

QPD P 3PE2,5 6-10 BK BK - Connector



1582637

<https://www.phoenixcontact.com/us/products/1582637>

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, QUICKON connection, number of positions: 3+PE, 1 mm² ... 2.5 mm², 690 V, 20 A, black, external cable diameter: 6 mm ... 10 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	1582637
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF50
Product key	BF6BBB
Catalog page	Page 467 (C-4-2015)
GTIN	4046356618038
Weight per piece (including packing)	48 g
Weight per piece (excluding packing)	38.22 g
Customs tariff number	85366990
Country of origin	DE

QPD P 3PE2,5 6-10 BK BK - Connector



1582637

<https://www.phoenixcontact.com/us/products/1582637>

Technical data

Product properties

Type	QPD 3PEx2,5
Product type	Installation connector
Product family	QPD
Number of positions	4
Connection profile	3+PE
Position marking	1, 2, 3, PE

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	< 3 mΩ
rated voltage (II/2)	1000 V
rated voltage (III/2)	1000 V
Rated voltage (III/3)	690 V
Nominal current I_N	20 A

Connection data

Connection technology

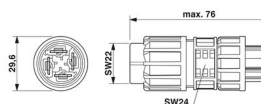
Connection technology	QUICKON connection
Connection system, internal	IDC connection
Frequency of connections between conductors of the same cross section	max. 10

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
Wrench size, union nut	22 mm
Tightening torque, union nut	5 Nm

Dimensions

Dimensional drawing



QPD P 3PE2,5 6-10 BK BK - Connector



1582637

<https://www.phoenixcontact.com/us/products/1582637>

Width	29.6 mm
Height	29.6 mm
Length	76 mm
Diameter	29.6 mm
Wrench size, union nut	22 mm

Material specifications

Material	PA
----------	----

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 ()	6 mm ... 10 mm
Wire diameter including insulation	2 mm ... 3.8 mm
Position marking	1, 2, 3, PE
Material wire insulation	PVC / PE

