

# QPD C 4PE1,5 1X9-14 BK - Conductor connector

1414741

<https://www.phoenixcontact.com/us/products/1414741>



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Conductor connector, product family: QPD, connection method: IDC connection, number of positions: 4+PE, 0.5 mm<sup>2</sup> ... 1.5 mm<sup>2</sup>, 690 V, 17.5 A, PA, black, with one QUICKON nut, coding: Coding profile, external cable diameter: 10 mm ... 14 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 and safe - with the cable connector, you can repair or extend cables quickly, in combination with the connector as well as the coupling connection

## Commercial data

Item number	1414741
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF50
Product key	BF6CCA
Catalog page	Page 475 (C-2-2019)
GTIN	4055626033563
Weight per piece (including packing)	46.2 g
Weight per piece (excluding packing)	46.2 g
Customs tariff number	85366990
Country of origin	PL

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## Technical data

### Product properties

Product type	Cable 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 per position	1
Coding	Coding profile

### Data management status

Article revision	03
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### Insulation characteristics

Overvoltage category	III
Degree of pollution	3

### Dimensions

Dimensional drawing	
Width	30 mm
Height	30 mm
Length	79.4 mm
Diameter	30 mm

### Connection data

#### Connection technology

Frequency of connections between conductors of the same cross section	max. 10
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#### Conductor connection

Tightening torque	8 Nm
	5 Nm
Tightening torque Union nut	8 Nm
Tightening torque Locking nut	5 Nm

### Electrical properties

Rated surge voltage (II/2)	8 kV
Rated surge voltage (III/2)	8 kV
Rated surge voltage (III/3)	6 kV

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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

## Mechanical properties

### Mechanical data

Insertion/withdrawal cycles	max. 50
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## 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	10 mm ... 14 mm
Wire diameter including insulation	1.6 mm ... 3 mm
Position marking	1, 2, 3, N, PE
Halogen-free	yes

## Environmental and real-life conditions

### Ambient conditions

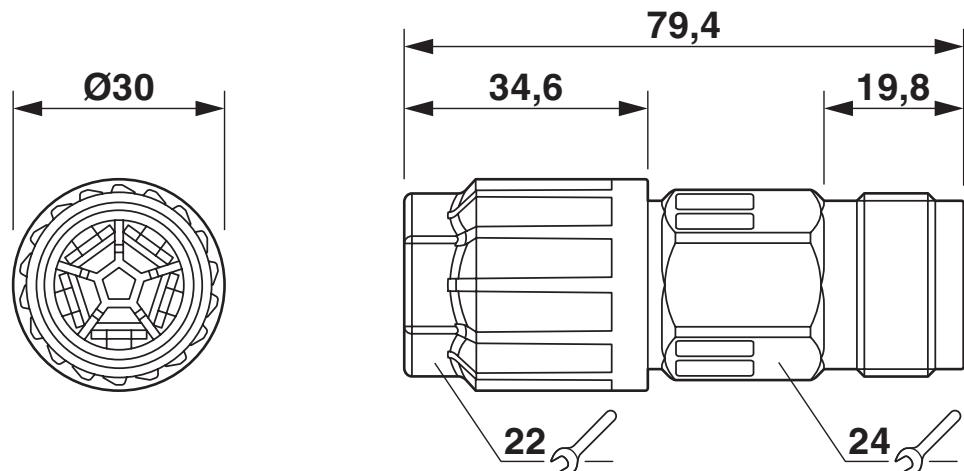
Degree of protection	IP66
	IP68
	IP69K
	Touch-proof when not plugged in (IP2X)
Impact strength	IK07
Ambient temperature (operation)	-40 °C ... 100 °C
Temperature when conductor connected	-5 °C ... 50 °C
Ambient temperature (storage/transport)	-40 °C ... 100 °C

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## Drawings

Dimensional drawing



Dimensional drawing

## Approvals

ⓘ To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1414741>



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

## 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
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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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