

# QPD C 3PE1,5 2X8-13 BK - Conductor connectors



1414698

<https://www.phoenixcontact.com/us/products/1414698>

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Conductor connectors, product family: QPD, connection method: IDC connection, number of positions: 3+PE, 0.5 mm<sup>2</sup> ... 1.5 mm<sup>2</sup>, 690 V, 17.5 A, PA, black, With two QUICKON nuts, external cable diameter: 10 mm ... 13 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 and safe - with the cable connector, you can repair or extend cables quickly, in combination with the connector as well as the coupling connection

## Commercial data

|                                      |                     |
|--------------------------------------|---------------------|
| Item number                          | 1414698             |
| Packing unit                         | 1 pc                |
| Minimum order quantity               | 1 pc                |
| Sales key                            | BF50                |
| Product key                          | BF6CBA              |
| Catalog page                         | Page 475 (C-2-2019) |
| GTIN                                 | 4055626031606       |
| Weight per piece (including packing) | 43.7 g              |
| Weight per piece (excluding packing) | 41.507 g            |
| Customs tariff number                | 85366990            |
| Country of origin                    | PL                  |

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## Technical data

### Product properties

|                                    |                 |
|------------------------------------|-----------------|
| Type                               | QPD 4x1,5       |
| Product type                       | Cable connector |
| Product family                     | QPD             |
| Number of positions                | 4               |
| Connection profile                 | 3+PE            |
| Position marking                   | 1, 2, 3, PE     |
| Number of connections per position | 1               |
| Coding                             | Coding profile  |

### Insulation characteristics

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

### Dimensions

|                     |         |
|---------------------|---------|
| Dimensional drawing |         |
| Width               | 25 mm   |
| Height              | 25 mm   |
| Length              | 89.4 mm |
| Diameter            | 25 mm   |

### Connection data

#### Connection technology

|   |         |
|---|---------|
| Frequency of connections between conductors of the same cross section | max. 10 |
|---|---------|

#### Conductor connection

|                               |      |
|-------------------------------|------|
| Tightening torque             | 8 Nm |
|                               | 5 Nm |
| Tightening torque Union nut   | 8 Nm |
| Tightening torque Locking nut | 5 Nm |

### 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               | 17.5 A |
| Contact resistance          | < 3 mΩ |
| rated voltage (II/2)        | 1000 V |

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|                       |          |
|-----------------------|----------|
| rated voltage (III/2) | 1000 V   |
| Rated voltage (III/3) | 690 V    |
| Nominal voltage $U_N$ | 690 V AC |
|                       | 690 V DC |
| Nominal current $I_N$ | 17.5 A   |

## Mechanical properties

### Mechanical data

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

## Material specifications

|  |                         |
|--|-------------------------|
| Color                                  | black (RAL 9005)        |
| Material Housing                       | PA                      |
| Material Contact                       | Cu                      |
| Material Contact surface               | Silver-plated           |
| Flammability rating according to UL 94 | V0                      |
| Material wire insulation               | PVC / PE / rubber / TPE |

## 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 ( )   | 10 mm ... 13 mm                    |
| Wire diameter including insulation  | 1.6 mm ... 3 mm                    |
| Position marking  | 1, 2, 3, PE                        |
| Halogen-free  | yes                                |

## 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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## 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

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

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