

## Conductor connectors - QPD CW 4PE2,5 2X9-16 BK - 1403841

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's documentation. Our General Terms of Use for Downloads are valid (<http://phoenixcontact.com/download>)



Cable connector panel feed-through, two-sided with QPD nut, black, 4+PE-pos., 1.0 mm<sup>2</sup> ... 2.5 mm<sup>2</sup>/690 V/20 A, for cable diameter of 9 mm ... 16 mm.

### Why buy this product

- ✓ Innovative and time saving - QUICKON fast connection for time saving of up to 80 % for on-site connection
- ✓ Convenient: quick and easy assembly without special tools
- ✓ Robust throughout: housing with IP68/IP69K and IK07 protection for a wide range of applications
- ✓ Safer connection thanks to polarization against mismatching and touch-proof protection according to 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

RoHS

### Key Commercial Data

|              |                                                                                                         |
|--------------|---------------------------------------------------------------------------------------------------------|
| Packing unit | 1 STK                                                                                                   |
| GTIN         | <br>4 046356 670371 |
| GTIN         | 4046356670371                                                                                           |

### Technical data

#### General

|                                       |                    |
|---------------------------------------|--------------------|
| Type                                  | QPD 5x2,5          |
| Color                                 | black              |
| Locking type                          | Screw locking      |
| Connection method                     | QUICKON connection |
|                                       | IDC connection     |
| Number of positions                   | 5                  |
| Note number of positions              | 4+PE               |
| Wrench size, union nut                | 27 mm              |
| Tightening torque, union nut          | 10 Nm              |
| Tightening torque, counter nut        | 5 Nm               |
| Conductor cross section flexible min. | 1 mm <sup>2</sup>  |

# Conductor connectors - QPD CW 4PE2,5 2X9-16 BK - 1403841

## Technical data

### General

|                                       |                     |
|---------------------------------------|---------------------|
| Conductor cross section flexible max. | 2.5 mm <sup>2</sup> |
| Conductor cross section solid min.    | 1 mm <sup>2</sup>   |
| Conductor cross section solid max.    | 2.5 mm <sup>2</sup> |
| Conductor cross section AWG min.      | 16                  |
| Conductor cross section AWG max.      | 14                  |

### Cabel

|                                                                             |                                    |
|-----------------------------------------------------------------------------|------------------------------------|
| Structure of individual litz in acc. with VDE 0295 / smallest wire diameter | VDE 0295 class 1 to 6/min. 0.15 mm |
| Wire insulation material                                                    | PVC/PE/TPE/rubber                  |
| Wire diameter including insulation                                          | 2 mm ... 3.8 mm                    |
| External cable diameter                                                     | 9 mm ... 16 mm                     |
| Position marking                                                            | 1, 2, 3, N, PE                     |

### Ambient conditions

|                                         |                   |
|-----------------------------------------|-------------------|
| Degree of protection                    | IP66              |
|                                         | IP68 (2 m / 24 h) |
|                                         | IP69K             |
| Ambient temperature (operation)         | -40 °C ... 100 °C |
| Ambient temperature (storage/transport) | -40 °C ... 100 °C |
| Temperature when conductor connected    | -5 °C ... 50 °C   |

### Electrical characteristics

|                                |        |
|--------------------------------|--------|
| Nominal current I <sub>N</sub> | 20 A   |
| Rated current                  | 20 A   |
| Rated voltage (III/3)          | 690 V  |
| Rated voltage (III/2)          | 1000 V |
| Rated voltage (II/2)           | 1250 V |
| Rated surge voltage (III/3)    | 6 kV   |
| Rated surge voltage (III/2)    | 8 kV   |
| Rated surge voltage (II/2)     | 8 kV   |

### Mechanical characteristics

|                             |                                   |
|-----------------------------|-----------------------------------|
| QUICKON connectability      | max. 10                           |
| Insertion/withdrawal cycles | >= 50 QUICKON connections max. 10 |
| Category of shock impact    | IK07                              |

### Material data

|                                        |               |
|----------------------------------------|---------------|
| Contact material                       | Cu            |
| Contact surface material               | silver-plated |
| Contact carrier material               | PA            |
| Insulating material                    | PA            |
| Flammability rating according to UL 94 | V0            |
| Overvoltage category                   | III           |

## Conductor connectors - QPD CW 4PE2,5 2X9-16 BK - 1403841

### Technical data

#### Material data

|                     |   |
|---------------------|---|
| Degree of pollution | 3 |
|---------------------|---|

#### Standards and Regulations

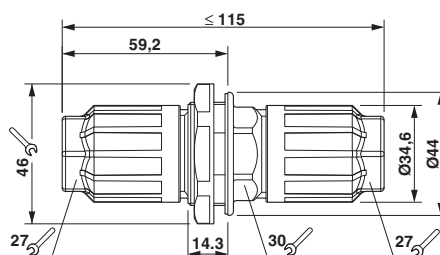
|                                        |     |
|----------------------------------------|-----|
| Halogen-free                           | yes |
| Flammability rating according to UL 94 | V0  |

#### Environmental Product Compliance

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

### Drawings

Dimensional drawing



Dimensional drawing of the QPD CW 5x2.5

### Approvals

#### Approvals

#### Approvals

GL / VDE approval of drawings / IECCEB Scheme / EAC

#### Ex Approvals

#### Approval details

|    |                                                                                     |                                                                           |            |
|----|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------|------------|
| GL |  | <a href="http://exchange.dnv.com/tari/">http://exchange.dnv.com/tari/</a> | 6195914 HH |
|----|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------|------------|

## Conductor connectors - QPD CW 4PE2,5 2X9-16 BK - 1403841

### Approvals

|                          |                                                                                   |                                                                                                                                                                                                           |          |
|--------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| VDE approval of drawings |  | <a href="http://www2.vde.com/de/Institut/Online-Service/VDE-gepruefteProdukte/Seiten/Online-Suche.aspx">http://www2.vde.com/de/Institut/Online-Service/VDE-gepruefteProdukte/Seiten/Online-Suche.aspx</a> | 40029149 |
| Nominal voltage UN       |                                                                                   | 690 V                                                                                                                                                                                                     |          |
| Nominal current IN       |                                                                                   | 20 A                                                                                                                                                                                                      |          |
| mm²/AWG/kcmil            |                                                                                   | 1-2.5                                                                                                                                                                                                     |          |

|                 |                                                                                   |                                                           |           |
|-----------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------|-----------|
| IECEE CB Scheme |  | <a href="http://www.iecee.org/">http://www.iecee.org/</a> | DE1-58228 |
|-----------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------|-----------|

|     |                                                                                   |                          |  |
|-----|-----------------------------------------------------------------------------------|--------------------------|--|
| EAC |  | RU C-<br>DE.AI30.B.01102 |  |
|-----|-----------------------------------------------------------------------------------|--------------------------|--|

Phoenix Contact 2018 © - all rights reserved  
<http://www.phoenixcontact.com>

PHOENIX CONTACT GmbH & Co. KG  
Flachsmarktstr. 8  
32825 Blomberg  
Germany  
Tel. +49 5235 300  
Fax +49 5235 3 41200  
<http://www.phoenixcontact.com>