

1403831

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QUICKON cable connector, black, 4+PE-pos., 1.0 $\,{\rm mm}^2$... 2.5 $\,{\rm mm}^2$ / 690 V / 20 A, for 9 mm ... 16 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	1403831
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF50
Product key	BF6CCB
Catalog page	Page 483 (C-2-2019)
GTIN	4046356670289
Weight per piece (including packing)	68.4 g
Weight per piece (excluding packing)	68.4 g
Customs tariff number	85366990
Country of origin	PL



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Technical data

Mounting

Wrench size	27 mm
Connection method	QUICKON fast connection

Product properties

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
Series	QPD
Coding	Coding profile

Insulation characteristics

Overvoltage category	III
Degree of pollution	3

Dimensions

Dimensional drawing	27.6 25 30.0 27.6 25 30.0 27.6 25 30.0 27.6 25 30.0
Width	34.6 mm
Height	34.6 mm
Length	96.3 mm
Diameter	34.6 mm
Wrench size, union nut	27 mm
Wrench size for mounting	27 mm

Connection data

Connection technology

Connection method	QUICKON fast connection
Connection system, internal	IDC connection
Connection technology	QUICKON connection
Frequency of connections between conductors of the same cross section	max. 10

Conductor connection	
Conductor cross section rigid	1 mm² 2.5 mm²



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Conductor cross section flexible	1 mm² 2.5 mm²
Conductor cross section AWG	16 14
Wrench size, union nut	27 mm
Tightening torque, union nut	10 Nm
Tightening torque, counter nut	5 Nm

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	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 AC
	690 V DC
Nominal current I _N	20 A

Mechanical properties

Mechanical data

Insertion/withdrawal cycles	max. 50
•	

Material specifications

Material	PA
Flammability rating according to UL 94	V0
Contact material	Cu
Contact surface material	silver-plated
Contact carrier material	PA

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 16 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	



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Ambient temperature (operation)	-40 °C 100 °C
Temperature when conductor connected	-5 °C 50 °C
Ambient temperature (storage/transport)	-40 °C 100 °C

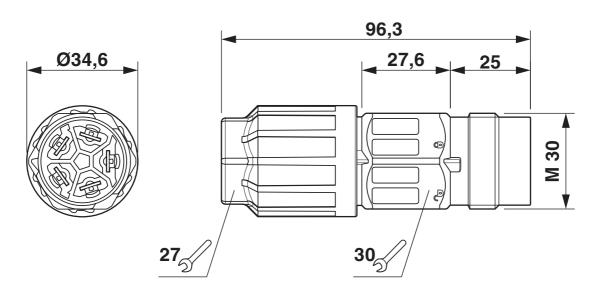


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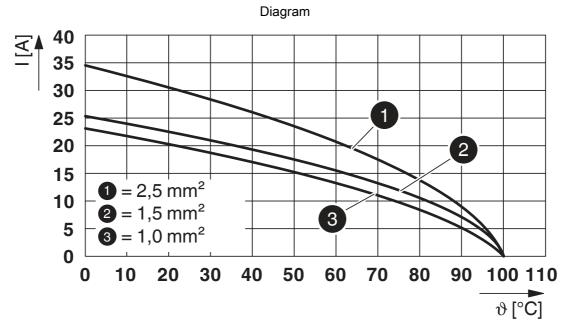
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Drawings

Dimensional drawing



QPD C 5x2.5 dimensional drawing



Derating diagram



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Approvals

🌣 To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1403831



IECEE CB Scheme

Approval ID: DE1-65875



EAC

Approval ID: RU C-DE.Al30.B.01102



DNV GL

Approval ID: TAE00003J5



EAC

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



VDE Zeichengenehmigung

Approval ID: 40029149

<u>@</u>	UL Listed Approval ID: E468743				
		Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
		600 V	10 A	-	- 14

•(1)	cUL Listed Approval ID: E468743				
		Nominal voltage \mathbf{U}_{N}	Nominal current I _N	Cross section AWG	Cross section mm ²
		600 V	10 A	- 14	-

cULus Listed



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Classifications

ECLASS

	ECLASS-11.0	27440605	
	ECLASS-12.0	27440605	
	ECLASS-13.0	27440605	
ETIM			
	•••		
	ETIM 8.0	EC002560	
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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Mandatory accessories

QPD P 4PE2,5 9-16 BK - Connector

1403782

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QUICKON connector, black, 4+PE-pos., $1.0~\text{mm}^2$... $2.5~\text{mm}^2$ /690 V/20 A, with QUICKON nut, for cables with 9 mm ... 16 mm diameter.

QPD P 4PE2,5 9-16 TL BK - Connector

1039561

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QUICKON connector, black, 4+PE-pos., $1.0~\text{mm}^2$... $2.5~\text{mm}^2/690~\text{V}/20~\text{A}$, with QUICKON nut, for cables with 9 mm ... 16 mm diameter.



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QPD N 4PE2,5 9-16 BK - Nut

1459647

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QUICKON nut, black, 4+PE-pos., 1.0 $\,{\rm mm^2}$... 2.5 $\,{\rm mm^2/690}$ V/20 A, for cables with 9 mm ... 16 mm diameter.

