QPD N 3PE1,5 4-9 BK - Nut

1415097

https://www.phoenixcontact.com/us/products/1415097

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Nut, connection method: IDC connection, number of positions: 3+PE, 0.5 mm^2 ... 1.5 mm^2, 690 V, 17.5 A, PA, black, external cable diameter: 5 mm ... 7 mm and 7 mm ... 9.5 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	1415097
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF50
Product key	AF6UCX
GTIN	4055626037608
Weight per piece (including packing)	18.7 g
Weight per piece (excluding packing)	18 g
Customs tariff number	85366990
Country of origin	PL

Technical data

Product properties

Product type	Installation pressure nut
Product family	QPD
Type	QPD 4x1,5
Number of positions	4
Connection profile	3+PE
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)	8 kV
Rated surge voltage (III/2)	8 kV
Rated surge voltage (III/3)	8 kV
Rated current	17.5 A
rated voltage (II/2)	1000 V
rated voltage (III/2)	1000 V
Rated voltage (III/3)	690 V
Nominal current I_N	17.5 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	0.5 mm² ... 1.5 mm²
Conductor cross-section solid	0.5 mm² ... 1.5 mm²
Connection cross section AWG	20 ... 16
Tightening torque Union nut	8 Nm

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	5 mm ... 7 mm
	7 mm ... 9.5 mm
Wire diameter including insulation	1.6 mm ... 3 mm
Position marking	1, 2, 3, PE
Material wire insulation	PVC/PE/TPE/rubber

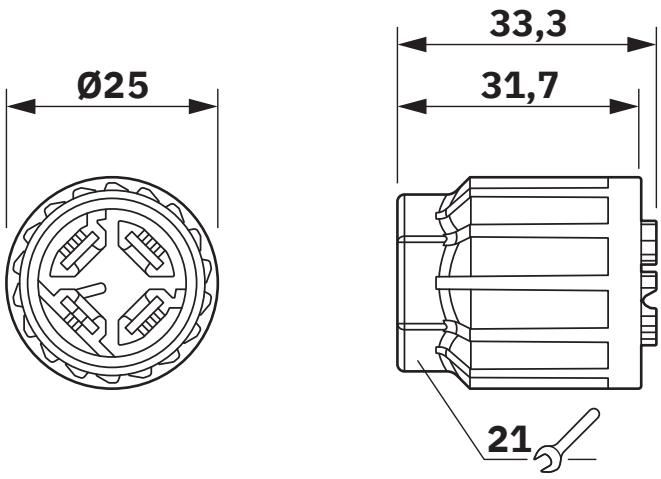
Environmental and real-life conditions

Ambient conditions

Degree of protection	IP66
	IP68 (2 m / 24 h)
	IP69K
	Touch-proof when not plugged in (IP2X)
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

Drawings

Dimensional drawing



Dimensional drawing of the QPD nut 5x2,5

Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1415097

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 mm^2
keine				
	600 V	8 A	- 16	-

cUL Listed
Approval ID: E468743

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
keine				
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Classifications

ECLASS

ECLASS-13.0	27440691
ECLASS-15.0	27440691

ETIM

ETIM 10.0	EC002863

UNSPSC

UNSPSC 21.0	39121400

Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions

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%

EF3.1 Climate Change

CO2e kg	0.308 kg CO2e

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