

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



1039564

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

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Connector, product family: QPD, connection method: IDC connection, number of positions: 4+PE, 2.5 mm<sup>2</sup> ... 6 mm<sup>2</sup>, 690 V, 40 A, PA, black, with QUICKON nut, external cable diameter: 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 maintenance – the connectors enable fast device replacement and preassembled cables simplify startup

## Commercial data

Item number	1039564
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF50
Product key	BF6BCC
Catalog page	Page 493 (C-2-2019)
GTIN	4055626597102
Weight per piece (including packing)	103.5 g
Weight per piece (excluding packing)	22.22 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 5x6,0
Number of positions	5
Connection profile	4+PE
Position marking	1, 2, 3, N, PE
Number of connections	5
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	40 A
Contact resistance	< 4 mΩ
Rated voltage (III/3)	690 V
Nominal voltage $U_N$	690 V
Nominal current $I_N$	40 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	2.5 mm <sup>2</sup> ... 6 mm <sup>2</sup>
Conductor cross section solid	2.5 mm <sup>2</sup> ... 6 mm <sup>2</sup>
Connection cross section AWG	14 ... 10
Tightening torque Union nut	15 Nm

### Dimensions

Width	39.6 mm
Height	44.1 mm
Length	97.5 mm
Diameter	44.1 mm

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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 / rubber / TPE

## 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

## Mechanical properties

### Mechanical data

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

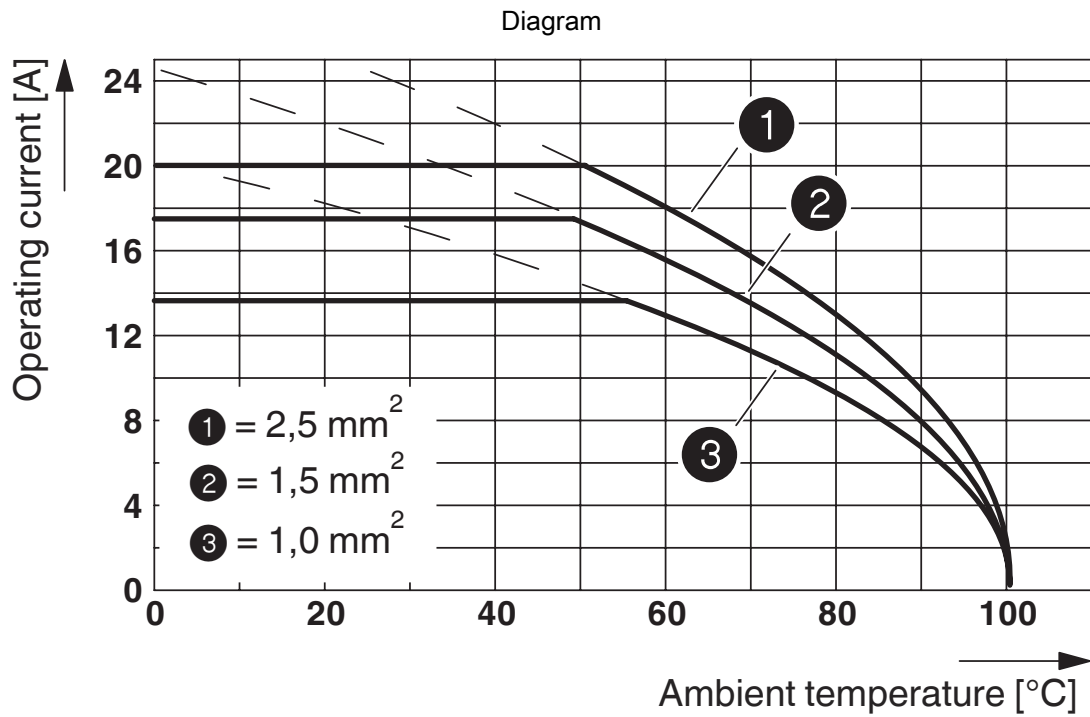
### Ambient conditions

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/1039564>



**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 $\text{mm}^2$
	600 V	20 A	-	- 12



**cUL Listed**  
Approval ID: E468743

	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
	600 V	20 A	- 12	-

**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

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

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## Mandatory accessories

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

1410392

<https://www.phoenixcontact.com/us/products/1410392>



QUICKON panel feed-through, 4+PE-pos., 2.5 mm<sup>2</sup> ... 6.0 mm<sup>2</sup>/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 mm<sup>2</sup> 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

