

# QPD N2,5 9-14 BK - Nut



1423994

<https://www.phoenixcontact.com/no/products/1423994>

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Nut, product family: QPD, connection method: IDC connection, 1 mm<sup>2</sup> ... 2.5 mm<sup>2</sup>, 690 V, 20 A, PA, black, external cable diameter: 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                          | 1423994             |
| Packing unit                         | 1 pc                |
| Minimum order quantity               | 1 pc                |
| Sales key                            | 31BBF               |
| Product key                          | BF6UCX              |
| Catalog page                         | Page 481 (C-2-2019) |
| GTIN                                 | 4055626366111       |
| Weight per piece (including packing) | 21.3 g              |
| Weight per piece (excluding packing) | 20.5 g              |
| Customs tariff number                | 85366990            |
| Country of origin                    | PL                  |

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## Technical data

### Product properties

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

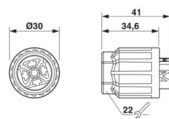
#### Connection technology

|                                                                       |                |
|-----------------------------------------------------------------------|----------------|
| 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 mm² ... 2.5 mm² |
| Conductor cross section solid    | 1 mm² ... 2.5 mm² |
| Connection cross section AWG     | 16 ... 14         |
| Tightening torque Union nut      | 7 Nm              |

### Dimensions

|                     |                                                                                      |
|---------------------|--------------------------------------------------------------------------------------|
| Dimensional drawing |  |
| Width               | 30 mm                                                                                |
| Height              | 30 mm                                                                                |
| Length              | 40 mm                                                                                |

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|          |       |
|----------|-------|
| Diameter | 30 mm |
|----------|-------|

## Material specifications

|                                        |                         |
|----------------------------------------|-------------------------|
| Color                                  | black (RAL 9005)        |
| Material Housing                       | PA                      |
| Flammability rating according to UL 94 | V0                      |
| Material wire insulation               | PVC / PE / rubber / TPE |
| 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 mm ... 3.6 mm                    |
| Position marking                                                            | 1, 2, 3, 4                         |
| Material wire insulation                                                    | PVC / PE / rubber / TPE            |

## Environmental and real-life conditions

### Ambient conditions

|                                         |                   |
|-----------------------------------------|-------------------|
| Degree of protection                    | IP66              |
|                                         | IP68 (2 m / 24 h) |
|                                         | IP69K             |
| 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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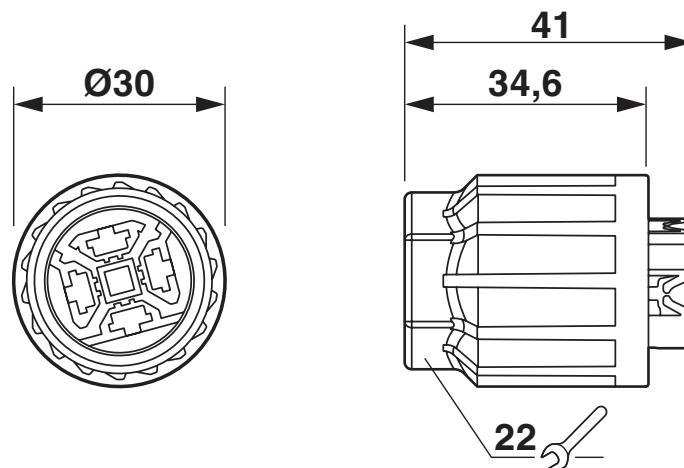
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## Drawings

Dimensional drawing



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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/no/products/1423994>



### 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 $\text{mm}^2$ |
|--------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
| 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 $\text{mm}^2$ |
|--|-----------------------|-----------------------|-------------------|-----------------------------|
|  | 600 V                 | 15 A                  | -                 | - 14                        |



### cUL Listed

Approval ID: E468743

|  | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
|--|-----------------------|-----------------------|-------------------|-----------------------------|
|  | 600 V                 | 15 A                  | - 14              | -                           |

cULus Listed

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## Classifications

### ECLASS

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

### ETIM

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

### UNSPSC

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

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## Environmental product compliance

|            |                                                         |
|------------|---------------------------------------------------------|
| China RoHS | Environmentally friendly use period: unlimited = EFUP-e |
|            | No hazardous substances above threshold values          |

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