# Q 1,5/4IDC/24-24KU-KU BK - Conductor connector

1642153

https://www.phoenixcontact.com/us/products/1642153

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QUICKON cable connector, black, 4-pos. without PE, 0.75 mm$^2$ ... 1.5 mm$^2$ /500 V/15 A, for a cable diameter of 6 mm ... 12 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 IP65/IP67 protection for a wide range of applications
- Safer connection with mechanical coding to protect against mismatching, and touch-proof protection in accordance with DIN EN 0105
- Easy and safe - with the cable connector, you can repair or extend cables quickly, in combination with the connector as well as the coupling connection

## Commercial data

| | |
|---|---|
| Item number | 1642153 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | BF50 |
| Product key | BF6HCC |
| Catalog page | Page 474 (C-2-2019) |
| GTIN | 4017918920418 |
| Weight per piece (including packing) | 42.3 g |
| Weight per piece (excluding packing) | 36.5 g |
| Customs tariff number | 85366990 |
| Country of origin | PL |

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## Technical data

### Mounting

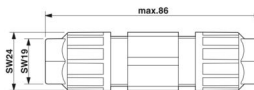| | |
|---|---|
| Assembly note | If the conductor is reconnected, it must be cut off above the last contact point. QUICKON components may only be operated when under no load. |

### Product properties

| | |
|---|---|
| Product type | Cable connector |
| Number of positions | 4 |
| Position marking | 1, 2, 3, 4 |
| Number of connections | 4 |
| Number of connections per position | 1 |
| Coding | no |

#### Insulation characteristics

| | |
|---|---|
| Overvoltage category | III |
| Degree of pollution | 3 |

### Dimensions

| | |
|---|---|
| Dimensional drawing |  |
| Width | 24 mm |
| Height | 24 mm |
| Length | 86 mm |
| Diameter | 24 mm |

### Connection data

#### Connection technology

| | |
|---|---|
| Frequency of connections between conductors of the same cross section | max. 10 |

#### Conductor connection

| | |
|---|---|
| Tightening torque | 3 Nm |
| Tightening torque Union nut | 3 Nm |
| Wrench size Union nut | 19 mm |
| Wrench size Contact carrier | 24 mm |

### 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 | 15 A |
|---|---|
| Contact resistance | ≤ 5 mΩ |
| rated voltage (II/2) | 1000 V |
| rated voltage (III/2) | 800 V |
| Rated voltage (III/3) | 500 V |
| Nominal voltage $U_N$ | 500 V AC |
| | 500 V DC |
| Nominal current $I_N$ | 15 A |

## Material specifications

| Color | black (RAL 9005) |
|---|---|
| Material Housing | PA |
| Material Contact | CuZn |
| Material Contact surface | tin-plated |
| Flammability rating according to UL 94 | V0 |
| Material wire insulation | PVC / PE |

## Cable/line

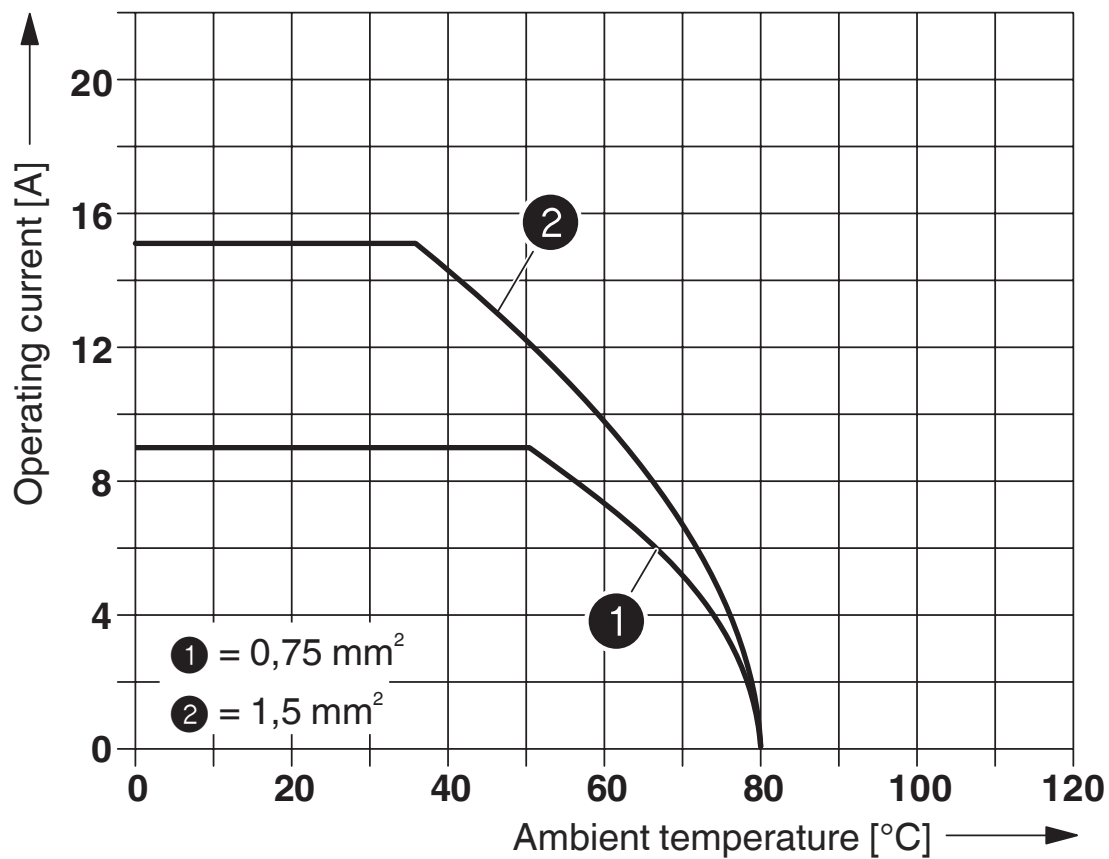| Structure of individual litz in acc. with VDE 0295 / smallest wire diameter | VDE 0295 class 1 to 6/min. 0.15 mm |
|---|---|
| External cable diameter | 6 mm ... 12 mm |
| Wire diameter including insulation | 1.8 mm ... 3 mm |
| Position marking | 1, 2, 3, 4 |
| Material wire insulation | PVC / PE |

