

## Conductor connectors - QPD C 4PE2,5 1X6-11 BK - 1403834

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QUICKON cable connector, black, 4+PE-pos., 1.0 mm<sup>2</sup> ... 2.5 mm<sup>2</sup> / 690 V / 20 A, for 6 mm ... 11 mm cable diameter.

### Your advantages

- ✓ 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 pc                                                                                                    |
| GTIN         | <br>4 046356 670302 |
| GTIN         | 4046356670302                                                                                           |

### 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>  |

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## 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                                                     | 6 mm ... 11 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     |
| Nominal voltage U <sub>N</sub> | 690 V AC |
|                                | 690 V DC |
| Rated current                  | 20 A     |
| Rated voltage (III/3)          | 690 V    |
| Rated voltage (III/2)          | 1000 V   |
| Rated voltage (II/2)           | 1000 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            |

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### Technical data

#### Material data

|                                        |     |
|----------------------------------------|-----|
| Flammability rating according to UL 94 | V0  |
| Overvoltage category                   | III |
| Degree of pollution                    | 3   |

#### Standards and Regulations

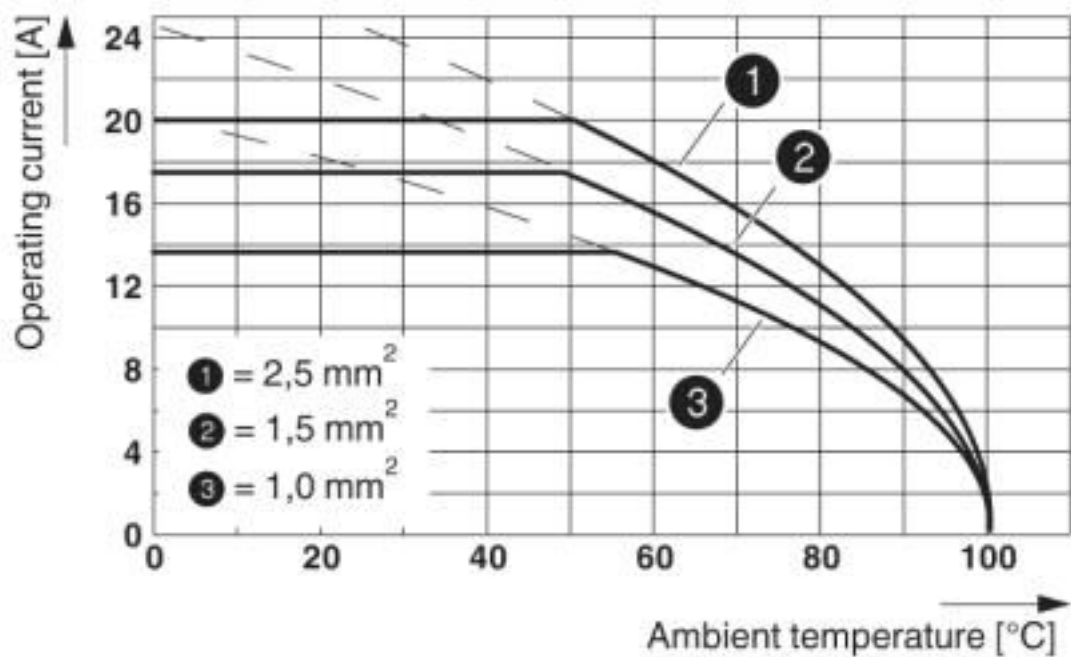
|                                        |      |
|----------------------------------------|------|
| Category of shock impact               | IK07 |
| Halogen-free                           | yes  |
| Flammability rating according to UL 94 | V0   |

