

# QPD CW3PE2,5 1X6-10 BK - Conductor connectors



1424040

<https://www.phoenixcontact.com/us/products/1424040>

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Conductor connectors, product family: QPD, connection method: 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 one QUICKON nut, 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	1424040
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF50
Product key	BF6CBB
GTIN	4055626366425
Weight per piece (including packing)	57.1 g
Weight per piece (excluding packing)	55.7 g
Customs tariff number	85366990
Country of origin	PL

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## Technical data

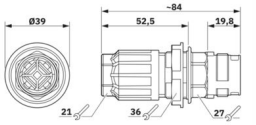
### Product properties

Type	QPD 4x2,5
Product type	Cable connector
Product family	QPD
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	84 mm
Diameter	39 mm

### Connection data

#### Connection technology

Frequency of connections between conductors of the same cross section	max. 10
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#### Conductor connection

Tightening torque	7 Nm
	5 Nm
Tightening torque Union nut	7 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
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## 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 / rubber / TPE

## 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
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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## Classifications

### ECLASS

ECLASS-11.0	27440605
ECLASS-12.0	27440605
ECLASS-13.0	27440605

### ETIM

ETIM 9.0	EC002560
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### UNSPSC

UNSPSC 21.0	39121400
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## Environmental product compliance

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

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