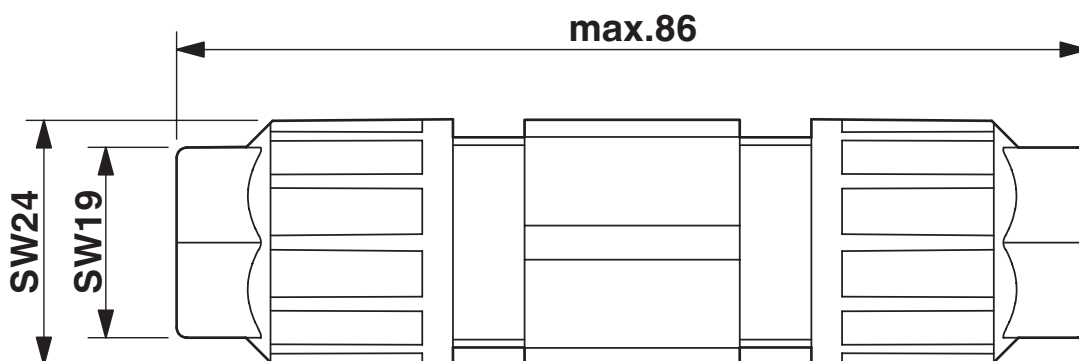## Environmental and real-life conditions

### Ambient conditions

| Degree of protection | IP65 |
|---|---|
| | IP67 |
| Ambient temperature (operation) | -40 °C ... 80 °C |
| Temperature when conductor connected | -5 °C ... 50 °C |
| Ambient temperature (storage/transport) | -40 °C ... 80 °C |

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## Drawings

Diagram



Dimensional drawing

# Q 1,5/4IDC/24-24KU-KU BK - Conductor connector

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## Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1642153

### cUL Recognized
Approval ID: FILE E 118976

| | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
|---|---|---|---|---|
| | 250 V | 11 A | - | - |

### UL Recognized
Approval ID: FILE E 118976

| | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
|---|---|---|---|---|
| | 250 V | 15 A | - | - |

### EAC
Approval ID: RU C-DE.AI30.B.01102

### EAC
Approval ID: EAC-Zulassung

### VDE Zeichengenehmigung
Approval ID: 40032336

| | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
|---|---|---|---|---|
| | 500 V | - | - | 0.75 - 1.5 |

### EAC
Approval ID: RU C-DE.A*30.B.01102

### EAC
Approval ID: RU C-DE.BL08.B.00511

### cULus Recognized

# Q 1,5/4IDC/24-24KU-KU BK - Conductor connector

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## Classifications

### ECLASS

| | |
|---|---|
| ECLASS-11.0 | 27440605 |
| ECLASS-13.0 | 27440605 |
| ECLASS-12.0 | 27440605 |

### ETIM

| | |
|---|---|
| ETIM 9.0 | EC002560 |

### 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% |

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## Accessories

### SEALING PLUG 12X22 RD - Closing cap

1400260

https://www.phoenixcontact.com/us/products/1400260

Closing cap, color: red

### MICROFOX-SB - Diagonal cutter

1212489

https://www.phoenixcontact.com/us/products/1212489

Electronic diagonal cutter, round head, without chamfer, with opening spring, mirror-polished and oiled, 2-component grip, cutting capacity: soft 0.2 - 2.0 mm; medium hard 1.2 mm; hard 0.5 mm diameter

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## QSS 19 - Socket wrench

1670895

https://www.phoenixcontact.com/us/products/1670895



Socket wrench, for tightening and unscrewing the QUICKON union nut, wrench size 19 mm

Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com