

## Nut - QPD N 4PE2,5 9-16 BK - 1459647

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QUICKON nut, black, 4+PE-pos., 1.0 mm<sup>2</sup> ... 2.5 mm<sup>2</sup>/690 V/20 A, for cables with 9 mm ... 16 mm diameter.

### 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

### Key Commercial Data

Packing unit	1 pc
GTIN	 4 046356 698641
GTIN	4046356698641

### Technical data

#### General

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

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## Technical data

### General

Conductor cross section solid max.	2.5 mm <sup>2</sup>
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	9 mm ... 16 mm
Position marking	1, 2, 3, N, PE

### Ambient conditions

Degree of protection	IP66
	IP68 (2 m / 24 h)
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 <sub>N</sub>	20 A
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)	8 kV
Rated surge voltage (III/2)	8 kV
Rated surge voltage (II/2)	8 kV

### Mechanical characteristics

QUICKON connectability	max. 10
Category of shock impact	IK07

### Material data

Contact carrier material	PA
Insulating material	PA
Flammability rating according to UL 94	V0
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
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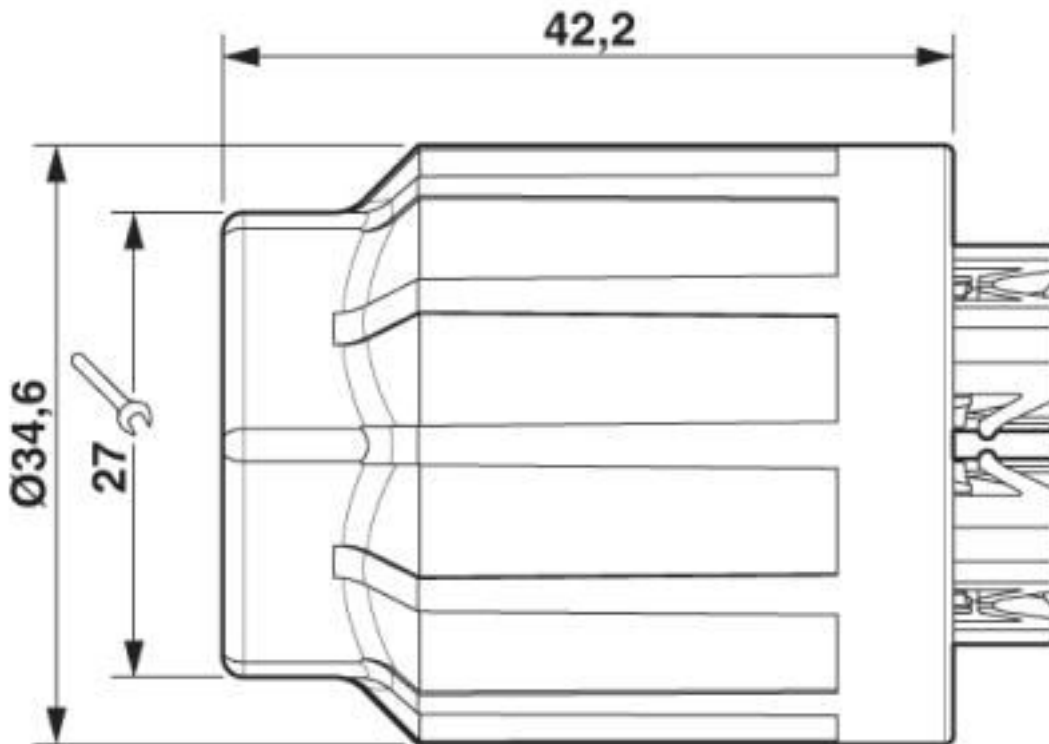
## Technical data

### Environmental Product Compliance

	No hazardous substances above threshold values
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## Drawings

Dimensional drawing



Dimensional drawing of the QPD nut 5x2,5

## Classifications

eCl@ss

eCl@ss 10.0.1	27440691
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 8.0	27440605
eCl@ss 9.0	27440691

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## Classifications

### ETIM

ETIM 3.0	EC002382
ETIM 4.0	EC000516
ETIM 5.0	EC002560
ETIM 6.0	EC002560
ETIM 7.0	EC002560

### UNSPSC

UNSPSC 6.01	30211923
UNSPSC 7.0901	39121522
UNSPSC 11	39121522
UNSPSC 12.01	39121522
UNSPSC 13.2	39121402
UNSPSC 18.0	39121421
UNSPSC 19.0	39121421
UNSPSC 20.0	39121421
UNSPSC 21.0	39121421

## Approvals

### Approvals

#### Approvals


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

#### Ex Approvals

### Approval details

EAC		RU C- DE.AI30.B.01102
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DNV GL		<a href="https://approvalfinder.dnvgl.com/">https://approvalfinder.dnvgl.com/</a>	TAE00003J5
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IECEE CB Scheme		<a href="http://www.iecee.org/">http://www.iecee.org/</a>	DE1-61559
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## Approvals

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

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

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

cULus Listed	
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## Accessories

### Accessories

#### Protective cap

Protective cap - QPD QSK 5X2,5 - 1404528



Protective cap, transparent plastic, for 5x 2.5 mm<sup>2</sup> QPD QUICKON connection, IP50.

#### Sealing plugs

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### Accessories

Closing cap - SEALING PLUG 14X22 RD - 1400270



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

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### Socket spanner

Socket wrench - QSS 27 - 1670646



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

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