QPD C3PE2,5 1X6-10 BK - Conductor connector

1423991

https://www.phoenixcontact.com/us/products/1423991

PHŒNIX CONTACT

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Conductor connector, product family: QPD, connection method: IDC connection, number of positions: 3+PE, 1 mm^2 ... 2.5 mm^2, 690 V, 20 A, PA, black, with one QUICKON nut, coding: Coding profile, external cable diameter: 6 mm ... 10 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	1423991
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF50
Product key	BF6CBB
Catalog page	Page 483 (C-2-2019)
GTIN	4055626366081
Weight per piece (including packing)	48.3 g
Weight per piece (excluding packing)	47.3 g
Customs tariff number	85366990
Country of origin	PL

Technical data
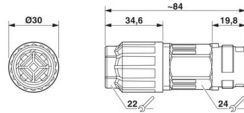
Product properties

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

Insulation characteristics

Overvoltage category	III
Degree of pollution	3

Dimensions

Dimensional drawing	
Width	30 mm
Height	30 mm
Length	84 mm
Diameter	30 mm

Connection data

Connection technology

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

Conductor connection

Tightening torque	10 Nm
Tightening torque Union nut	10 Nm

Electrical properties

Rated surge voltage (II/2)	6 kV
Rated surge voltage (III/2)	6 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)	690 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

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	6 mm ... 10 mm
Wire diameter including insulation	2 mm ... 3.8 mm
Position marking	1, 2, 3, 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

Drawings

Diagram

1 = 2,5 mm^2
2 = 1,5 mm^2
3 = 1,0 mm^2
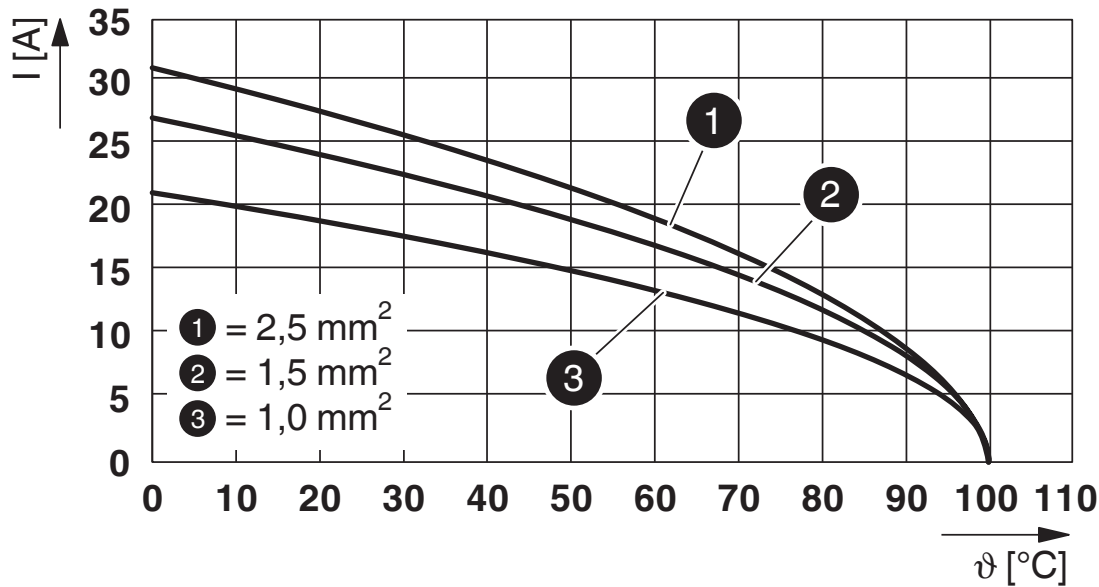
Derating diagram

Dimensional drawing
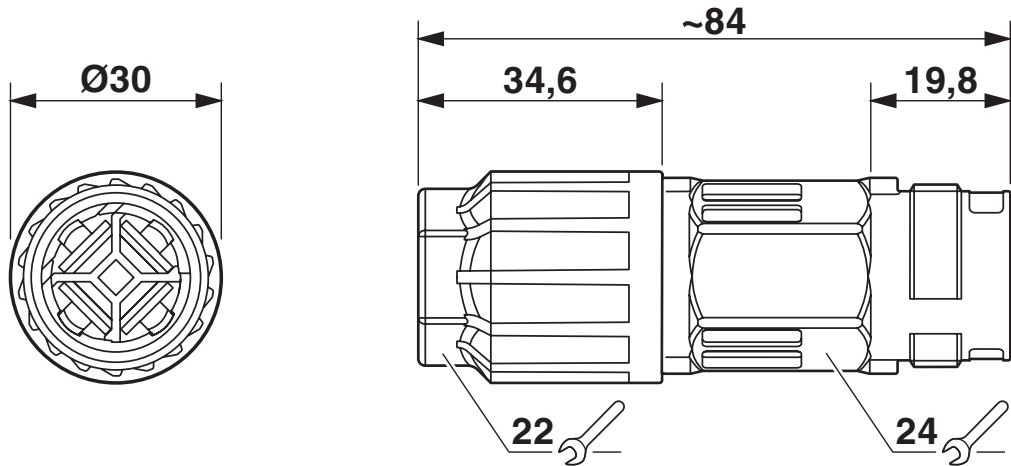
Dimensional drawing

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Approvals

🔅 To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1423991

CB scheme	IECEE CB Scheme
	Approval ID: DE1-65875

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

VDE Zeichengenehmigung
Approval ID: 40029149

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
Only flexible conductors	400 V	20 A	-	1.5 - 2.5
Only rigid conductors	690 V	20 A	-	1.5 - 2.5

