

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



1039561

<https://www.phoenixcontact.com/us/products/1039561>

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QUICKON connector, black, 4+PE-pos., 1.0 mm² ... 2.5 mm²/690 V/20 A, with QUICKON nut, for cables with 9 mm ... 16 mm 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 maintenance – the connectors enable fast device replacement and preassembled cables simplify startup

Commercial data

Item number	1039561
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF50
Product key	BF6BCB
Catalog page	Page 487 (C-2-2019)
GTIN	4055626596273
Weight per piece (including packing)	72.3 g
Weight per piece (excluding packing)	72.3 g
Customs tariff number	85366990
Country of origin	PL

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Technical data

Product properties

Type	QPD 5x2,5
Product type	Installation 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

Insulation characteristics

Overvoltage category	III
Degree of pollution	3

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	< 4 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	20 A

Connection data

Connection technology

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

Conductor connection

Conductor cross section flexibel	1 mm ² ... 2.5 mm ²
Conductor cross section solid	1 mm ² ... 2.5 mm ²
Connection cross section AWG	16 ... 14
Wrench size, union nut	27 mm
Tightening torque, union nut	10 Nm

Dimensions

Width	34.6 mm
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Height	39.1 mm
Length	87.8 mm
Diameter	39.1 mm
Wrench size, union nut	27 mm

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

Mechanical properties

Mechanical data

Insertion/withdrawal cycles	max. 50
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Environmental and real-life conditions

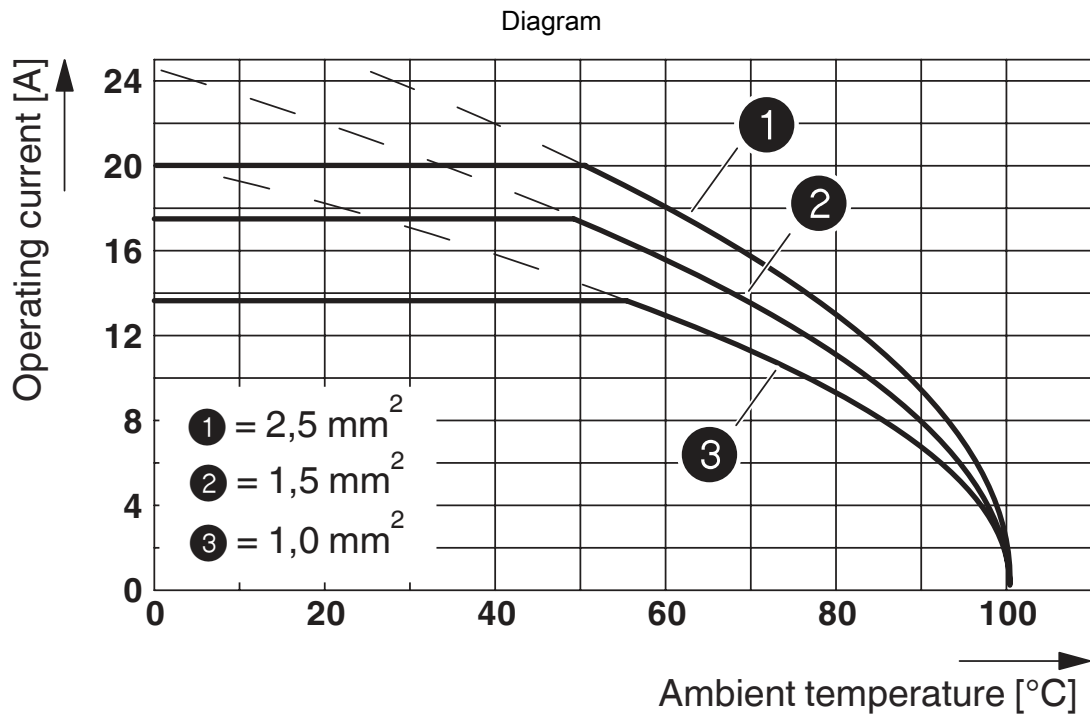
Ambient conditions

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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Drawings



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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1039561>



IECEE CB Scheme
Approval ID: DE1-65875



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



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	10 A	-	- 14



cUL Listed
Approval ID: E468743

	Nominal voltage 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
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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 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 mm² ... 2.5 mm², 690 V, 20 A, black, with QUICKON nut, external cable diameter: 9 mm ... 16 mm, assembly thread: M20, Single wires (welded-on), 2.5 mm², wires cut flat at the end, cable length: 0.5 m

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

1403733

<https://www.phoenixcontact.com/us/products/1403733>



Panel feed-through, QUICKON connection, number of positions: 4+PE, 1 mm² ... 2.5 mm², 690 V, 20 A, black, with QUICKON nut, external cable diameter: 9 mm ... 16 mm, assembly thread: M20, Single wires (welded-on), 2.5 mm², wires cut flat at the end, cable length: 1 m

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

1403735

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Panel feed-through, QUICKON connection, number of positions: 4+PE, 1 mm² ... 2.5 mm², 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)

