

Connector - QPD P 4PE2,5 6-11 BK - 1403784

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QUICKON connector, black, 4+PE-pos., 1.0 mm² ... 2.5 mm²/690 V/20 A, with QUICKON nut, for cables with 6 mm ... 11 mm diameter.

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 simplify startup thanks to pre-assembled cables



Key Commercial Data

Packing unit	1 pc
GTIN	 4 046356 667159
GTIN	4046356667159

Technical data

General

Type	QPD 5x2,5
Color	black
Locking type	Screw locking
Connection technology	QUICKON connection
Connection method	IDC connection
Number of positions	5
Connection profile	4+PE
Wrench size, union nut	27 mm
Tightening torque, union nut	10 Nm
Number of connections	5
Conductor cross section flexible min.	1 mm ²
Conductor cross section flexible max.	2.5 mm ²

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Technical data

General

Conductor cross section solid min.	1 mm ²
Conductor cross section solid max.	2.5 mm ²
Conductor cross section AWG min.	16
Conductor cross section AWG max.	14

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 mm ... 3.8 mm
External cable diameter	6 mm ... 11 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 ... 80 °C
Temperature when conductor connected	-5 °C ... 50 °C

Electrical characteristics

Nominal current I _N	20 A
Nominal voltage U _N	690 V AC
	690 V DC
Rated current	20 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
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

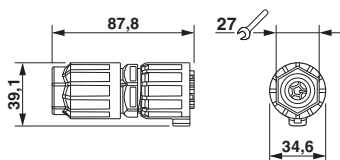
Category of shock impact	IK07
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Environmental Product Compliance

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

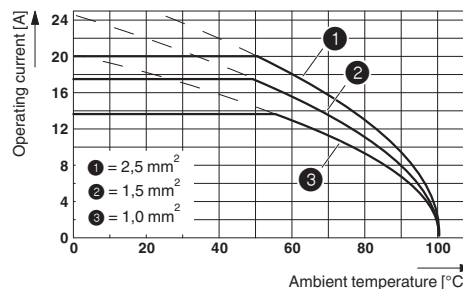
Drawings

Dimensional drawing



Dimensional drawing: connector, 2.5 mm²

Diagram



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 3.0	EC001121
ETIM 4.0	EC000516
ETIM 6.0	EC002560
ETIM 7.0	EC002560

UNSPSC

UNSPSC 6.01	30211923
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Classifications

UNSPSC

UNSPSC 7.0901	39121522
UNSPSC 11	39121522
UNSPSC 12.01	39121522
UNSPSC 13.2	39121522
UNSPSC 18.0	39121402
UNSPSC 19.0	39121402
UNSPSC 20.0	39121402
UNSPSC 21.0	39121402

Approvals

Approvals

Approvals

EAC / EAC / DNV GL / IECCEB Scheme / VDE Zeichengenehmigung / UL Listed / cUL Listed / cULus Listed

Ex Approvals

Approval details

EAC			RU C- DE.AI30.B.01102
EAC			RU C- DE.BL08.B.00511
DNV GL		https://approvalfinder.dnvgl.com/	TAE00003J5
IECEE CB Scheme		http://www.iecee.org/	DE1-63296

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Approvals

VDE Zeichengenehmigung		http://www2.vde.com/de/Institut/Online-Service/VDE-gepruefteProdukte/Seiten/Online-Suche.aspx	40029149
Nominal voltage UN	690 V		
Nominal current IN	20 A		
mm ² /AWG/kcmil	1-2.5		

UL Listed		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	E468743
Nominal voltage UN	600 V		
Nominal current IN	10 A		
mm ² /AWG/kcmil	14		

cUL Listed		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	E468743
Nominal voltage UN	600 V		
Nominal current IN	10 A		
mm ² /AWG/kcmil	14		

cULus Listed			
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Accessories

Accessories

Coding element

Coding profile - CP-QPD 5X2,5 - 1404530



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

Protective cap

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Accessories

Protective cap - QPD QSK 5X2,5 - 1404528



Protective cap, transparent plastic, for 5x 2.5 mm² QPD QUICKON connection, IP50.

Protective cap - QPD PSK 5X2,5 - 1404529



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

Socket spanner

Socket wrench - QSS 27 - 1670646



Allen wrench, for loosening and fastening the QUICKON union nut, WAF 27 mm

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