

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



1403783

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

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, 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            |

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



1403783

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

## Technical data

### Product properties

|                                    |                        |
|------------------------------------|------------------------|
| Type                               | QPD 5x2,5              |
| Product type                       | Installation connector |
| Product family                     | QPD                    |
| 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                      |

### 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<br>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

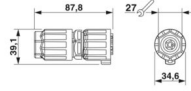
|                                  |   |
|----------------------------------|---|
| Conductor cross section flexibel | 1 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> |
| Conductor cross section solid    | 1 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> |
| Connection cross section AWG     | 16 ... 14                                 |
| Tightening torque Union nut      | 10 Nm                                     |

### Dimensions

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

1403783

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

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

## Material specifications

|  |                       |
|--|-----------------------|
| Color                                  | light grey (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<br>IP68 (2 m / 24 h)<br>IP69K |
| 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 4PE2,5 6-11 GY - Connector



1403783

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

## Classifications

### ECLASS

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

### ETIM

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

### UNSPSC

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

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



1403783

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

## Environmental product compliance

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

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)