

QPD P 2PE1,5 4-9 BK - Connector

1414705

<https://www.phoenixcontact.com/us/products/1414705>



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Connector, product family: QPD, connection method: IDC connection, number of positions: 2+PE, 0.5 mm² ... 1.5 mm², 690 V, 17.5 A, PA, black, with QUICKON nut, coding: Coding profile, external cable diameter: 5 mm ... 7 mm and 7 mm ... 9.5 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	1414705
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF50
Product key	BF6BAA
Catalog page	Page 479 (C-2-2019)
GTIN	4055626031675
Weight per piece (including packing)	39.5 g
Weight per piece (excluding packing)	39.5 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 3x1,5
Number of positions	3
Connection profile	2+PE
Position marking	1, 2, PE
Number of connections	3
Number of connections per position	1
Coding	Coding profile

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	17.5 A
Contact resistance	< 3 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	17.5 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	0.5 mm ² ... 1.5 mm ²
Conductor cross section solid	0.5 mm ² ... 1.5 mm ²
Connection cross section AWG	20 ... 16
Tightening torque Union nut	8 Nm
Tightening torque Locking nut	5 Nm

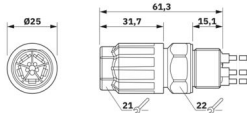
Dimensions

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Dimensional drawing	
Width	25 mm
Height	25 mm
Length	70.8 mm
Diameter	25 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/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	5 mm ... 7 mm
	7 mm ... 9.5 mm
Wire diameter including insulation	1.6 mm ... 3 mm
Position marking	1, 2, 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

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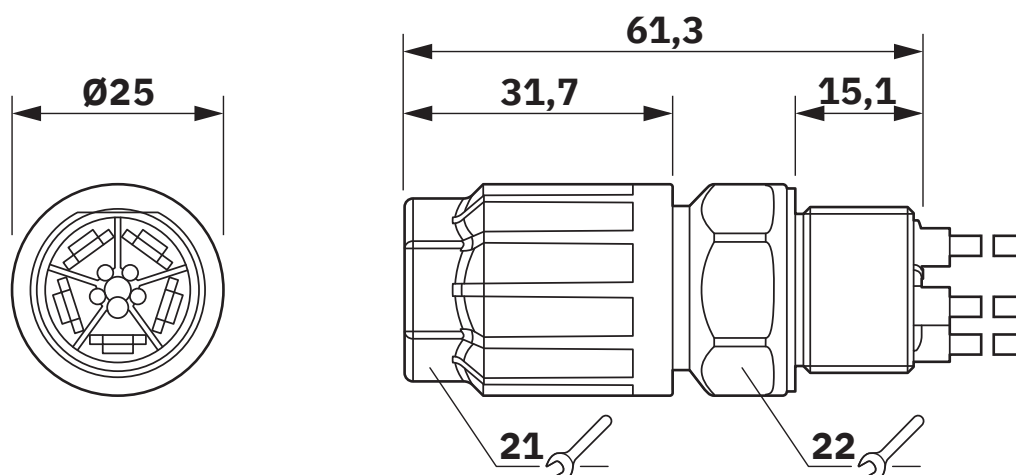
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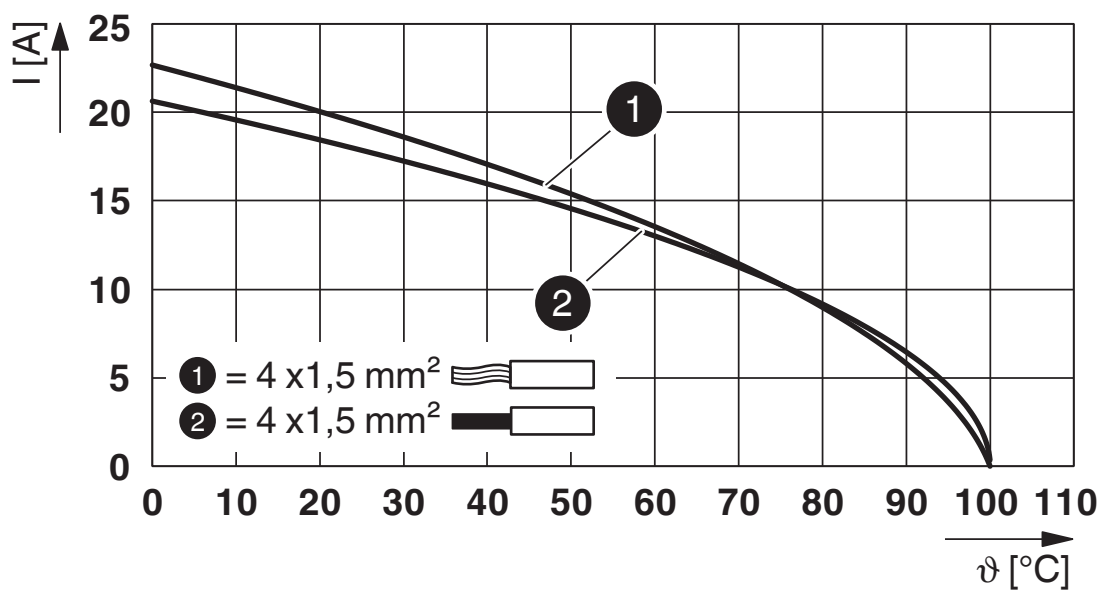