Mechanical properties

Mechanical data

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

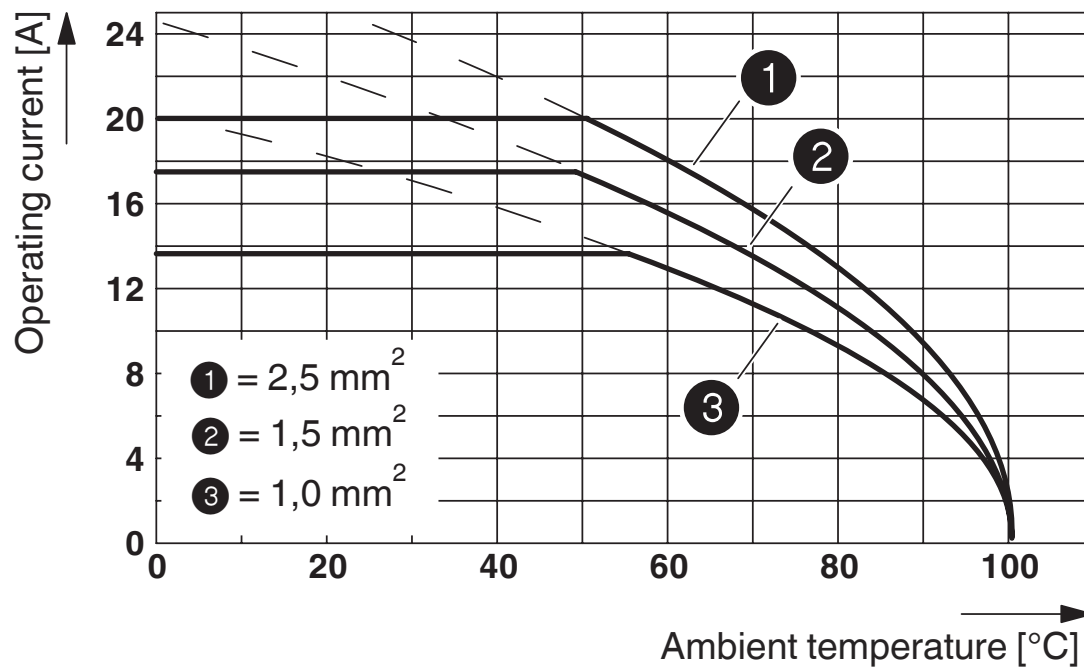
Environmental and real-life conditions

Ambient conditions

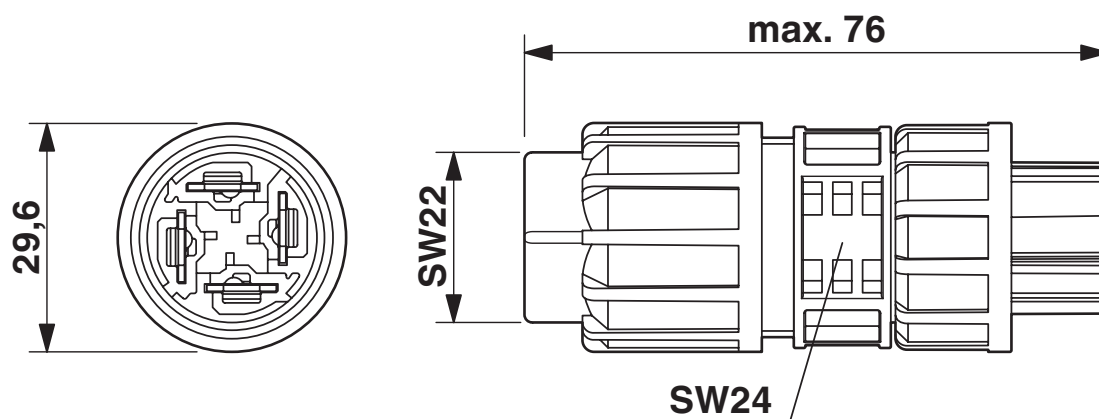
Degree of protection	IP66
	IP68 (2 m / 24 h)
	IP69K
Ambient temperature (operation)	-40 °C ... 100 °C
Temperature when conductor connected	-5 °C ... 50 °C
Ambient temperature (storage/transport)	-40 °C ... 80 °C

Drawings

Diagram



Dimensional drawing



Dimensional drawing: connector, 2.5 mm²

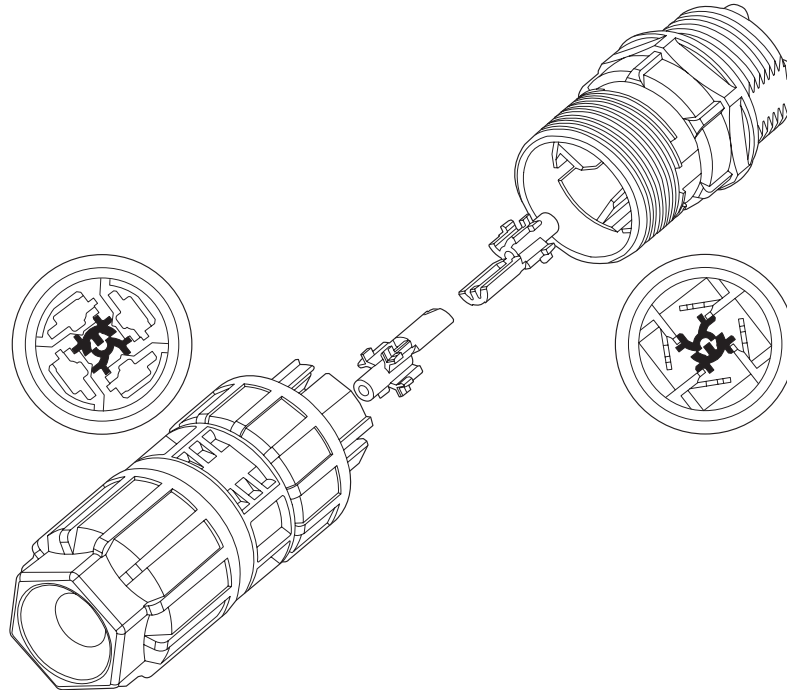
QPD P 3PE2,5 6-10 BK BK - Connector

1582637

<https://www.phoenixcontact.com/us/products/1582637>



Schematic diagram



Coding of the QUICKON plug-in connection

QPD P 3PE2,5 6-10 BK BK - Connector



1582637

<https://www.phoenixcontact.com/us/products/1582637>

Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1582637>



IECEE CB Scheme

Approval ID: DE1-58228



EAC

Approval ID: RU C-DE.AI30.B.01102



DNV GL

Approval ID: TAE00003J5



EAC

Approval ID: RU C-DE.BL08.B.00511



VDE Zeichengenehmigung

Approval ID: 40029149

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
Only flexible conductors	400 V	20 A	-	1.5 - 2.5
Only rigid conductors	690 V	20 A	-	1.5 - 2.5



