

QPD C 4PE6,0 1X9-14 BK - Conductor connector



1410415

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QUICKON cable connector, with a QUICKON nut, black, 4+PE-pos., 2.5 mm² ... 6.0 mm²/690 V/40 A, for cable diameter of 9 mm ... 14 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	1410415
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF50
Product key	BF6CCC
Catalog page	Page 491 (C-2-2019)
GTIN	4046356929554
Weight per piece (including packing)	96.2 g
Weight per piece (excluding packing)	96.2 g
Customs tariff number	85366990
Country of origin	PL

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Technical data

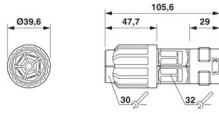
Product properties

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

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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 AC
	690 V DC
Nominal current I_N	40 A

Mechanical properties

Mechanical data

Insertion/withdrawal cycles	max. 50 (QUICKON connections max. 10)
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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/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	9 mm ... 14 mm
Wire diameter including insulation	2.95 mm ... 5 mm
Position marking	1, 2, 3, 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

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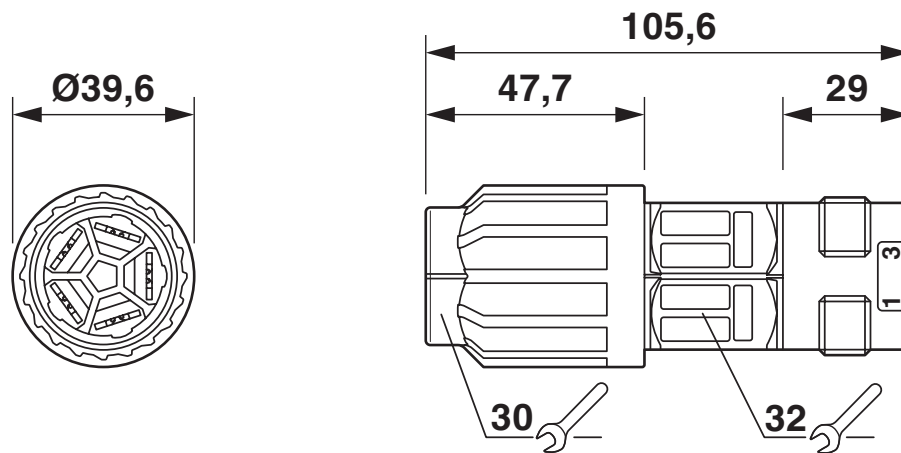


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Drawings

Dimensional drawing



Dimensional drawing of QPD C 5x6,0

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Approvals

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IECEE CB Scheme
Approval ID: DE1-65875



EAC
Approval ID: RU C-DE.BL08.B.00511



DNV GL
Approval ID: TAE00003J5



VDE Zeichengenehmigung
Approval ID: 40029149

	UL Listed Approval ID: E468743			
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	600 V	20 A	-	- 12

	cUL Listed Approval ID: E468743			
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	600 V	20 A	- 12	-

cULus Listed

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Classifications

ECLASS

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

ETIM

ETIM 9.0	EC002560
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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%

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Mandatory accessories

QPD P 4PE6,0 9-14 BK - Connector

1410386

<https://www.phoenixcontact.com/us/products/1410386>



Connector, product family: QPD, connection method: IDC connection, number of positions: 4+PE, 2.5 mm² ... 6 mm², 690 V, 40 A, PA, black, with QUICKON nut, external cable diameter: 9 mm ... 14 mm

QPD P 4PE6,0 9-14 TL BK - Connector

1039564

<https://www.phoenixcontact.com/us/products/1039564>



Connector, product family: QPD, connection method: IDC connection, number of positions: 4+PE, 2.5 mm² ... 6 mm², 690 V, 40 A, PA, black, with QUICKON nut, external cable diameter: 9 mm ... 14 mm

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QPD N 4PE6,0 9-14 BK - Nut

1410409

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QUICKON nut, black, 4+PE-pos., 2.5 mm² ... 6.0 mm²/690 V/40 A, for cables with a diameter of 9 mm ... 14 mm.

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.

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QPD QSK 5X6,0 - Protective cap

1411403

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Protective cap, black plastic, for 5 x 2.5 mm² QPD connector, IP50.



QPD QSK BK 5X6,0 FS - Protective cap

1411400

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



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SEALING PLUG 10X16 RD - Closing cap

1400284

<https://www.phoenixcontact.com/us/products/1400284>

Closing cap, for threads pluggable, color: red



QPD W 4PE6,0 9-14 M25 0,5 BK - Panel feed-through

1410392

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QUICKON panel feed-through, 4+PE-pos., 2.5 mm² ... 6.0 mm²/690 V/40 A, with QUICKON nut, black, for cable diameter of 9 mm ... 14 mm, M25 connection thread with 5 welded-on 6.0 mm² cable wires, 0.5 m long, cut flat at the end.

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QPD W 4PE6,0 9-14 M25 1,0 BK - Panel feed-through

1410393

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QUICKON panel feed-through, 4+PE-pos., 2.5 mm² ... 6.0 mm²/690 V/40 A, with QUICKON nut, black, for cable diameter of 9 mm ... 14 mm, M25 connection thread with 5 welded-on 6.0 mm² cable wires, 1.0 m long, cut flat at the end.

QPD C 4PE6,0 2X9-14 BK - Conductor connector

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QUICKON cable connector, black, 4+PE-pos., 2.5 mm² ... 6.0 mm²/690 V/40 A, for cable diameter of 9 mm ... 14 mm.

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QPD T 4PE6,0 2X9-14 BK - T distributor

1411416

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QUICKON T-distributor, black, 4+PE-pos., 2.5 mm² ... 6.0 mm²/690 V/40 A, for cable diameter of 9 mm ... 14 mm, with two QUICKON nuts

QPD T 4PE6,0 3X9-14 BK - T distributor

1411414

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QUICKON T-distributor, black, 4+PE-pos., 2.5 mm² ... 6.0 mm²/690 V/40 A, for cable diameter of 9 mm ... 14 mm, with three QUICKON nuts

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QPD H 4PE6,0 4X9-14 BK - H distributor

1411422

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QUICKON H-distributor, black, 4+PE-pos., 2.5 mm² ... 6.0 mm²/690 V/40 A, for cable diameter of 9 mm ... 14 mm, with a sealing bolt.

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