# QPD C 3PE2,5 2X6-10 BK - Conductor connector

1582211

https://www.phoenixcontact.com/us/products/1582211

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Conductor connector, connection method: IDC connection, number of positions: 3+PE, 1 $mm^2$ ... 2.5 $mm^2$, 690 V, 20 A, PA, black, With two QUICKON nuts, coding: Coding profile, external cable diameter: 6 mm ... 10 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 | 1582211 |
| Packing unit | 1 pc |
| Sales key | BF50 |
| Product key | AF6CBB |
| GTIN | 4046356316941 |
| Weight per piece (including packing) | 65.5 g |
| Weight per piece (excluding packing) | 64 g |
| Customs tariff number | 85366990 |
| Country of origin | DE |

## Technical data

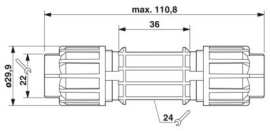
### Product properties

| | |
|---|---|
| Product type | Cable connector |
| Product family | QPD |
| Type | QPD 4x2,5 |
| 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 | 29.9 mm |
| Height | 29.9 mm |
| Length | 110.8 mm |
| Diameter | 29.9 mm |
| Wrench size | 22 mm |
| Wrench size for mounting | 22 mm |

### Connection data

Connection technology

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

Conductor connection

| | |
|---|---|
| Tightening torque | 10 Nm |
| | 5 Nm |
| Tightening torque Union nut | 10 Nm |
| Tightening torque Locking nut | 5 Nm |
| Wrench size Union nut | 22 mm |

### 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 | < 3 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 |
| Nominal current $I_N$ | 20 A |

## Mechanical properties

Mechanical data

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

## Material specifications

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

## 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 ... 10 mm |
| Wire diameter including insulation | 2 mm ... 3.8 mm |
| Position marking | 1, 2, 3, PE |
| Material wire insulation | PVC/PE/TPE/rubber |
| Halogen-free | no |

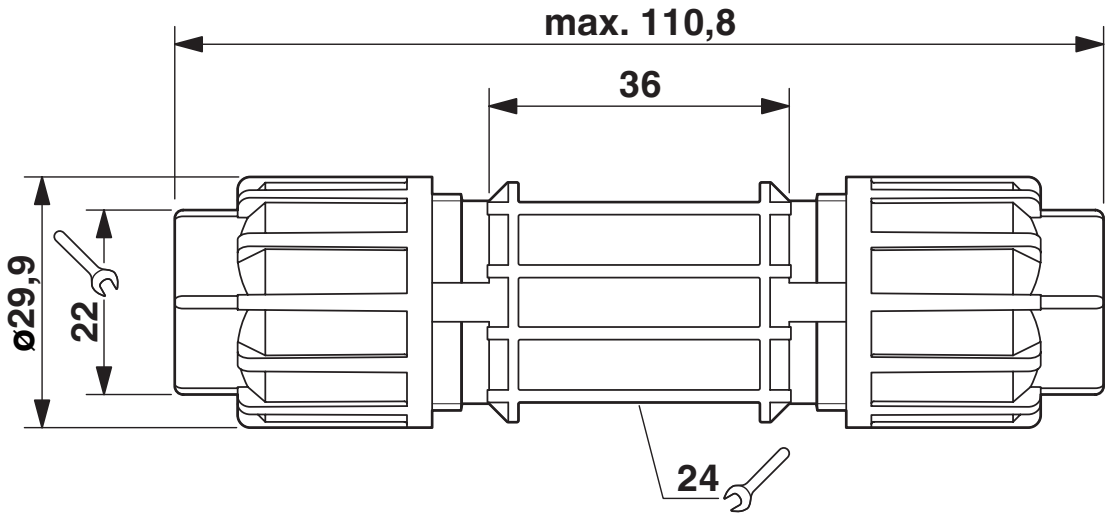
## Environmental and real-life conditions

