

1403848  
<https://www.phoenixcontact.com/us/products/1403848>

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



Cable connector panel feed-through, single-sided with QPD nut, black, 4+PE-pos., 1.0 mm<sup>2</sup> ... 2.5 mm<sup>2</sup>/690 V/20 A, for cable diameter of 6 mm ... 11 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	1403848
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF50
Product key	BF6CCB
Catalog page	Page 384 (C-4-2013)
GTIN	4046356670432
Weight per piece (including packing)	83.8 g
Weight per piece (excluding packing)	83.8 g
Customs tariff number	85366990
Country of origin	PL

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



1403848

<https://www.phoenixcontact.com/us/products/1403848>

## Technical data

### Mounting

Wrench size	27 mm
-------------	-------

### Product properties

Type	QPD 5x2,5
Product type	Cable connector
Product family	QPD
Number of positions	5
Connection profile	4+PE
Position marking	1, 2, 3, N, PE
Number of connections per position	1
Coding	Coding profile

### Insulation characteristics

Overvoltage category	III
Degree of pollution	3

### Dimensions

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

### Electrical properties

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



1403848

<https://www.phoenixcontact.com/us/products/1403848>

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)	1250 V
rated voltage (III/2)	1000 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 (QUICKON connections max. 10)
-----------------------------	---------------------------------------

## 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 ... 11 mm
Wire diameter including insulation	2 mm ... 3.8 mm
Position marking	1, 2, 3, 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

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



1403848

<https://www.phoenixcontact.com/us/products/1403848>

## Classifications

### ECLASS

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

### ETIM

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

### UNSPSC

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

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



1403848

<https://www.phoenixcontact.com/us/products/1403848>

## Environmental product compliance

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

Phoenix Contact 2024 © - all rights reserved  
<https://www.phoenixcontact.com>

Phoenix Contact USA  
586 Fulling Mill Road  
Middletown, PA 17057, United States  
(+717) 944-1300  
[info@phoenixcon.com](mailto:info@phoenixcon.com)