

QPD P 4PE1,5 5-10 BK - Connector



1414749

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Connector, product family: QPD, connection method: IDC connection, number of positions: 4+PE, 0.5 mm² ... 1.5 mm², 690 V, 17.5 A, PA, black, with QUICKON nut, coding: Coding profile, 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	1414749
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF50
Product key	BF6BCA
Catalog page	Page 479 (C-2-2019)
GTIN	4055626033587
Weight per piece (including packing)	49.7 g
Weight per piece (excluding packing)	47.4 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 5x1,5
Number of positions	5
Connection profile	4+PE
Position marking	1, 2, 3, N, PE
Number of connections	5
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

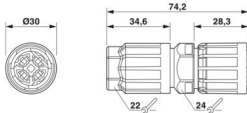
Dimensions

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Dimensional drawing	
Width	30 mm
Height	30 mm
Length	74.2 mm
Diameter	30 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	6 mm ... 10 mm
Wire diameter including insulation	1.6 mm ... 3 mm
Position marking	1, 2, 3, N, PE
Material wire insulation	PVC/PE/TPE/rubber

Mechanical properties

Mechanical data

Insertion/withdrawal cycles	max. 50
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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

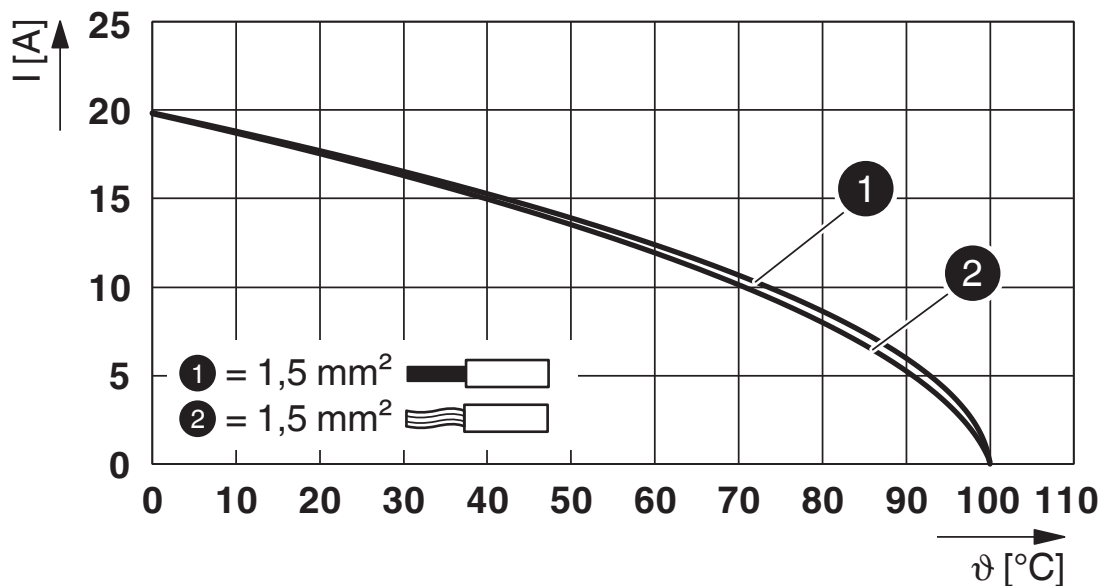
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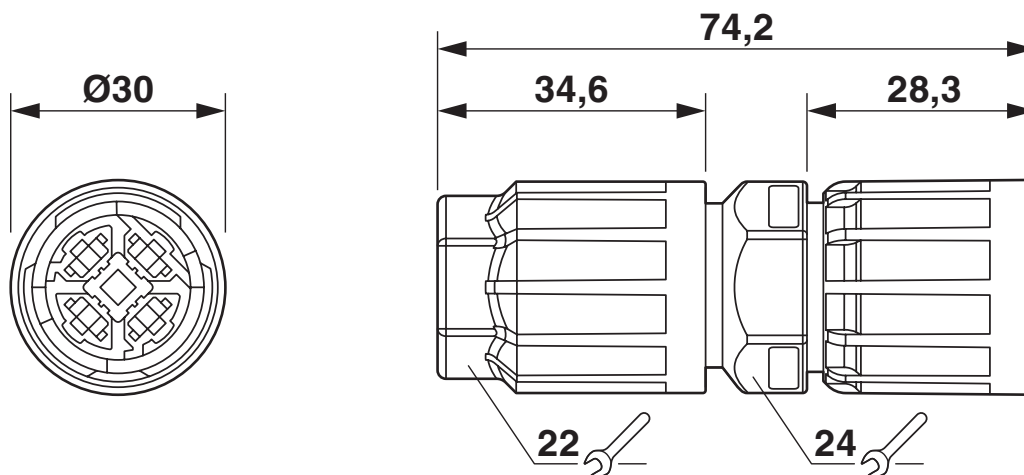
Drawings

Diagram



Derating diagram

Dimensional drawing



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Approvals

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IECEE CB Scheme

Approval ID: DE1-65875



DNV GL

Approval ID: TAE00003J5



VDE approval of drawings

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

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cULus Listed

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Classifications

ECLASS

ECLASS-11.0	27440605
ECLASS-13.0	27440605
ECLASS-12.0	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
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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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