

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



1039561

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

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



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	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

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



1039561

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

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

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



1039561

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

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 / 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 ... 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

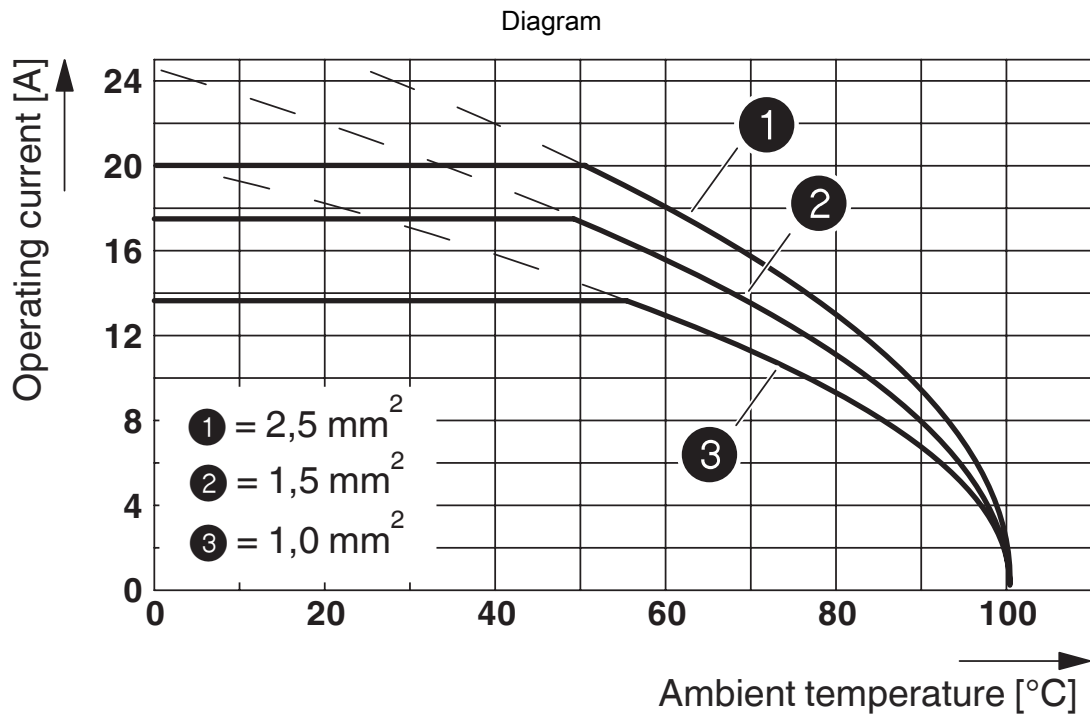
Insertion/withdrawal cycles	max. 50
-----------------------------	---------

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



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



1039561

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

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

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



1039561

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

Classifications

ECLASS

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

ETIM

ETIM 9.0	EC002560
----------	----------

UNSPSC

UNSPSC 21.0	39121400
-------------	----------

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



1039561

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

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%
-------------------------------------	----------------------------

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



1039561

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

Mandatory accessories

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

1403731

<https://www.phoenixcontact.com/us/products/1403731>



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

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



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

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

1039561

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



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

1403735

<https://www.phoenixcontact.com/us/products/1403735>



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, 15 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/us/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

1039561

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



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

1582562

<https://www.phoenixcontact.com/us/products/1582562>



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

<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

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

1039561

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



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

<https://www.phoenixcontact.com/us/products/1403831>



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

1039561

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



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

1403836

<https://www.phoenixcontact.com/us/products/1403836>



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

1039561

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



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.

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

1039561

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



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

1403737

<https://www.phoenixcontact.com/us/products/1403737>



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

<https://www.phoenixcontact.com/us/products/1403739>



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

1039561

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



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

1403741

<https://www.phoenixcontact.com/us/products/1403741>



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, 15 A, PA, black, without QUICKON nut, coding: coded

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

1582565

<https://www.phoenixcontact.com/us/products/1582565>



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

1039561

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



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

1582566

<https://www.phoenixcontact.com/us/products/1582566>



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

<https://www.phoenixcontact.com/us/products/1582567>



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

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

1039561

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



QPD H 4PE2,5 BK - H distributor

1406370

<https://www.phoenixcontact.com/us/products/1406370>



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.

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

1039561

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

QPD QSK 5X2,5 - Protective cap

1404528

<https://www.phoenixcontact.com/us/products/1404528>



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.

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

1039561

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



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

<https://www.phoenixcontact.com/us/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

1039561

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



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

Phoenix Contact 2024 © - all rights reserved
<https://www.phoenixcontact.com>

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