

# QPD CW3PE2,5 2X6-10 BK - Conductor connector



1424038

<https://www.phoenixcontact.com/us/products/1424038>

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Conductor connector, connection method: IDC connection/ IDC connection, number of positions: 3+PE, 1 mm<sup>2</sup> ... 2.5 mm<sup>2</sup>, 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                          | 1424038       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Sales key                            | BF50          |
| Product key                          | AF6CBB        |
| GTIN                                 | 4055626366401 |
| Weight per piece (including packing) | 71.9 g        |
| Weight per piece (excluding packing) | 22.22 g       |
| Customs tariff number                | 85366990      |
| Country of origin                    | PL            |

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## Technical data

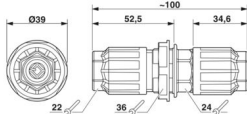
### Product properties

|                                    |                 |
|------------------------------------|-----------------|
| 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               | 39 mm                                                                                |
| Height              | 39 mm                                                                                |
| Length              | 100 mm                                                                               |
| Diameter            | 39 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  |

### Electrical properties

|                             |        |
|-----------------------------|--------|
| Rated surge voltage (II/2)  | 6 kV   |
| Rated surge voltage (III/2) | 6 kV   |
| Rated surge voltage (III/3) | 6 kV   |
| Rated current               | 20 A   |
| Contact resistance          | < 3 mΩ |
| rated voltage (II/2)        | 1000 V |

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|                       |          |
|-----------------------|----------|
| rated voltage (III/2) | 690 V    |
| Rated voltage (III/3) | 690 V    |
| Nominal voltage $U_N$ | 690 V AC |
|                       | 690 V DC |
| 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                       | Cu                |
| 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                                                                | yes                                |

## Environmental and real-life conditions

### Ambient conditions

|                                         |                                        |
|-----------------------------------------|----------------------------------------|
| Degree of protection                    | IP66                                   |
|                                         | IP68 (2 m / 24 h)                      |
|                                         | IP69K                                  |
|                                         | Touch-proof when not plugged in (IP2X) |
| 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                      |

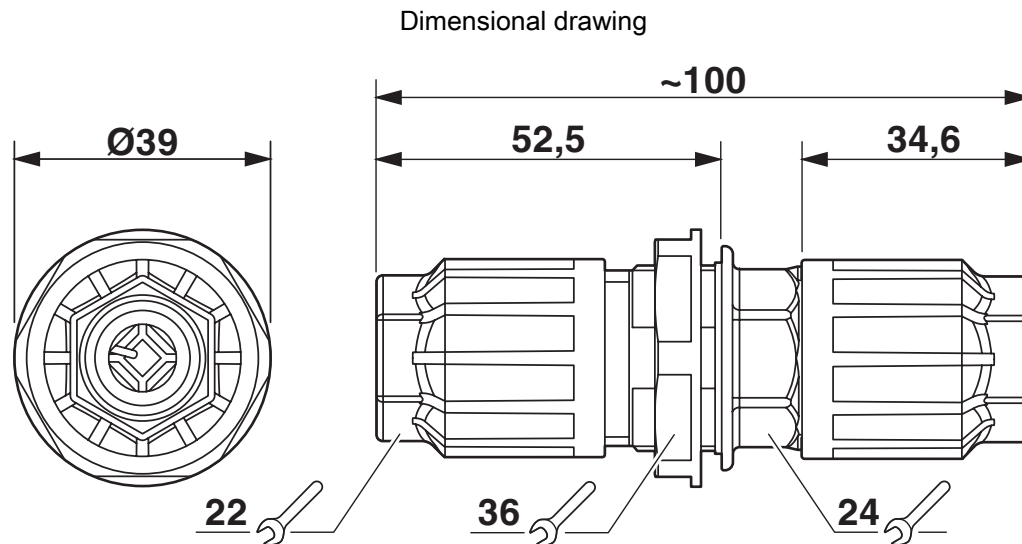
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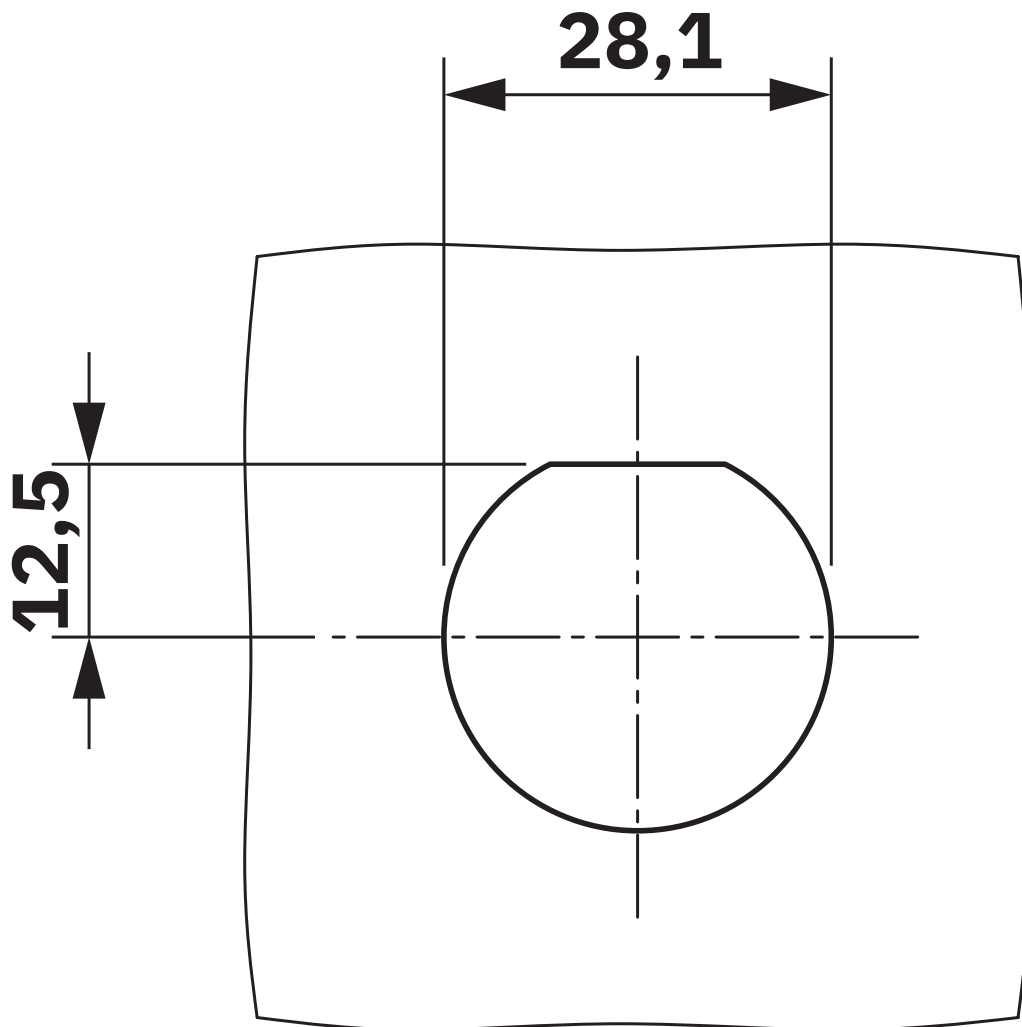
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## Drawings