Drawings

Dimensional drawing



Diagram



Derating diagram

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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1414705>



IECEE CB Scheme
Approval ID: DE1-65875



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



DNV GL
Approval ID: TAE00003J5



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	8 A	-	- 16

	cUL Listed Approval ID: E468743			
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	600 V	8 A	- 16	-

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

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%

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Mandatory accessories

QPD W 2PE1,5 4-9 M20 0,5 BK - Panel feed-through

1414684

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Panel feed-through, product family: QPD, connection method: Single wires/ IDC connection, number of positions: 2+PE, M20, Pin, 0.5 mm² ... 1.5 mm², 690 V, 17.5 A, PA, black, with QUICKON nut, coding: Coding profile, external cable diameter: 5 mm ... 7 mm and 7 mm ... 9.5 mm, 1.5 mm², cable length: 0.5 m

QPD W 2PE1,5 4-9 M20 1,0 BK - Panel feed-through

1414685

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Panel feed-through, product family: QPD, connection method: Single wires/ IDC connection, number of positions: 2+PE, M20, Pin, 0.5 mm² ... 1.5 mm², 690 V, 17.5 A, PA, black, with QUICKON nut, coding: Coding profile, external cable diameter: 5 mm ... 7 mm and 7 mm ... 9.5 mm, 1.5 mm², cable length: 1 m

QPD P 2PE1,5 4-9 BK - Connector

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QPD W 2PE1,5 4-9 M20 FC BK - Panel feed-through

1414686

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Panel feed-through, product family: QPD, connection method: Spade connection (For slip-on sleeves according to DIN 46247-2)/ IDC connection, number of positions: 2+PE, M20, Pin, 0.5 mm² ... 1.5 mm², 690 V, 15 A, PA, black, with QUICKON nut, coding: Coding profile, external cable diameter: 5 mm ... 7 mm and 7 mm ... 9.5 mm, 1.5 mm²

QPD C 2PE1,5 1X4-9 BK - Conductor connector

1414699

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Conductor connector, product family: QPD, connection method: IDC connection, number of positions: 2+PE, 0.5 mm² ... 1.5 mm², 690 V, 17.5 A, PA, black, with one QUICKON nut, coding: Coding profile, external cable diameter: 5 mm ... 7 mm and 7 mm ... 9.5 mm

QPD P 2PE1,5 4-9 BK - Connector

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QPD C 2PE1,5 2X4-9 BK - Conductor connector

1414700

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Conductor connector, product family: QPD, connection method: IDC connection, number of positions: 2+PE, 0.5 mm² ... 1.5 mm², 690 V, 17.5 A, PA, black, With two QUICKON nuts, coding: Coding profile, external cable diameter: 5 mm ... 7 mm and 7 mm ... 9.5 mm

