QPD C 4PE6,0 1X12-20 GY - Conductor connector

1410418

https://www.phoenixcontact.com/us/products/1410418

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QUICKON cable connector, with a QUICKON nut, gray, 4+PE-pos., 2.5 mm^2 ... 6.0 mm^2/690 V/40 A, for cable diameter of 12 mm ... 20 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	1410418
Packing unit	1 pc
Minimum order quantity	1 pc
Product key	BF6CCC
Catalog page	Page 190 (NTK-2014)
GTIN	4046356929585
Weight per piece (including packing)	22.22 g
Weight per piece (excluding packing)	22.22 g
Country of origin	PL

Technical data

Product properties

Product type	Cable connector
Product family	QPD
Type	QPD 5x6,0
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

Dimensions

Dimensional drawing	
Width	39.6 mm
Height	39.6 mm
Length	105.6 mm
Diameter	39.6 mm
Wrench size	30 mm
Wrench size for mounting	30 mm

Connection data

Connection technology

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

Conductor connection

Tightening torque	15 Nm
Tightening torque Union nut	15 Nm
Wrench size Union nut	30 mm

Electrical properties

Rated surge voltage (II/2)	8 kV
Rated surge voltage (III/2)	8 kV
Rated surge voltage (III/3)	6 kV
Rated current	40 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	40 A

Mechanical properties

Mechanical data

| Insertion/withdrawal cycles | >= 50 (QUICKON connections max. 10) |

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	12 mm ... 20 mm
Wire diameter including insulation	2.95 mm ... 5 mm
Position marking	1, 2, L, N, PE
Material wire insulation	PVC/PE/TPE/rubber

Environmental and real-life conditions

Ambient conditions

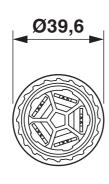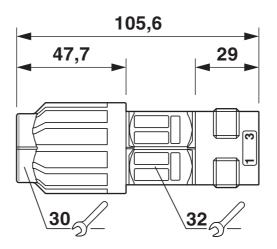| Degree of protection | IP66 |
	IP68 (2 m / 24 h)
	IP69K
Ambient temperature (operation)	-40 °C ... 100 °C
Temperature when conductor connected	-5 °C ... 50 °C
Ambient temperature (storage/transport)	-40 °C ... 100 °C

Drawings

Dimensional drawing

Dimensional drawing of QPD C 5x6,0

Classifications

ECLASS

ECLASS-11.0	27440605
ECLASS-13.0	27440605

Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions

EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%

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Accessories

CP-QPD 5X6,0 - Coding profile

1411402

https://www.phoenixcontact.com/us/products/1411402

Coding profile, red, for insertion into the 5-pos. QUICKON dome and connector, can be positioned in 72° increments.

QPD QSK 5X6,0 - Protective cap

1411403

https://www.phoenixcontact.com/us/products/1411403

Protective cap, product family: QPD, Plastic, black

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QPD QSK GY 5X6,0 FS - Protective cap

1411401

https://www.phoenixcontact.com/us/products/1411401

Protective cap, plastic, for QUICKON connection, gray, with retaining cord, IP68

SEALING PLUG 14X22 RD - Closing cap

1400270

https://www.phoenixcontact.com/us/products/1400270

Closing cap, for threads pluggable, color: red