

# QPD N 4PE6,0 9-14 BK - Nut

1410409

<https://www.phoenixcontact.com/us/products/1410409>



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QUICKON nut, black, 4+PE-pos., 2.5 mm<sup>2</sup> ... 6.0 mm<sup>2</sup>/690 V/40 A, for cables with a diameter of 9 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

## Commercial data

Item number	1410409
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF50
Product key	AF6UCX
GTIN	4046356929509
Weight per piece (including packing)	41.7 g
Weight per piece (excluding packing)	42 g
Customs tariff number	39269097
Country of origin	PL

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## Technical data

### Product properties

Product type	Installation pressure nut
Product family	QPD
Type	QPD 5x6,0
Number of positions	5
Connection profile	4+PE
Position marking	1, 2, 3, N, PE
Number of connections	10

### Insulation characteristics

Overvoltage category	III
Degree of pollution	3

### Electrical properties

Rated surge voltage (II/2)	8 kV
Rated surge voltage (III/2)	8 kV
Rated surge voltage (III/3)	8 kV
Rated current	40 A
rated voltage (II/2)	1000 V
rated voltage (III/2)	1000 V
Rated voltage (III/3)	690 V

### Connection data

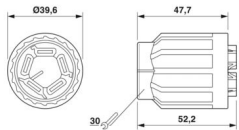
#### Connection technology

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	2.5 mm <sup>2</sup> ... 6 mm <sup>2</sup>
Conductor cross-section solid	2.5 mm <sup>2</sup> ... 6 mm <sup>2</sup>
Connection cross section AWG	14 ... 10
Tightening torque Union nut	15 Nm
Wrench size Union nut	30 mm

### Dimensions

Dimensional drawing	
Width	39.6 mm

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Height	39.6 mm
Length	47.7 mm

## 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	9 mm ... 14 mm
Wire diameter including insulation	2.95 mm ... 5 mm
Position marking	1, 2, 3, N, 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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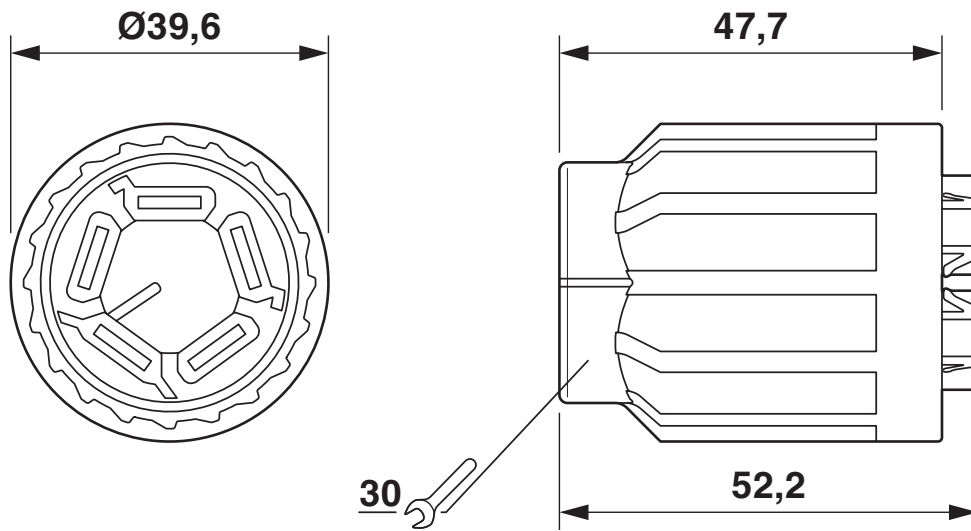
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## Drawings

Dimensional drawing



Dimensional drawing of QPD nut 5x6,0

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1410409>



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



**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 $\text{mm}^2$
keine				
	600 V	20 A	- 12	- 12



**cUL Listed**  
Approval ID: E468743

	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
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	600 V	20 A	- 12	-

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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	0.478 kg CO2e
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