#### Environmental Product Compliance

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

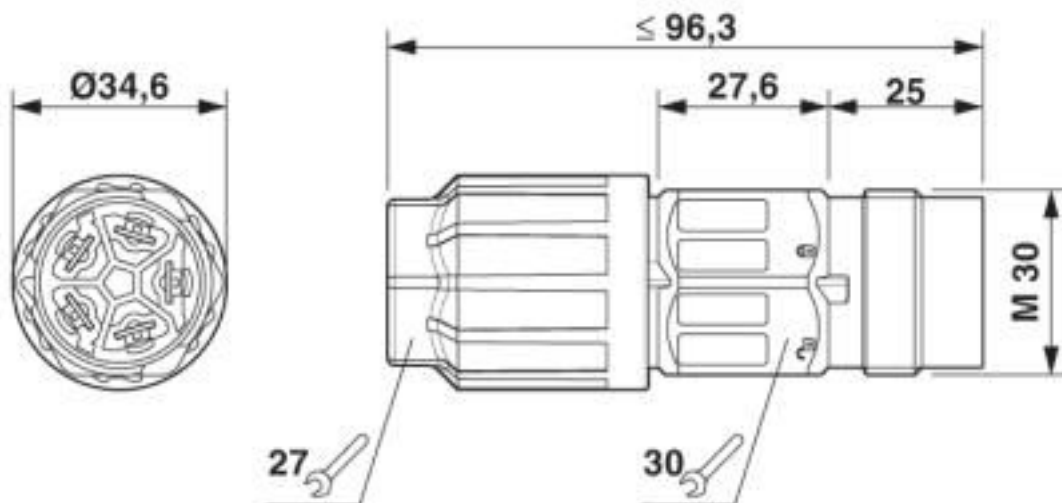
### Drawings

Diagram



## Conductor connectors - QPD C 4PE2,5 1X6-11 BK - 1403834

Dimensional drawing



QPD C 5x2.5 dimensional drawing

### Classifications

#### eCl@ss

|               |          |
|---------------|----------|
| eCl@ss 10.0.1 | 27440605 |
| eCl@ss 4.0    | 27140800 |
| eCl@ss 4.1    | 27140800 |
| eCl@ss 5.0    | 27143400 |
| eCl@ss 5.1    | 27143400 |
| eCl@ss 6.0    | 27143400 |
| eCl@ss 7.0    | 27440605 |
| eCl@ss 8.0    | 27440605 |
| eCl@ss 9.0    | 27440605 |

#### ETIM

|          |          |
|----------|----------|
| ETIM 3.0 | EC000516 |
| ETIM 4.0 | EC002635 |
| ETIM 5.0 | EC002560 |
| ETIM 6.0 | EC002560 |
| ETIM 7.0 | EC002560 |

#### UNSPSC

|               |          |
|---------------|----------|
| UNSPSC 6.01   | 30211923 |
| UNSPSC 7.0901 | 39121522 |
| UNSPSC 11     | 39121522 |
| UNSPSC 12.01  | 39121522 |
| UNSPSC 13.2   | 39121402 |
| UNSPSC 18.0   | 39121402 |

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### Classifications

#### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 19.0 | 39121402 |
| UNSPSC 20.0 | 39121402 |
| UNSPSC 21.0 | 39121402 |

### Approvals

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EAC / EAC / DNV GL / IECCE CB Scheme / UL Listed / cUL Listed / VDE Zeichengenehmigung / cULus Listed

#### Ex Approvals

#### Approval details

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

|     |                                                                                     |                          |
|-----|-------------------------------------------------------------------------------------|--------------------------|
| EAC |  | RU C-<br>DE.BL08.B.00511 |
|-----|-------------------------------------------------------------------------------------|--------------------------|

|        |                                                                                     |                                                                                   |            |
|--------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------|
| DNV GL |  | <a href="https://approvalfinder.dnvgl.com/">https://approvalfinder.dnvgl.com/</a> | TAE00003J5 |
|--------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------|

|                 |                                                                                     |                                                           |           |
|-----------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------|-----------|
| IECEE CB Scheme |  | <a href="http://www.iecee.org/">http://www.iecee.org/</a> | DE1-61559 |
|-----------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------|-----------|

|           |                                                                                     |                                                                                                                                                       |         |
|-----------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| UL Listed |  | <a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a> | E468743 |
|-----------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|---------|

|                    |       |
|--------------------|-------|
| Nominal voltage UN | 600 V |
| Nominal current IN | 10 A  |
| mm²/AWG/kcmil      | 14    |

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### Approvals

|                    |                                                                                   |                                                                                                                                                       |         |
|--------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| cUL Listed         |  | <a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a> | E468743 |
| Nominal voltage UN |                                                                                   | 600 V                                                                                                                                                 |         |
| Nominal current IN |                                                                                   | 10 A                                                                                                                                                  |         |
| mm²/AWG/kcmil      |                                                                                   | 14                                                                                                                                                    |         |

|                        |                                                                                   |                                                                                                                                                                                                           |          |
|------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| VDE Zeichengenehmigung |  | <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                                                                                                                                                                                                     |          |

|              |                                                                                     |
|--------------|-------------------------------------------------------------------------------------|
| cULus Listed |  |
|--------------|-------------------------------------------------------------------------------------|

### Accessories

#### Accessories

#### Coding element

Coding profile - CP-QPD 5X2,5 - 1404530



Coding profile, red, for insertion into the 5-pos. QUICKON dome and connector, can be positioned in 72° increments.

#### Protective cap

Protective cap - QPD QSK 5X2,5 - 1404528



Protective cap, transparent plastic, for 5x 2.5 mm² QPD QUICKON connection, IP50.

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### Accessories

Protective cap - QPD QSK BK 5X2,5 FS - 1404525

Protective cap, plastic, for QUICKON connection, black, with retaining cord, IP68



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### Sealing plugs

Closing cap - SEALING PLUG 10X16 RD - 1400284



Closing cap, material: PA, for threads pluggable, color: red

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### Socket spanner

Socket wrench - QSS 27 - 1670646



Allen wrench, for loosening and fastening the QUICKON union nut, WAF 27 mm

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