Dimensional drawing

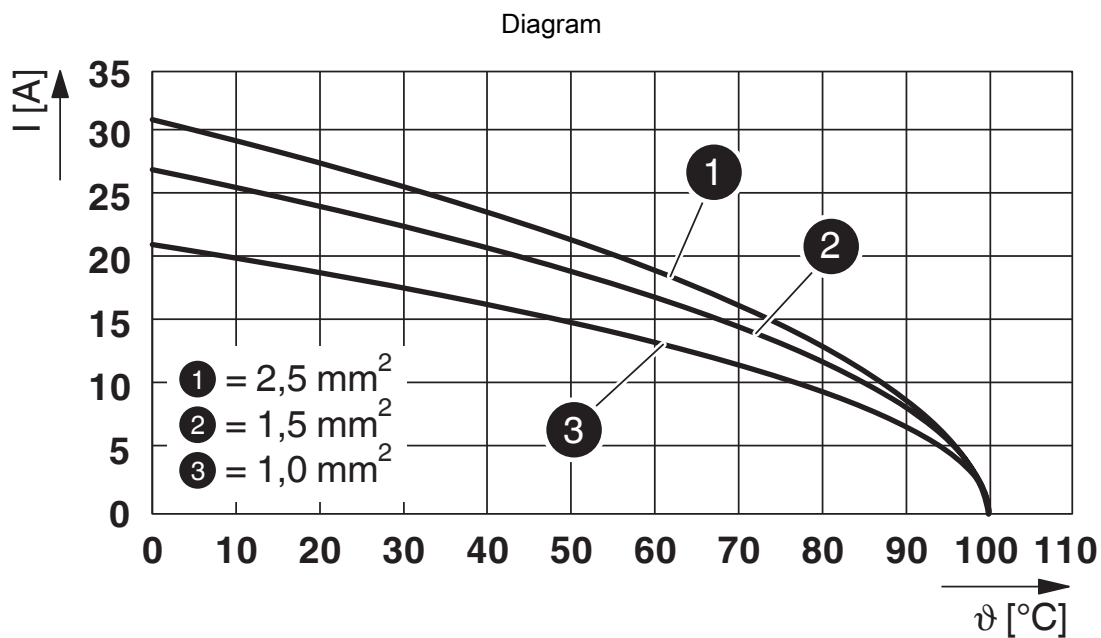
Dimensional drawing



Panel cutout

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Derating diagram

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1424038>



### IECEE CB Scheme

Approval ID: DE1-65875



### VDE Zeichengenehmigung

Approval ID: 40029149

|                          | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
|--------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
| keine                    |                       |                       |                   |                             |
| Only flexible conductors | 400 V                 | 20 A                  | -                 | 1.5 - 2.5                   |
| Only rigid conductors    | 690 V                 | 20 A                  | -                 | 1.5 - 2.5                   |



### UL Listed

Approval ID: E468743

|       | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
|-------|-----------------------|-----------------------|-------------------|-----------------------------|
| keine |                       |                       |                   |                             |
|       | 600 V                 | 10 A                  | - 16              | - 16                        |



### cUL Listed

Approval ID: E468743

|       | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
|-------|-----------------------|-----------------------|-------------------|-----------------------------|
| keine |                       |                       |                   |                             |
|       | 600 V                 | 10 A                  | - 16              | -                           |



### DNV GL

Approval ID: TAE00003J5

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## Classifications

### ECLASS

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

### ETIM

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

### UNSPSC

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

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## 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%               |
| EF3.0 Climate Change                    |                                          |
| CO2e kg                                 | 0.715 kg CO2e                            |

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