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

1582561

<https://www.phoenixcontact.com/us/products/1582561>



Panel feed-through, QUICKON connection, number of positions: 4+PE, 1 mm² ... 2.5 mm², 690 V, 20 A, black, with QUICKON nut, external cable diameter: 9 mm ... 16 mm, assembly thread: M25, Single wires (welded-on), 2.5 mm², wires cut flat at the end, cable length: 0.5 m

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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 mm² ... 2.5 mm², 690 V, 20 A, black, with QUICKON nut, external cable diameter: 9 mm ... 16 mm, assembly thread: M25, Single wires (welded-on), 2.5 mm², wires cut flat at the end, cable length: 1 m

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

1582563

<https://www.phoenixcontact.com/us/products/1582563>



QUICKON panel feed-through, black, 4+PE-pos. 1.0 mm² ... 2.5 mm²/690 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

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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 mm² ... 2.5 mm²/690 V/20 A, with QUICKON nut, for cable diameter of 9 mm ... 16 mm, with push-in spring-cage connection.

QPD C 4PE2,5 1X9-16 BK - Conductor connectors

1403831

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QUICKON cable connector, black, 4+PE-pos., 1.0 mm² ... 2.5 mm² / 690 V / 20 A, for 9 mm ... 16 mm cable diameter.

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

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

1403836

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QUICKON cable connector, black, 4+PE-pos., 1.0 mm² ... 2.5 mm² / 690 V / 20 A, for 9 mm ... 16 mm cable diameter.

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

1405404

<https://www.phoenixcontact.com/us/products/1405404>



QUICKON T-distributor, black, 4+PE-pos., 1.0 mm² ... 2.5 mm²/690 V/20 A, for cable diameter of 9 mm ... 16 mm, with two QUICKON nuts

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

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

1405402

<https://www.phoenixcontact.com/us/products/1405402>



QUICKON T-distributor, black, 4+PE-pos., 1.0 mm² ... 2.5 mm²/690 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

<https://www.phoenixcontact.com/us/products/1406369>



QUICKON H-distributor, black, 4 pos. +PE, 1.0 mm² ... 2.5 mm² / 690 V / 20 A, for cable diameters of 9 mm ... 16 mm, with a sealing bolt.

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

1403737

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Panel feed-through, QUICKON connection, number of positions: 4+PE, 1 mm² ... 2.5 mm², 690 V, 20 A, black, without QUICKON nut, assembly thread: M20, Single wires (welded-on), 2.5 mm², wires cut flat at the end, cable length: 0.5 m

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

1403739

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Panel feed-through, QUICKON connection, number of positions: 4+PE, 1 mm² ... 2.5 mm², 690 V, 20 A, black, without QUICKON nut, assembly thread: M20, Single wires (welded-on), 2.5 mm², wires cut flat at the end, cable length: 1 m

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

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

1403741

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Panel feed-through, QUICKON connection, number of positions: 4+PE, 1 mm² ... 2.5 mm², 690 V, 15 A, black, without QUICKON nut, assembly thread: M20, Spade connection (For slip-on sleeves according to DIN 46247-2)

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

1582565

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Panel feed-through, QUICKON connection, number of positions: 4+PE, 1 mm² ... 2.5 mm², 690 V, 20 A, black, without QUICKON nut, assembly thread: M25, Single wires (welded-on), 2.5 mm², wires cut flat at the end, cable length: 0.5 m

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

1582566

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Panel feed-through, QUICKON connection, number of positions: 4+PE, 1 mm² ... 2.5 mm², 690 V, 20 A, black, without QUICKON nut, assembly thread: M25, Single wires (welded-on), 2.5 mm², wires cut flat at the end, cable length: 1 m

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

1582567

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Panel feed-through, QUICKON connection, number of positions: 4+PE, 1 mm² ... 2.5 mm², 690 V, 20 A, black, without QUICKON nut, assembly thread: M25, Spade connection (For slip-on sleeves according to DIN 46247-2)

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QPD H 4PE2,5 BK - H distributor

1406370

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QUICKON H-distributor, black, 4+PE pos., 690 V/20 A, without QUICKON nut

Accessories

CP-QPD 5X2,5 - Coding profile

1404530

<https://www.phoenixcontact.com/us/products/1404530>



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 mm² QPD QUICKON connection, IP50.

QPD PSK 5X2,5 - Protective cap

1404529

<https://www.phoenixcontact.com/us/products/1404529>



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

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SEALING PLUG 14X22 RD - Closing cap

1400270

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

Closing cap, for threads pluggable, color: red



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

1403782

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QUICKON connector, black, 4+PE-pos., 1.0 mm² ... 2.5 mm²/690 V/20 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

<https://www.phoenixcontact.com/us/products/1459647>



QUICKON nut, black, 4+PE-pos., 1.0 mm² ... 2.5 mm²/690 V/20 A, for cables with 9 mm ... 16 mm diameter.

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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