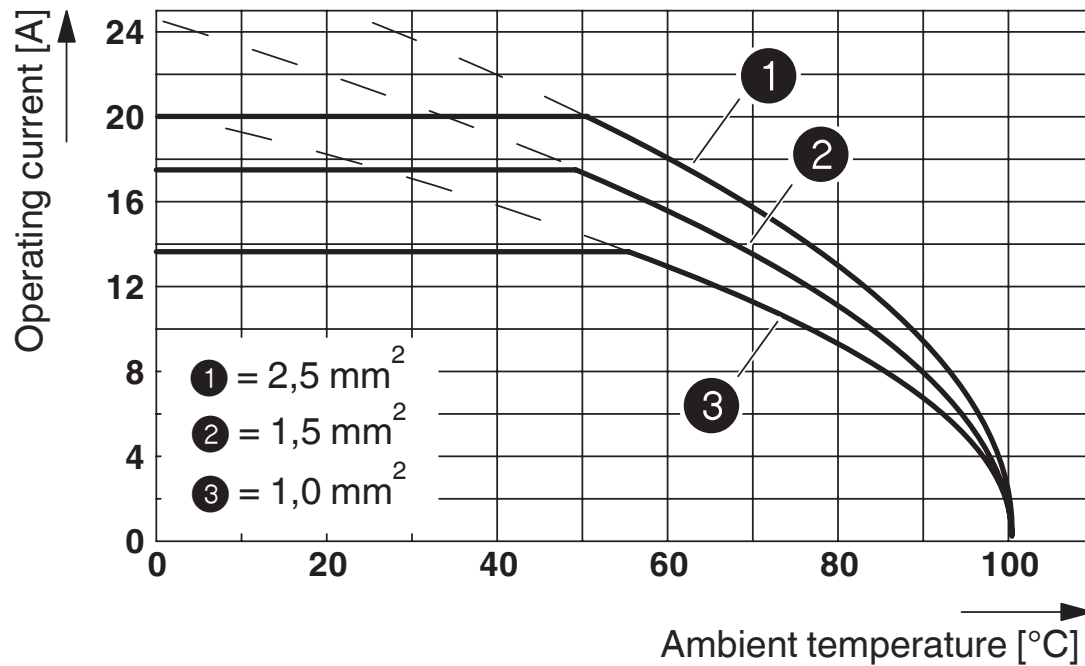
## Environmental and real-life conditions

### Ambient conditions

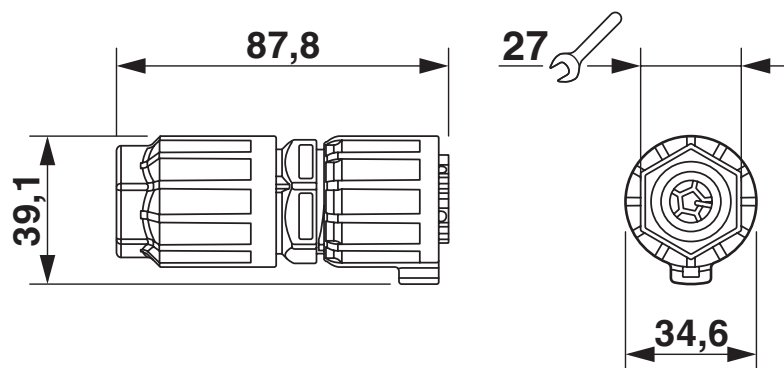
|                                         |                                        |
|-----------------------------------------|----------------------------------------|
| Degree of protection                    | IP66                                   |
|                                         | IP68 (2 m / 24 h)                      |
|                                         | IP69K                                  |
|                                         | Touch-proof when not plugged in (IP2X) |
| 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                       |

## Drawings

Diagram



Dimensional drawing



Dimensional drawing: connector, 2.5 mm<sup>2</sup>

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1403783>



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



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



**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                                    | 10 A                  | -                 | - 14                        |

|                                                                                     |                                           |                       |                   |                             |
|-------------------------------------------------------------------------------------|-------------------------------------------|-----------------------|-------------------|-----------------------------|
|  | <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                                     | 10 A                  | - 14              | -                           |

**cULus Listed**

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## Classifications

### ECLASS

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

### ETIM

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

### 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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