

# QPD CW 4PE2,5 1X6-11 GY - Conductor connector



1403847

<https://www.phoenixcontact.com/us/products/1403847>

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QUICKON cable connector, gray, 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
- 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	1403847
Packing unit	1 pc
Minimum order quantity	1 pc
Product key	BF6CCB
Catalog page	Page 171 (NTK-2012)
GTIN	4046356670425
Weight per piece (including packing)	86.4 g
Weight per piece (excluding packing)	22.22 g
Country of origin	DE

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## Technical data

### Product properties

Product type	Panel feed-through
Product family	QPD
Type	QPD 5x2,5
Number of positions	5
Connection profile	4+PE
Position marking	1, 2, L, N, PE
Number of connections per position	1
Coding	Coding profile

### Insulation characteristics

Overvoltage category	III
Degree of pollution	3

### Connection data

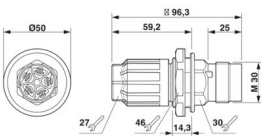
#### Connection technology

Connection method On the field side	IDC connection
Frequency of connections between conductors of the same cross section	max. 10

#### Conductor connection

Conductor cross section flexibel	1 mm² ... 2.5 mm²
Conductor cross section solid	1 mm² ... 2.5 mm²
Connection cross section AWG	16 ... 14
Tightening torque Union nut	10 Nm
Tightening torque Locking nut	5 Nm
Wrench size Union nut	27 mm

### Dimensions

Dimensional drawing	
Width	50 mm
Height	50 mm
Length	96.3 mm
Diameter	50 mm
Wrench size	27 mm
Wrench size for mounting	27 mm

### Electrical properties

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Rated surge voltage (II/2)	8 kV
Rated surge voltage (III/2)	8 kV
Rated surge voltage (III/3)	6 kV
Rated current	20 A
Contact resistance	< 3 mΩ
rated voltage (II/2)	1000 V
rated voltage (III/2)	1000 V
Rated voltage (III/3)	690 V
Nominal voltage $U_N$	690 V
Nominal current $I_N$	20 A

## Mechanical properties

### Mechanical data

Insertion/withdrawal cycles	>= 50 (QUICKON connections max. 10)
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## Material specifications

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, L, N, 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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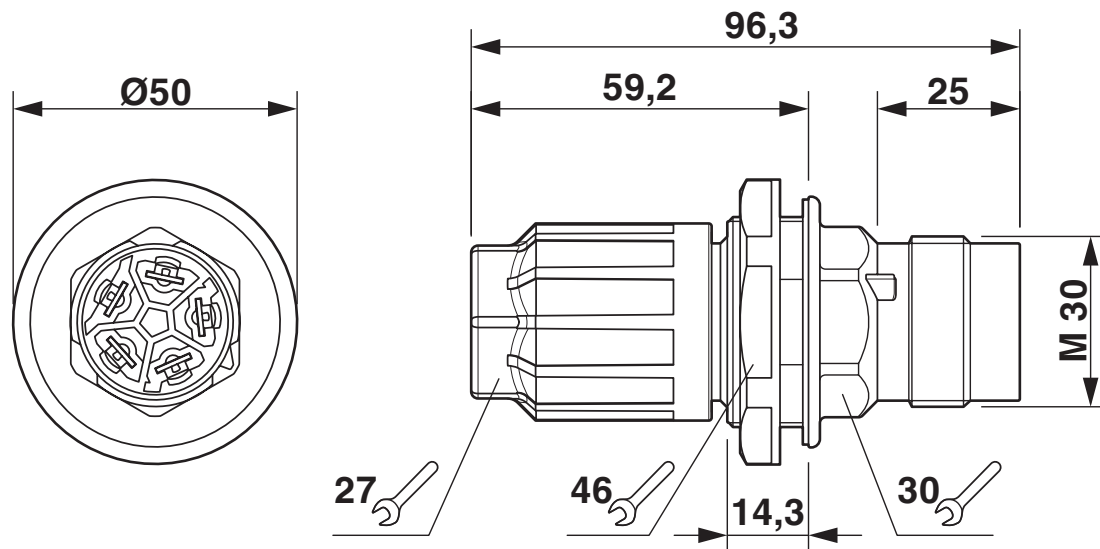


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## Drawings

Dimensional drawing



Dimensional drawing of the QPD CW 5x2.5

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## Classifications

### ECLASS

ECLASS-11.0	27440605
ECLASS-13.0	27440605

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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%

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