

## Conductor connectors - QPD CW3PE2,5 2X6-10 GY - 1423965

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Conductor connectors, QUICKON connection, number of positions: 3+PE, 1 mm<sup>2</sup> ... 2.5 mm<sup>2</sup>, 690 V, 20 A, gray, With two QUICKON nuts, cable diameter range: 6 mm ... 10 mm, QUICKON fast connection

### 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 055626 365831 |
| GTIN         | 4055626365831                                                                                           |

### Technical data

#### General

|                                       |                     |
|---------------------------------------|---------------------|
| Type                                  | QPD 4x2,5           |
| Color                                 | gray                |
| Locking type                          | Screw locking       |
| Connection method                     | QUICKON connection  |
|                                       | IDC connection      |
| Number of positions                   | 4                   |
| Note number of positions              | 3+PE                |
| Tightening torque, union nut          | 7 Nm                |
| Tightening torque, counter nut        | 5 Nm                |
| Conductor cross section flexible min. | 1 mm <sup>2</sup>   |
| Conductor cross section flexible max. | 2.5 mm <sup>2</sup> |

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## Technical data

### General

|                                    |                     |
|------------------------------------|---------------------|
| 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 ... 3.6 mm                    |
| External cable diameter                                                     | 6 mm ... 10 mm                     |
| Position marking                                                            | 1, 2, 3, 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)          | 690 V    |
| Rated voltage (II/2)           | 1000 V   |
| Rated surge voltage (III/3)    | 6 kV     |
| Rated surge voltage (III/2)    | 6 kV     |
| Rated surge voltage (II/2)     | 6 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            |

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### Technical data

#### Material data

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

#### Standards and Regulations

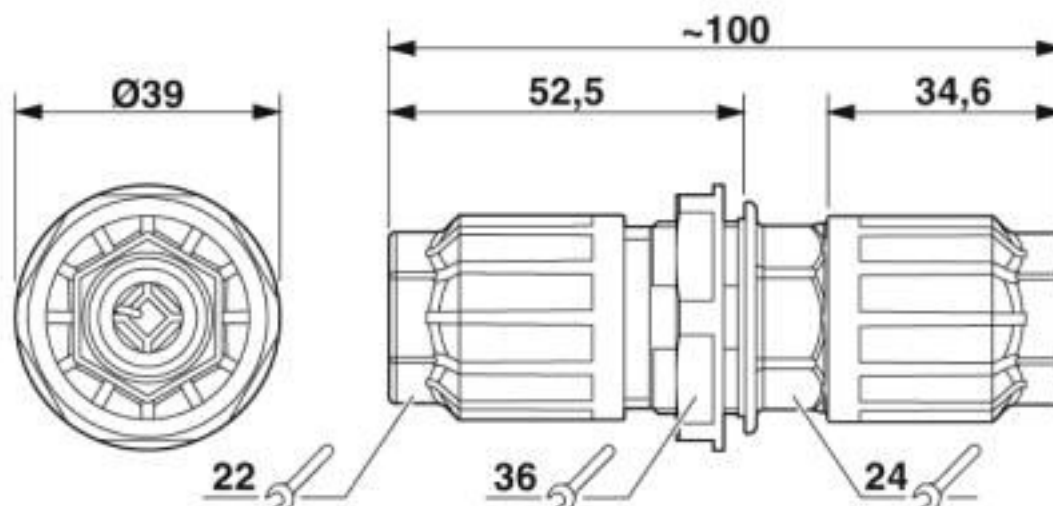
|                                        |      |
|----------------------------------------|------|
| Category of shock impact               | IK07 |
| Halogen-free                           | yes  |
| Flammability rating according to UL 94 | V0   |

#### Environmental Product Compliance

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

### Drawings

Dimensional drawing



Dimensional drawing

### Classifications

#### eCl@ss

|               |          |
|---------------|----------|
| eCl@ss 10.0.1 | 27440605 |
| eCl@ss 7.0    | 27440605 |
| eCl@ss 9.0    | 27440605 |

#### ETIM

|          |          |
|----------|----------|
| ETIM 6.0 | EC002560 |
| ETIM 7.0 | EC002560 |

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### Approvals

#### Approvals

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EAC / IECEE CB Scheme / UL Listed / cUL Listed / VDE Zeichengenehmigung / cULus Listed

#### Ex Approvals

#### Approval details

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

|                 |                                                                                    |                                                           |           |
|-----------------|------------------------------------------------------------------------------------|-----------------------------------------------------------|-----------|
| 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 |
|-----------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|---------|

|            |                                                                                     |                                                                                                                                                       |         |
|------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| 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 |
|------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|---------|

|                        |                                                                                     |                                                                                                                                                                                                           |          |
|------------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| 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          | 1.5-2.5                                                                             |                                                                                                                                                                                                           |          |

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

### Accessories

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#### Coding element

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### Accessories

Coding profile - CP QPD 4X2,5 - 1425950



Coding profile red, for pushing into the QUICKON dome and connector, can be positioned in 90° steps.

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### Protective cap

Protective cap - QPD QSK 5X1,5 - 1414758



Protective cap plastic, for QPD-QUICKON connection 5x 1.5 mm², IP50

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Protective cap - QPD QSK BK 5X1,5 FS - 1414728



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 22 - 1670206



Allen wrench, for loosening and fastening the QUICKON union nut, WAF 22 mm

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