UL Listed
Approval ID: E468743

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	600 V	10 A	-	- 16

cUL Listed
Approval ID: E468743

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	600 V	10 A	- 16	-

cULus Listed

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Classifications

ECLASS

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

ETIM

ETIM 9.0	EC002560

UNSPSC

UNSPSC 21.0	39121400

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 P3PE2,5 6-10 BK - Connector

1423987

https://www.phoenixcontact.com/us/products/1423987

Connector, product family: QPD, connection method: IDC connection, number of positions: 3+PE, 1 mm^2 ... 2.5 mm^2, 690 V, 20 A, PA, black, with QUICKON nut, coding: Coding profile, external cable diameter: 6 mm ... 10 mm

QPD N2,5 6-10 BK - Nut

1423993

https://www.phoenixcontact.com/us/products/1423993

Nut, product family: QPD, connection method: IDC connection, 1 mm^2 ... 2.5 mm^2, 690 V, 20 A, PA, black, external cable diameter: 6 mm ... 10 mm

Accessories

QPD C3PE2,5 1X6-10 BK - Conductor connector

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CP QPD 4X2,5 - Coding profile

1425950

https://www.phoenixcontact.com/us/products/1425950

Coding profile red, for pushing into the QUICKON dome and connector, can be positioned in 90° steps.

QPD QSK 5X1,5 - Protective cap

1414758

https://www.phoenixcontact.com/us/products/1414758

Protective cap plastic, for QPD-QUICKON connection 5x 1.5 mm^2, IP50

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QPD QSK BK 5X1,5 FS - Protective cap

1414728

https://www.phoenixcontact.com/us/products/1414728

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

SEALING PLUG 10X16 RD - Closing cap

1400284

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

Closing cap, for threads pluggable, color: red

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QPD W3PE2,5 6-10 M25 0,5 BK - Panel feed-through

1423975

https://www.phoenixcontact.com/us/products/1423975

Panel feed-through, product family: QPD, connection method: Single wires (Welded-on)/ IDC connection, number of positions: 3+PE, M25, Pin, 1 mm^2 ... 2.5 mm^2, 690 V, 20 A, PA, black, with QUICKON nut, coding: coded, external cable diameter: 6 mm ... 10 mm, 2.5 mm^2, wires cut flat at the end, cable length: 0.5 m

QPD W3PE2,5 6-10 M25 1,0 BK - Panel feed-through

1423974

https://www.phoenixcontact.com/us/products/1423974

Panel feed-through, product family: QPD, connection method: Single wires (Welded-on)/ IDC connection, number of positions: 3+PE, M25, Pin, 1 mm^2 ... 2.5 mm^2, 690 V, 20 A, PA, black, with QUICKON nut, coding: coded, external cable diameter: 6 mm ... 10 mm, 2.5 mm^2, wires cut flat at the end, cable length: 1 m

QPD C3PE2,5 1X6-10 BK - Conductor connector

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QPD W3PE2,5 6-10 M25 FC BK - Panel feed-through

1423976

https://www.phoenixcontact.com/us/products/1423976

Panel feed-through, product family: QPD, connection method: Spade connection/ IDC connection, number of positions: 3+PE, M25, Pin, 1 mm^2 ... 2.5 mm^2, 690 V, 20 A, PA, black, with QUICKON nut, coding: coded, external cable diameter: 6 mm ... 10 mm, 2.5 mm^2

QPD W3PE2,5 6-10 M25 DT BK - Panel feed-through

1423977

https://www.phoenixcontact.com/us/products/1423977

Panel feed-through, product family: QPD, connection method: Push-in connection/ IDC connection, number of positions: 3+PE, M25, Pin, 1 mm^2 ... 2.5 mm^2, 400 V, 20 A, PA, black, with QUICKON nut, coding: coded, external cable diameter: 6 mm ... 10 mm, 2.5 mm^2

QPD C3PE2,5 1X6-10 BK - Conductor connector

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QPD C3PE2,5 2X6-10 BK - Conductor connector

1423989

https://www.phoenixcontact.com/us/products/1423989

Conductor connector, product family: QPD, connection method: IDC connection, number of positions: 3+PE, 1 mm^2 ... 2.5 mm^2, 690 V, 20 A, PA, black, With two QUICKON nuts, coding: Coding profile, external cable diameter: 6 mm ... 10 mm

QPD T3PE2,5 2X6-10 BK - T distributor

1424047

https://www.phoenixcontact.com/us/products/1424047

T distributor, product family: QPD, connection method: IDC connection, number of positions: 3+PE, 1 mm^2 ... 2.5 mm^2, 690 V, 20 A, PA, black, With two QUICKON nuts, coding: Coding profile, external cable diameter: 6 mm ... 10 mm

QPD C3PE2,5 1X6-10 BK - Conductor connector

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QPD T3PE2,5 3X6-10 BK - T distributor

1424045

https://www.phoenixcontact.com/us/products/1424045

T distributor, product family: QPD, connection method: IDC connection, number of positions: 3+PE, 1 mm^2 ... 2.5 mm^2, 690 V, 20 A, PA, black, With three QUICKON nuts, coding: Coding profile, external cable diameter: 6 mm ... 10 mm

QPD H3PE2,5 4X6-10 BK - H distributor

1423971

https://www.phoenixcontact.com/us/products/1423971

H distributor, product family: QPD, connection method: IDC connection, number of positions: 3+PE, 1 mm^2 ... 2.5 mm^2, 690 V, 20 A, PA, black, with four QUICKON nuts, coding: Coding profile, external cable diameter: 6 mm ... 10 mm

QPD C3PE2,5 1X6-10 BK - Conductor connector

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QSS 22 - Socket wrench

1670206

https://www.phoenixcontact.com/us/products/1670206

Allen wrench, for loosening and fastening the QUICKON union nut, WAF 22 mm

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