UL Listed

Approval ID: FILE E 221474



cUL Listed

Approval ID: FILE E 221474



cUL Listed

Approval ID: FILE E 468743

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	600 V	10 A	-	-



UL Listed

Approval ID: FILE E 468743

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	600 V	10 A	-	-

QPD P 3PE2,5 6-10 BK BK - Connector

1582637

<https://www.phoenixcontact.com/us/products/1582637>



QPD P 3PE2,5 6-10 BK BK - Connector



1582637

<https://www.phoenixcontact.com/us/products/1582637>

Classifications

ECLASS

ECLASS-11.0	27440602
ECLASS-12.0	27440602
ECLASS-13.0	27440605

ETIM

ETIM 8.0	EC002566
----------	----------

UNSPSC

UNSPSC 21.0	39121500
-------------	----------

QPD P 3PE2,5 6-10 BK BK - Connector



1582637

<https://www.phoenixcontact.com/us/products/1582637>

Environmental product compliance

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

QPD P 3PE2,5 6-10 BK BK - Connector



1582637

<https://www.phoenixcontact.com/us/products/1582637>

Accessories

EMLP (13X9)R - Label

0819453

<https://www.phoenixcontact.com/us/products/0819453>

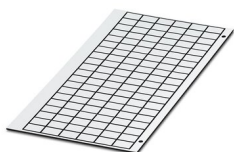


Label, Roll, white, unlabeled, can be labeled with: THERMOMARK E.300 (D)/600 (D), THERMOMARK ROLL 2.0, THERMOMARK ROLL, THERMOMARK ROLL X1, THERMOMARK ROLLMaster 300/600, THERMOMARK X1.2, mounting type: adhesive, lettering field size: 13 x 9 mm, Number of individual labels: 500

GPE 13X 9 WH - Engraving material

0806932

<https://www.phoenixcontact.com/us/products/0806932>



Engraving material, Sheet, white, unlabeled, can be labeled with: PLOTMARK, ENGRAVING UNIT, CMS-P1-PLOTTER, P1 ENGRAVING UNIT, mounting type: adhesive, lettering field size: 13 x 9 mm, Number of individual labels: 120

QPD P 3PE2,5 6-10 BK BK - Connector

1582637

<https://www.phoenixcontact.com/us/products/1582637>



QPD PSK 2,5 - Protective cap

1582151

<https://www.phoenixcontact.com/us/products/1582151>



Protective cap made of transparent plastic for QPD connectors 4x 2.5 mm², IP50.

CP-QPD - Coding profile

1582459

<https://www.phoenixcontact.com/us/products/1582459>



Coding profile red, for pushing into the QUICKON dome and connector, can be positioned in 90° steps.

QPD P 3PE2,5 6-10 BK BK - Connector



1582637

<https://www.phoenixcontact.com/us/products/1582637>

KV-DI-PG16-1XASI - Seal

1582462

<https://www.phoenixcontact.com/us/products/1582462>



Seal for one AS-i line, 17.2 x 9 mm, from NBR, black, for IP65/67 degree of protection

KV-DI-PG16-2XASI - Seal

1582464

<https://www.phoenixcontact.com/us/products/1582464>



Seal for two AS-i lines, 17.2 x 9 mm, from NBR, black, for IP65/67 degree of protection

QPD P 3PE2,5 6-10 BK BK - Connector

1582637

<https://www.phoenixcontact.com/us/products/1582637>



QSS 22 - Socket wrench

1670206

<https://www.phoenixcontact.com/us/products/1670206>



Allen wrench, for loosening and fastening the QUICKON union nut, WAF 22 mm

Phoenix Contact 2023 © - 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