

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

1403782

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



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 mm<sup>2</sup> ... 2.5 mm<sup>2</sup>, 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	1403782
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF50
Product key	BF6BCB
Catalog page	Page 481 (C-2-2017)
GTIN	4046356667135
Weight per piece (including packing)	73.2 g
Weight per piece (excluding packing)	72.425 g
Customs tariff number	85366990
Country of origin	PL

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

1403782

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



## 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	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 <sup>2</sup> ... 2.5 mm <sup>2</sup>
Conductor cross section solid	1 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Connection cross section AWG	16 ... 14
Tightening torque Union nut	10 Nm
Wrench size Union nut	27 mm

### Dimensions

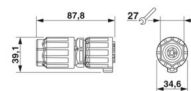
# QPD P 4PE2,5 9-16 BK - Connector

1403782

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



## Dimensional drawing



Width	34.6 mm
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
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

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



1403782

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

## Classifications

### ECLASS

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

### ETIM

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

### UNSPSC

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

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



1403782

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

## Environmental product compliance

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

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](mailto:info@phoenixcon.com)