

Conductor connectors - QPD C 4PE6,0 2X12-20 BK - 1410412

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QUICKON cable connector, black, 4+PE-pos., 2.5 mm² ... 6.0 mm²/690 V/40 A, for cable diameter of 12 mm ... 20 mm.

Your advantages

- ✓ Innovative and time saving - QUICKON fast connection for time saving of up to 80 % for on-site connection
- ✓ Convenient: quick and easy assembly without special tools
- ✓ 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



Key Commercial Data

Packing unit	1 pc
GTIN	 4 046356 929523
GTIN	4046356929523

Technical data

General

Type	QPD 5x6,0
Color	black
Locking type	Screw locking
Connection method	QUICKON connection
	IDC connection
Number of positions	5
Wrench size, union nut	30 mm
Tightening torque, union nut	15 Nm
Conductor cross section flexible min.	2.5 mm ²
Conductor cross section flexible max.	6 mm ²

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Technical data

General

Conductor cross section solid min.	2.5 mm ²
Conductor cross section solid max.	6 mm ²
Conductor cross section AWG min.	14
Conductor cross section AWG max.	10

Cabel

Structure of individual litz in acc. with VDE 0295 / smallest wire diameter	VDE 0295 class 1 to 6/min. 0.15 mm
Wire insulation material	PVC/PE/TPE/rubber
Wire diameter including insulation	2.95 mm ... 5 mm
External cable diameter	12 mm ... 20 mm
Position marking	1, 2, 3, N, PE

Ambient conditions

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

Electrical characteristics

Nominal current I _N	40 A
Nominal voltage U _N	690 V AC
	690 V DC
Rated current	40 A
rated voltage (III/3)	690 V
rated voltage (III/2)	1000 V
rated voltage (II/2)	1000 V
Rated surge voltage (III/3)	6 kV
Rated surge voltage (III/2)	8 kV
Rated surge voltage (II/2)	8 kV

Mechanical characteristics

QUICKON connectability	max. 10
Insertion/withdrawal cycles	max. 50 (QUICKON connections max. 10)
Category of shock impact	IK07

Material data

Contact material	Cu
Contact surface material	silver-plated
Contact carrier material	PA
Insulating material	PA
Flammability rating according to UL 94	V0

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Technical data

Material data

Overvoltage category	III
Degree of pollution	3

Standards and Regulations

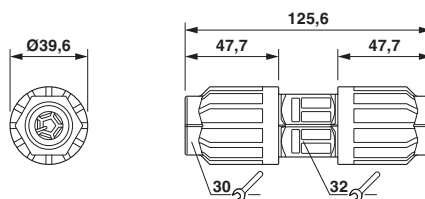
Category of shock impact	IK07
Flammability rating according to UL 94	V0

Environmental Product Compliance

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

Drawings

Dimensional drawing



Dimensional drawing of QPD C 5x6,0

Classifications

eCl@ss

eCl@ss 10.0.1	27440605
eCl@ss 11.0	27440605
eCl@ss 4.0	27140800
eCl@ss 4.1	27140800
eCl@ss 5.0	27143400
eCl@ss 5.1	27143400
eCl@ss 6.0	27143400
eCl@ss 7.0	27440605
eCl@ss 9.0	27440605

ETIM

ETIM 4.0	EC000516
ETIM 6.0	EC002560
ETIM 7.0	EC002560

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Classifications

UNSPSC

UNSPSC 13.2	39121402
UNSPSC 18.0	39121402
UNSPSC 19.0	39121402
UNSPSC 20.0	39121402
UNSPSC 21.0	39121402

Approvals

Approvals

Approvals

EAC / EAC / DNV GL / IECEE CB Scheme / VDE Zeichengenehmigung / UL Listed / cUL Listed / cULus Listed

Ex Approvals

Approval details

EAC		RU C- DE.AI30.B.01102
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EAC		RU C- DE.BL08.B.00511
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DNV GL		https://approvalfinder.dnvgl.com/	TAE00003J5
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IECEE CB Scheme		http://www.iecee.org/	DE1-63296
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VDE Zeichengenehmigung		http://www2.vde.com/de/Institut/Online-Service/VDE-gepruefteProdukte/Seiten/Online-Suche.aspx	40029149
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Nominal voltage UN	690 V
Nominal current IN	40 A
mm ² /AWG/kcmil	2.5-6

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Approvals

UL Listed		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	E468743
Nominal voltage UN		600 V	
Nominal current IN		20 A	
mm ² /AWG/kcmil		12	

cUL Listed		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	E468743
Nominal voltage UN		600 V	
Nominal current IN		20 A	
mm ² /AWG/kcmil		12	

cULus Listed	
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Accessories

Accessories

Coding element

Coding profile - CP-QPD 5X6,0 - 1411402



Coding profile, red, for insertion into the 5-pos. QUICKON dome and connector, can be positioned in 72° increments.

Protective cap

Protective cap - QPD QSK 5X6,0 - 1411403



Protective cap, black plastic, for 5 x 2.5 mm² QPD connector, IP50.

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Accessories

Protective cap - QPD QSK BK 5X6,0 FS - 1411400

Protective cap, plastic, for QUICKON connection, black, with retaining cord, IP68



Sealing plugs

Closing cap - SEALING PLUG 14X22 RD - 1400270



Closing cap, material: PA, for threads pluggable, color: red

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