

# QPD N2,5 9-14 BK - Nut

1423994

<https://www.phoenixcontact.com/us/products/1423994>



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Nut, 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                            | BF50          |
| Product key                          | AF6UCX        |
| GTIN                                 | 4055626366111 |
| Weight per piece (including packing) | 21.3 g        |
| Weight per piece (excluding packing) | 20.5 g        |
| Customs tariff number                | 85389099      |
| Country of origin                    | PL            |

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## Technical data

### Product properties

|                       |                           |
|-----------------------|---------------------------|
| Product type          | Installation pressure nut |
| Product family        | QPD                       |
| Type                  | QPD 4x2,5                 |
| 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

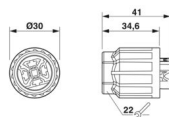
#### Connection technology

|                                                                       |                |
|-----------------------------------------------------------------------|----------------|
| 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 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> |
| Conductor cross section solid    | 1 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> |
| Connection cross section AWG     | 16 ... 14                                 |
| Tightening torque Union nut      | 10 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/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 mm ... 3.6 mm                    |
| Position marking                                                            | 1, 2, 3, 4                         |
| 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                       |

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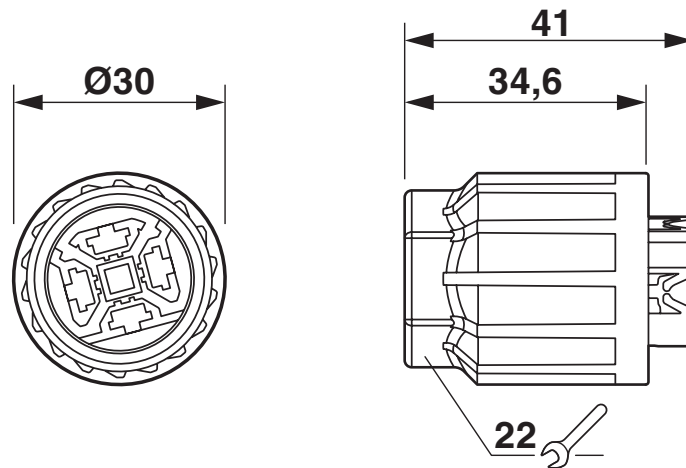
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## Drawings

Dimensional drawing



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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/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 $\text{mm}^2$ |
|--------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
| keine                    |                       |                       |                   |                             |
| 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 $\text{mm}^2$ |
|-------|-----------------------|-----------------------|-------------------|-----------------------------|
| keine |                       |                       |                   |                             |
|       | 600 V                 | 15 A                  | - 14              | - 14                        |



### cUL Listed

Approval ID: E468743

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



### DNV GL

Approval ID: TAE00003J5

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27440691 |
| ECLASS-15.0 | 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 | 0.191 kg CO2e |
|---------|---------------|

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