

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

1410409

<https://www.phoenixcontact.com/gb/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                            | BF6UCX              |
| Product key                          | BF6UCX              |
| Catalog page                         | Page 489 (C-2-2019) |
| 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                        |

### Data management status

|                  |    |
|------------------|----|
| Article revision | 01 |
|------------------|----|

### 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                                     |

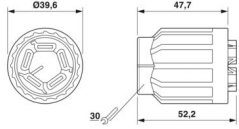
### Dimensions

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|                     |                                                                                    |
|---------------------|------------------------------------------------------------------------------------|
| Dimensional drawing |  |
| Width               | 39.6 mm                                                                            |
| 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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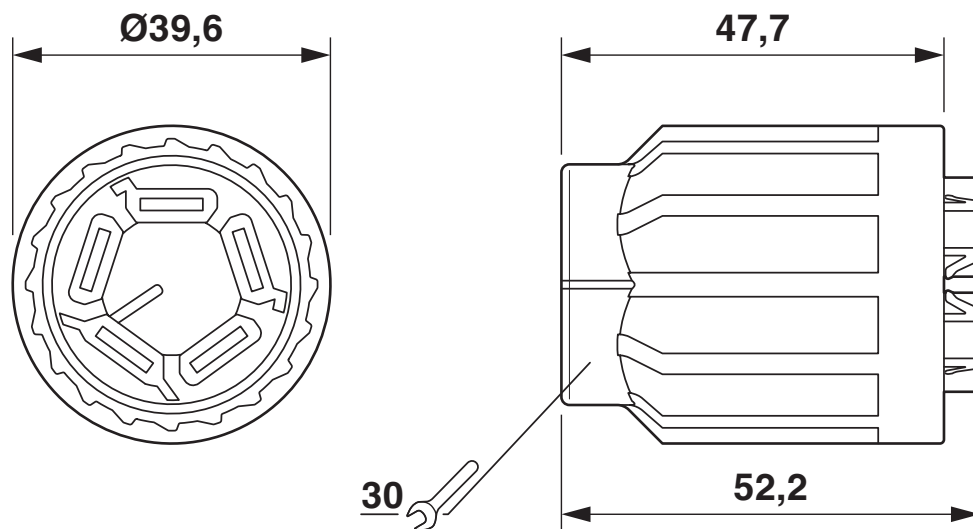
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## Drawings

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/gb/products/1410409>



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



**DNV GL**  
Approval ID: TAE00003J5



**VDE Zeichengenehmigung**  
Approval ID: 40029149

|                                                                                   |                                          |                       |                   |                             |
|-----------------------------------------------------------------------------------|------------------------------------------|-----------------------|-------------------|-----------------------------|
|  | <b>UL Listed</b><br>Approval ID: E468743 |                       |                   |                             |
|                                                                                   | Nominal voltage $U_N$                    | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
|                                                                                   | 600 V                                    | 20 A                  | -                 | - 12                        |

|                                                                                     |                                           |                       |                   |                             |
|-------------------------------------------------------------------------------------|-------------------------------------------|-----------------------|-------------------|-----------------------------|
|  | <b>cUL Listed</b><br>Approval ID: E468743 |                       |                   |                             |
|                                                                                     | Nominal voltage $U_N$                     | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
|                                                                                     | 600 V                                     | 20 A                  | - 12              | -                           |

**cULus Listed**

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-11.0 | 27440691 |
| ECLASS-13.0 | 27440691 |
| ECLASS-12.0 | 27440691 |

### ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | EC002863 |
|----------|----------|

### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 21.0 | 39121400 |
|-------------|----------|

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## 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%               |
| EF3.0 Climate Change                    |                                          |
| CO2e kg                                 | 0.478 kg CO2e                            |

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