

# QPD N2,5 6-10 BK - Nut

1423993

<https://www.phoenixcontact.com/us/products/1423993>



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Nut, connection method: IDC connection, 1 mm<sup>2</sup> ... 2.5 mm<sup>2</sup>, 690 V, 20 A, PA, black, 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

## Commercial data

Item number	1423993
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF50
Product key	AF6UCX
GTIN	4055626366104
Weight per piece (including packing)	22.5 g
Weight per piece (excluding packing)	21.9 g
Customs tariff number	85389099
Country of origin	PL

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## Technical data

### Product properties

Product type	Installation pressure nut
Product family	QPD
Type	QPD 4x2,5
Number of positions	4
Position marking	1, 2, 3, PE
Number of connections	10

### Insulation characteristics

Overvoltage category	III
Degree of pollution	3

### Electrical properties

Rated surge voltage (II/2)	6 kV
Rated surge voltage (III/2)	6 kV
Rated surge voltage (III/3)	6 kV
Rated current	20 A
rated voltage (II/2)	1000 V
rated voltage (III/2)	690 V
Rated voltage (III/3)	690 V
Nominal current $I_N$	20 A

### Connection data

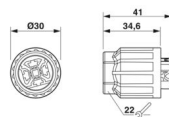
#### Connection technology

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	1 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Conductor cross-section solid	1 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Connection cross section AWG	16 ... 14
Tightening torque Union nut	10 Nm

### Dimensions

Dimensional drawing	
Width	30 mm
Height	30 mm
Length	40 mm

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Diameter	30 mm
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## Material specifications

Color	black (RAL 9005)
Material Housing	PA
Flammability rating according to UL 94	V0
Material wire insulation	PVC/PE/TPE/rubber
Contact carrier material	PA

## 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	2 mm ... 3.6 mm
Position marking	1, 2, 3, PE
Material wire insulation	PVC/PE/TPE/rubber

## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP66
	IP68 (2 m / 24 h)
	IP69K
Impact strength	IK07
Ambient temperature (operation)	-40 °C ... 100 °C
Temperature when conductor connected	-5 °C ... 50 °C
Ambient temperature (storage/transport)	-40 °C ... 80 °C

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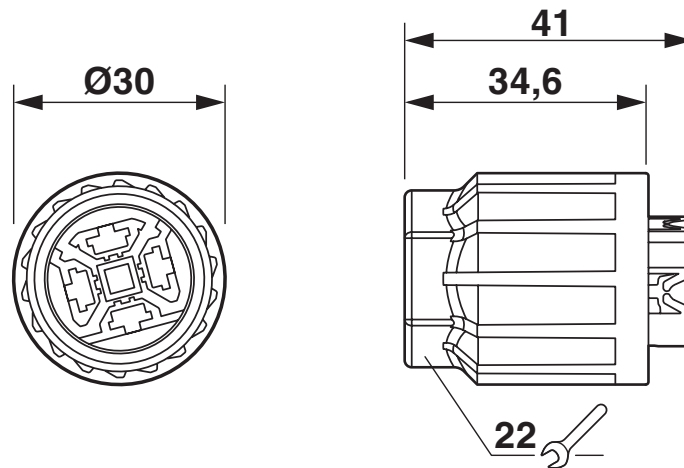
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## Drawings

Dimensional drawing



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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1423993>



**IECEE CB Scheme**  
Approval ID: DE1-65875



**VDE Zeichengenehmigung**  
Approval ID: 40029149

	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
keine				
Only flexible conductors	400 V	20 A	-	1.5 - 2.5
Only rigid conductors	690 V	20 A	-	1.5 - 2.5



**UL Listed**  
Approval ID: E468743

	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
keine				
	600 V	10 A	- 16	- 16



**cUL Listed**  
Approval ID: E468743

	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
keine				
	600 V	10 A	- 16	-



**DNV GL**  
Approval ID: TAE00003J5

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## Classifications

### ECLASS

ECLASS-13.0	27440691
ECLASS-15.0	27440691

### ETIM

ETIM 10.0	EC002863
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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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### EF3.1 Climate Change

CO2e kg	0.203 kg CO2e
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