QPD T 2PE1,5 2X4-9 BK - T distributor

1414711

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T distributor, product family: QPD, connection method: IDC connection, number of positions: 2+PE, 0.5 mm² ... 1.5 mm², 690 V, 17.5 A, PA, black, With two QUICKON nuts, coding: Coding profile, external cable diameter: 5 mm ... 7 mm and 7 mm ... 9.5 mm

QPD P 2PE1,5 4-9 BK - Connector

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QPD T 2PE1,5 3X4-9 BK - T distributor

1414712

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T distributor, product family: QPD, connection method: IDC connection, number of positions: 2+PE, 0.5 mm² ... 1.5 mm², 690 V, 17.5 A, PA, black, With three QUICKON nuts, coding: Coding profile, external cable diameter: 5 mm ... 7 mm and 7 mm ... 9.5 mm

QPD H 2PE1,5 4X4-9 BK - H distributor

1414719

<https://www.phoenixcontact.com/us/products/1414719>



H distributor, product family: QPD, connection method: IDC connection, number of positions: 2+PE, 0.5 mm² ... 1.5 mm², 690 V, 17.5 A, PA, black, with four QUICKON nuts, coding: Coding profile, external cable diameter: 5 mm ... 7 mm and 7 mm ... 9.5 mm, with a sealing bolt

QPD P 2PE1,5 4-9 BK - Connector

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QPD W 2PE1,5 M20 0,5 BK - Panel feed-through

1414690

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Panel feed-through, product family: QPD, connection method: Single wires (Welded-on), number of positions: 2+PE, M20, 0.5 mm² ... 1.5 mm², 690 V, 17.5 A, PA, black, without QUICKON nut, coding: Coding profile, 1.5 mm², wires cut flat at the end, cable length: 0.5 m

QPD W 2PE1,5 M20 1,0 BK - Panel feed-through

1414691

<https://www.phoenixcontact.com/us/products/1414691>



Panel feed-through, product family: QPD, connection method: Single wires, number of positions: 2+PE, M20, 0.5 mm² ... 1.5 mm², 690 V, 17.5 A, PA, black, without QUICKON nut, coding: Coding profile, 1.5 mm², cable length: 1 m

QPD P 2PE1,5 4-9 BK - Connector

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QPD W 2PE1,5 M20 FC BK - Panel feed-through

1414692

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Panel feed-through, product family: QPD, connection method: Spade connection (For slip-on sleeves according to DIN 46247-2), number of positions: 2+PE, M20, 0.5 mm² ... 1.5 mm², 690 V, 15 A, PA, black, without QUICKON nut, coding: Coding profile, 1.5 mm²

QPD H 2PE1,5 BK - H distributor

1414721

<https://www.phoenixcontact.com/us/products/1414721>



H distributor, product family: QPD, connection method: IDC connection/ QUICKON fast connection, number of positions: 2+PE, 0.5 mm² ... 1.5 mm², 690 V, 17.5 A, PA, black, without QUICKON nut, coding: Coding profile

Accessories

QPD P 2PE1,5 4-9 BK - Connector

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CP-QPD 3/4X1,5 - Coding profile

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

SEALING PLUG 7X16 RD - Closing cap

1400255

<https://www.phoenixcontact.com/us/products/1400255>



Closing cap, color: red

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QPD PSK 3/4X1,5 - Protective cap

1414724

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Protective cap plastic, for QPD-QUICKON connection 3(4)x 1.5 mm², IP50



QPD QSK 3/4X1,5 - Protective cap

1414723

<https://www.phoenixcontact.com/us/products/1414723>

Protective cap plastic, for QPD-QUICKON connection 3(4) x 1.5 mm², IP50



QPD P 2PE1,5 4-9 BK - Connector

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QPD N 2PE1,5 4-9 BK - Nut

1415099

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Nut, product family: QPD, connection method: IDC connection, number of positions: 2+PE, 0.5 mm² ... 1.5 mm², 690 V, 17.5 A, PA, black, external cable diameter: 5 mm ... 7 mm and 7 mm ... 9.5 mm

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

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