# QPD N 2PE1,5 4-9 BK - Nut

1415099

https://www.phoenixcontact.com/us/products/1415099

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Nut, connection method: IDC connection, number of positions: 2+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 | 1415099 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | BF50 |
| Product key | AF6UCX |
| GTIN | 4055626037639 |
| Weight per piece (including packing) | 18.8 g |
| Weight per piece (excluding packing) | 17.7 g |
| Customs tariff number | 85366990 |
| Country of origin | PL |

## Technical data

### Product properties

| | |
|---|---|
| Product type | Installation pressure nut |
| Product family | QPD |
| Type | QPD 3x1,5 |
| Number of positions | 3 |
| Connection profile | 2+PE |
| Position marking | 1, 2, 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 voltage $U_N$ | 690 V AC |
| | 690 V DC |
| 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, PE |
| Material wire insulation | PVC/PE/TPE/rubber |

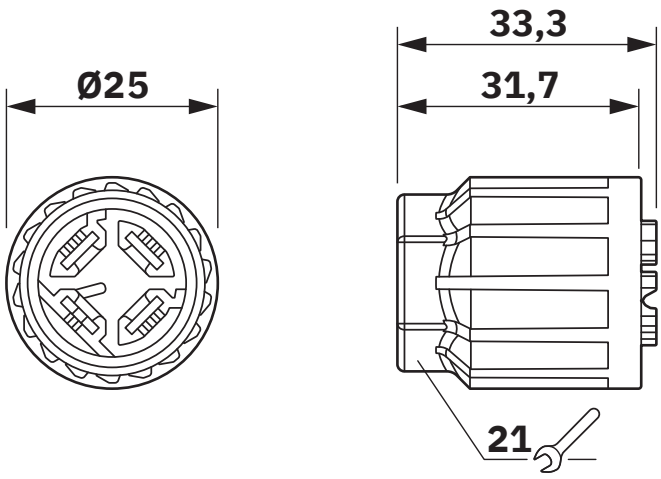
## Environmental and real-life conditions

### 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/1415099

**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 | | | | |
| | 600 V | 8 A | - 16 | - |

## 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 | 0.265 kg CO2e |


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