

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



1039561

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Connector, product family: QPD, connection method: IDC connection, number of positions: 4+PE, 1 mm² ... 2.5 mm², 690 V, 20 A, PA, black, with QUICKON nut, external cable diameter: 9 mm ... 16 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 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	*****
Product key	AF6BCB
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

Product type	Installation connector
Product family	QPD
Type	QPD 5x2,5
Number of positions	5
Connection profile	4+PE
Position marking	1, 2, 3, N, PE
Number of connections	10
Number of connections per position	1

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 method On the field side	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
Tightening torque Union nut	10 Nm
Wrench size Union nut	27 mm

Dimensions

Width	34.6 mm
Height	39.1 mm

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Length	87.8 mm
Diameter	39.1 mm

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 ... 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

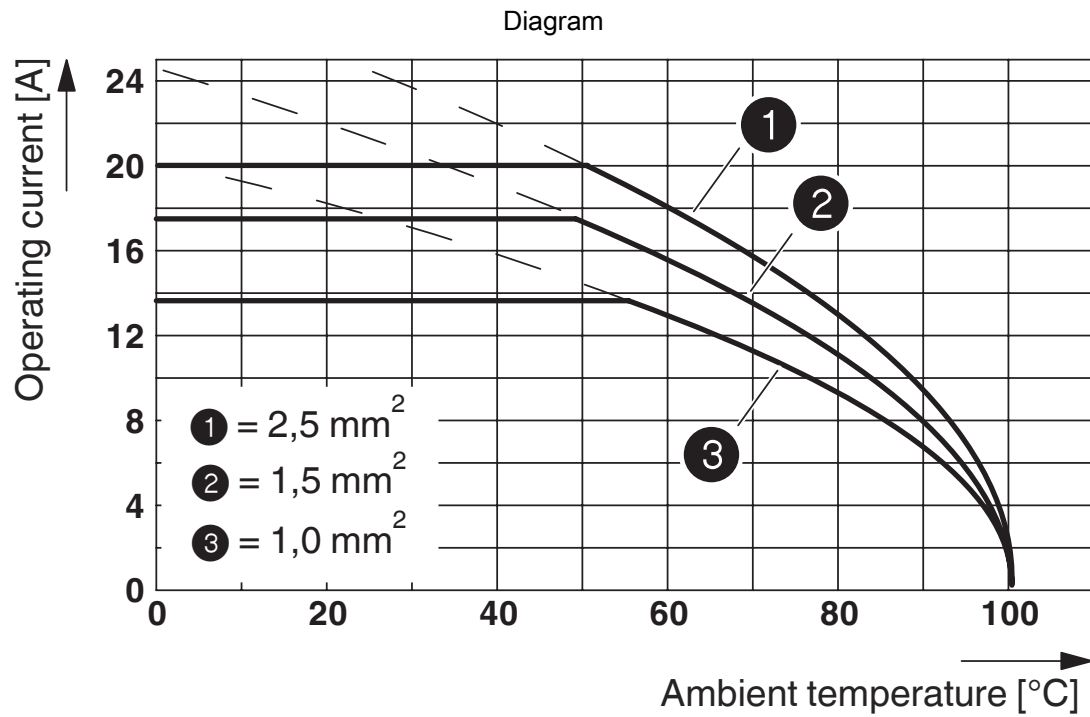
Insertion/withdrawal cycles	max. 50
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Environmental and real-life conditions

Ambient conditions

Degree of protection	IP66
	IP68 (2 m / 24 h)
	IP69K
	Touch-proof when not plugged in (IP2X)
Impact strength	IK07
Ambient temperature (operation)	-40 °C ... 100 °C
Temperature when conductor connected	-5 °C ... 50 °C
Ambient temperature (storage/transport)	-40 °C ... 100 °C