Accessories

CP-QPD 5X2,5 - Coding profile

1404530

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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 5X2,5 - Protective cap

1404528

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Protective cap, transparent plastic, for $5x\ 2.5\ \text{mm}^2\ \text{QPD}\ \text{QUICKON}$ connection, IP50.

QPD QSK BK 5X2,5 FS - Protective cap

1404525

https://www.phoenixcontact.com/us/products/1404525

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





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SEALING PLUG 14X22 RD - Closing cap

1400270

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Closing cap, for threads pluggable, color: red

QPD W 4PE2,5 9-16 M20 0,5 BK - Panel feed-through

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Panel feed-through, QUICKON connection, number of positions: 4+PE, 1 mm 2 ... 2.5 mm 2 , 690 V, 20 A, black, with QUICKON nut, external cable diameter: 9 mm ... 16 mm, assembly thread: M20, Single wires (welded-on), 2.5 mm 2 , wires cut flat at the end, cable length: 0.5 m



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QPD W 4PE2,5 9-16 M20 1,0 BK - Panel feed-through

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Panel feed-through, QUICKON connection, number of positions: 4+PE, 1 mm 2 ... 2.5 mm 2 , 690 V, 20 A, black, with QUICKON nut, external cable diameter: 9 mm ... 16 mm, assembly thread: M20, Single wires (welded-on), 2.5 mm 2 , wires cut flat at the end, cable length: 1 m

QPD W 4PE2,5 9-16 M20 FC BK - Panel feed-through

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Panel feed-through, QUICKON connection, number of positions: 4+PE, 1 mm^2 ... 2.5 mm^2 , 690 V, 15 A, black, with QUICKON nut, external cable diameter: 9 mm ... 16 mm, assembly thread: M20, Spade connection (For slip-on sleeves according to DIN 46247-2)



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QPD W 4PE2,5 9-16 M25 0,5 BK - Panel feed-through

1582561

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Panel feed-through, QUICKON connection, number of positions: 4+PE, 1 mm 2 ... 2.5 mm 2 , 690 V, 20 A, black, with QUICKON nut, external cable diameter: 9 mm ... 16 mm, assembly thread: M25, Single wires (welded-on), 2.5 mm 2 , wires cut flat at the end, cable length: 0.5 m

QPD W 4PE2,5 9-16 M25 1,0 BK - Panel feed-through

1582562

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Panel feed-through, QUICKON connection, number of positions: 4+PE, 1 mm^2 ... 2.5 mm^2 , 690 V, 20 A, black, with QUICKON nut, external cable diameter: 9 mm ... 16 mm, assembly thread: M25, Single wires (welded-on), 2.5 mm^2 , wires cut flat at the end, cable length: 1 m



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QPD W 4PE2,5 9-16 M25 FC BK - Panel feed-through

1582563

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QUICKON panel feed-through, black, 4+PE-pos. 1.0 mm^2 ... 2.5 mm^2 /690 V/20 A, with QUICKON nut, for 9 mm ... 16 mm cable diameter, M25 connection thread with 5 slip-on contacts for slip-on sleeves according to DIN 46247-2

QPD W 4PE2,5 9-16 M25 DT BK - Panel feed-through

1411433

https://www.phoenixcontact.com/us/products/1411433



QUICKON panel feed-through, black, 4+PE-pos., 1.0 $\rm mm^2$... 2.5 $\rm mm^2/690~V/20$ A, with QUICKON nut, for cable diameter of 9 mm ... 16 mm, with push-in spring-cage connection.



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QPD C 4PE2,5 2X9-16 BK - Conductor connectors

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QUICKON cable connector, black, 4+PE-pos., 1.0 $\rm mm^2 \dots 2.5~\rm mm^2$ / 690 V / 20 A, for 9 $\rm mm \dots 16~\rm mm$ cable diameter.

QPD T 4PE 2X9-16 BK - T distributor

1405404

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QUICKON T-distributor, black, 4+PE-pos., 1.0 $\rm mm^2$... 2.5 $\rm mm^2/690~V/20~A$, for cable diameter of 9 $\rm mm$... 16 $\rm mm$, with two QUICKON nuts



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QPD T 4PE 3X9-16 BK - T distributor

1405402

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QUICKON T-distributor, black, 4+PE-pos., 1.0 mm^2 ... 2.5 mm^2 /690 V/20 A, for cable diameter of 9 mm ... 16 mm, with three QUICKON nuts

QPD H 4PE2,5 4X9-16 BK - H distributor

1406369

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QUICKON H-distributor, black, 4 pos. +PE, 1.0 $\rm mm^2$... 2.5 $\rm mm^2$ / 690 V / 20 A, for cable diameters of 9 mm ... 16 mm, with a sealing bolt.



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QSS 27 - Socket wrench

1670646

https://www.phoenixcontact.com/us/products/1670646



Allen wrench, for loosening and fastening the QUICKON union nut, WAF 27 mm

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