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 ... 100 °C |

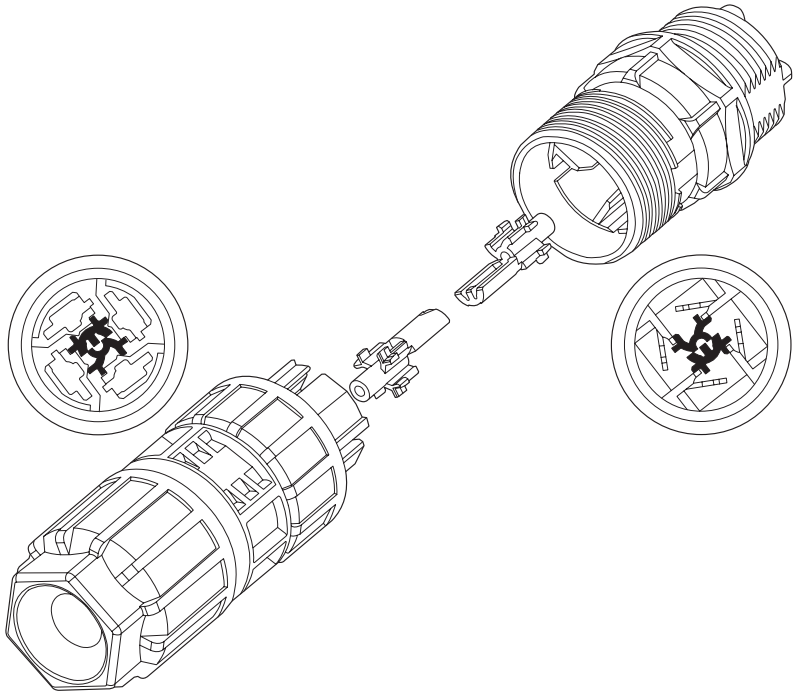
## Drawings

Dimensional drawing



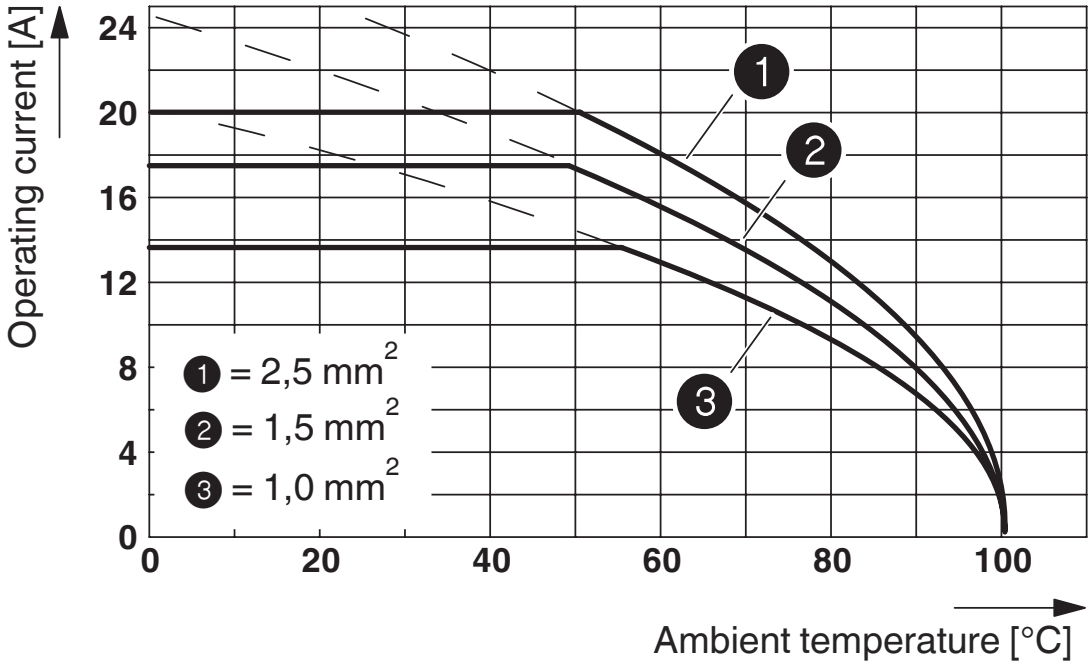

Dimensional drawing

Schematic diagram



Encoding of the QUICKON connector

Diagram


Operating current [A]
24
20
16
12
8
4
0
0
20
40
60
80
100
Ambient temperature [°C]
1
2
3
1 = 2,5 mm²
2 = 1,5 mm²
3 = 1,0 mm²

## Classifications

### ECLASS

| | |
|---|---|
| ECLASS-13.0 | 27440605 |
| ECLASS-15.0 | 27440605 |

### ETIM

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

### UNSPSC

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

## 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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