<https://www.phoenixcontact.com/us/products/1410393>



QUICKON panel feed-through, 4+PE-pos., 2.5 mm<sup>2</sup> ... 6.0 mm<sup>2</sup>/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 mm<sup>2</sup> cable wires, 1.0 m long, cut flat at the end.



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

1410415

<https://www.phoenixcontact.com/us/products/1410415>



QUICKON cable connector, with a QUICKON nut, black, 4+PE-pos., 2.5 mm<sup>2</sup> ... 6.0 mm<sup>2</sup>/690 V/40 A, for cable diameter of 9 mm ... 14 mm.

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

1410410

<https://www.phoenixcontact.com/us/products/1410410>



QUICKON cable connector, black, 4+PE-pos., 2.5 mm<sup>2</sup> ... 6.0 mm<sup>2</sup>/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

<https://www.phoenixcontact.com/us/products/1411416>



QUICKON T-distributor, black, 4+PE-pos., 2.5 mm<sup>2</sup> ... 6.0 mm<sup>2</sup>/690 V/40 A, for cable diameter of 9 mm ... 14 mm, with two QUICKON nuts

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

1411414

<https://www.phoenixcontact.com/us/products/1411414>



QUICKON T-distributor, black, 4+PE-pos., 2.5 mm<sup>2</sup> ... 6.0 mm<sup>2</sup>/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

<https://www.phoenixcontact.com/us/products/1411422>



QUICKON H-distributor, black, 4+PE-pos., 2.5 mm<sup>2</sup> ... 6.0 mm<sup>2</sup>/690 V/40 A, for cable diameter of 9 mm ... 14 mm, with a sealing bolt.

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

1410396

<https://www.phoenixcontact.com/us/products/1410396>



QUICKON panel feed-through, 4+PE-pos., 2.5 mm<sup>2</sup> ... 6.0 mm<sup>2</sup>/690 V/40 A, without QUICKON nut, black, M25 connection thread with 5 welded-on 6.0 mm<sup>2</sup> cable wires, 0.5 m long, cut flat at the end.

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

1410397

<https://www.phoenixcontact.com/us/products/1410397>



QUICKON panel feed-through, 4+PE-pos., 2.5 mm<sup>2</sup> ... 6.0 mm<sup>2</sup>/690 V/40 A, without QUICKON nut, black, M25 connection thread with 5 welded-on 6.0 mm<sup>2</sup> cable wires, 1.0 m long, cut flat at the end.

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## QPD H 4PE6,0 BK - H distributor

1411426

<https://www.phoenixcontact.com/us/products/1411426>



QUICKON H-distributor, black, 4+PE-pos., 2.5 mm<sup>2</sup> ... 6.0 mm<sup>2</sup>/690 V/40 A, without QUICKON nut.

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## Accessories

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## 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

<https://www.phoenixcontact.com/us/products/1411403>



Protective cap, black plastic, for 5 x 2.5 mm<sup>2</sup> QPD connector, IP50.

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## QPD PSK 5X6,0 - Protective cap

1411404

<https://www.phoenixcontact.com/us/products/1411404>



Protective cap, transparent plastic, for 5x 6.0 mm<sup>2</sup> QPD QUICKON connection, IP50.

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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

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## 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 mm<sup>2</sup> ... 6 mm<sup>2</sup>, 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

<https://www.phoenixcontact.com/us/products/1410409>



QUICKON nut, black, 4+PE-pos., 2.5 mm<sup>2</sup> ... 6.0 mm<sup>2</sup>/690 V/40 A, for cables with a diameter of 9 mm ... 14 mm.

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