Drawings



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Approvals

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



IECEE CB Scheme

Approval ID: DE1-65875



VDE approval of drawings

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

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Panel feed-through, product family: QPD, connection method: Single wires (Welded-on)/ IDC connection, number of positions: 4+PE, M20, Pin, 1 mm² ... 2.5 mm², 690 V, 20 A, PA, black, with QUICKON nut, coding: coded, external cable diameter: 9 mm ... 16 mm, 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

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Panel feed-through, product family: QPD, connection method: Single wires (Welded-on)/ IDC connection, number of positions: 4+PE, M20, Pin, 1 mm² ... 2.5 mm², 690 V, 20 A, PA, black, with QUICKON nut, coding: coded, external cable diameter: 9 mm ... 16 mm, 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

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Panel feed-through, product family: QPD, connection method: Spade connection (For slip-on sleeves according to DIN 46247-2)/ IDC connection, number of positions: 4+PE, M20, Pin, 1 mm² ... 2.5 mm², 690 V, 20 A, PA, black, with QUICKON nut, coding: coded, external cable diameter: 9 mm ... 16 mm

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

1582561

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



Panel feed-through, product family: QPD, connection method: Single wires (Welded-on), number of positions: 4+PE, M25, Pin, 1 mm² ... 2.5 mm², 690 V, 20 A, PA, black, with QUICKON nut, coding: coded, external cable diameter: 9 mm ... 16 mm, 2.5 mm², wires cut flat at the end, cable length: 0.5 m

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

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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, product family: QPD, connection method: Single wires (Welded-on), number of positions: 4+PE, M25, Pin, 1 mm² ... 2.5 mm², 690 V, 20 A, PA, black, with QUICKON nut, coding: coded, external cable diameter: 9 mm . . . 16 mm, 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

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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

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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 connector

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 connector

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/in/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/in/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/in/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.

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

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

1403737

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Panel feed-through, product family: QPD, connection method: Single wires (Welded-on), number of positions: 4+PE, M20, Pin, 1 mm² ... 2.5 mm², 690 V, 20 A, PA, black, without QUICKON nut, coding: coded, 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, product family: QPD, connection method: Single wires (Welded-on), number of positions: 4+PE, M20, Pin, 1 mm² ... 2.5 mm², 690 V, 20 A, PA, black, without QUICKON nut, coding: coded, 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, product family: QPD, connection method: Spade connection (For slip-on sleeves according to DIN 46247-2), number of positions: 4+PE, M20, Pin, 1 mm² ... 2.5 mm², 690 V, 20 A, PA, black, without QUICKON nut, coding: coded

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

1582565

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Panel feed-through, product family: QPD, connection method: Single wires (Welded-on), number of positions: 4+PE, M25, Pin, 1 mm² ... 2.5 mm², 690 V, 20 A, PA, black, without QUICKON nut, coding: coded, 2.5 mm², wires cut flat at the end, cable length: 0.5 m

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

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

1582566

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Panel feed-through, product family: QPD, connection method: Single wires (Welded-on), number of positions: 4+PE, M25, Pin, 1 mm² ... 2.5 mm², 690 V, 20 A, PA, black, without QUICKON nut, coding: coded, 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, product family: QPD, connection method: Spade connection (For slip-on sleeves according to DIN 46247-2), number of positions: 4+PE, M25, Pin, 1 mm² ... 2.5 mm², 690 V, 20 A, PA, black, without QUICKON nut, coding: coded

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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/in/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

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



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

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SEALING PLUG 14X22 RD - Sealing plug

1400270

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

Sealing plug, for threads pluggable, color: red



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

1403782

<https://www.phoenixcontact.com/in/products/1403782>



Connector, product family: QPD, connection method: IDC connection, number of positions: 4+PE, 1 mm² ... 2.5 mm², 690 V, 20 A, PA, black, with QUICKON nut, external cable diameter: 9 mm ... 16 mm

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

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

1459647

<https://www.phoenixcontact.com/in/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/in/products/1670646>



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

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