

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, 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	AF6BCB
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 AC 690 V DC
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
-------	---------

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



1039561

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

Height	39.1 mm
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
Material Seal	NBR
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
-----------------------------	---------

Environmental and real-life conditions

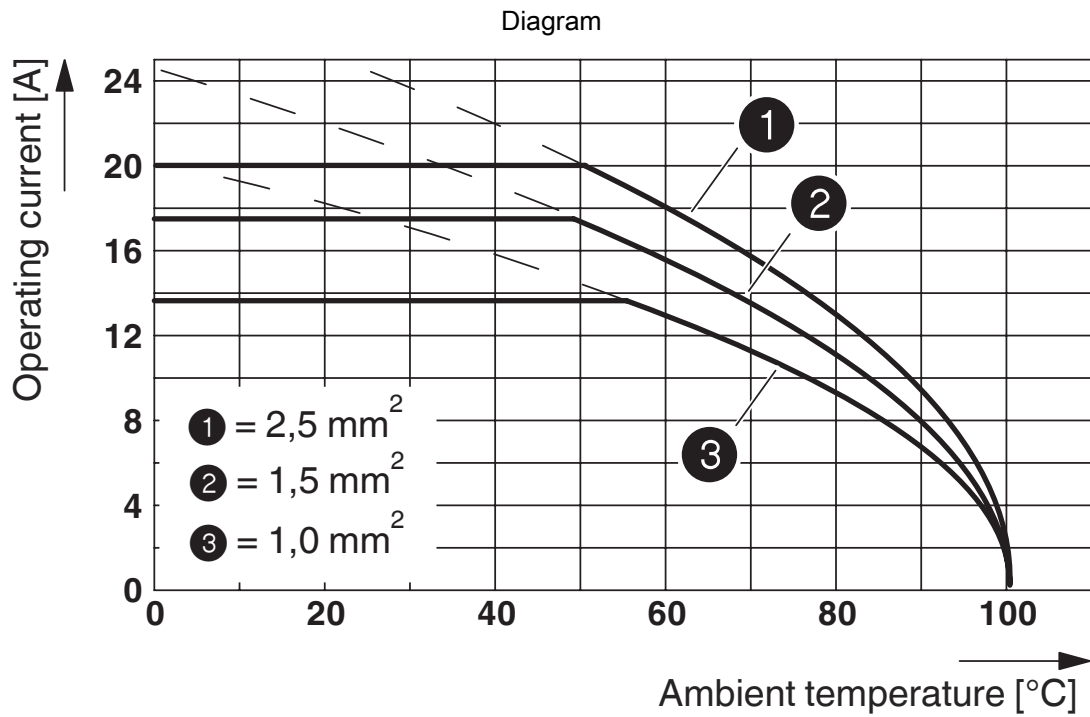
Ambient conditions

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

1039561

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

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



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
keine				
	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
keine				
	600 V	10 A	- 14	-



DNV GL
Approval ID: TAE00003J5

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



1039561

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

Classifications

ECLASS

ECLASS-13.0	27440605
ECLASS-15.0	27440605

ETIM

ETIM 10.0	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.)	Triphenyl phosphate(CAS: 115-86-6)
-------------------------------------	------------------------------------

EF3.1 Climate Change

CO2e kg	0.748 kg CO2e
---------	---------------

Phoenix Contact 2026 © - 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