

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



1641578

<https://www.phoenixcontact.com/in/products/1641578>

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Cable connector with QUICKON fast connection technology, 4-pos., connection cross section 0.75 ... 1.5 mm<sup>2</sup>

## Your advantages

- Robust throughout: housing with IP65/IP67 protection for a wide range of applications

## Commercial Data

Item number	1641578
Packing unit	1 pc
Minimum order quantity	1 pc
Sales Key	BF6
Product Key	BF6HCC
Catalog Page	Page 13 (PC-2002)
GTIN	4017918876616
Weight per Piece (including packing)	41.6 g
Weight per Piece (excluding packing)	38.1 g
Customs tariff number	85366990
Country of origin	PL

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## Technical Data

### Mounting

Assembly instructions	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.
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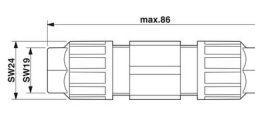
### Product properties

Product type	Cable connector
Number of positions	4
Position marking	1, 2, 3, 4
Number of connections per position	1
Locking type	without
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

### External dimensions

Outside diameter	6 mm ... 12 mm
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### Connection data

#### Connection technology

Connection method	QUICKON fast connection
Connection system, internal	IDC connection
Connection technology	QUICKON connection
Frequency of connections between conductors of the same cross section	10

#### Conductor connection

Conductor cross section rigid	0.75 mm <sup>2</sup> ... 1 mm <sup>2</sup>
Conductor cross section flexible	0.75 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
Conductor cross section AWG	18 ... 16

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Wrench size, union nut	19 mm
Tightening torque, union nut	3 Nm
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	green
Material Housing	PA
Flammability rating according to UL 94	V0
Contact material	CuZn
Contact surface material	tin-plated
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	6 mm ... 12 mm
Wire diameter including insulation	1.8 mm ... 3 mm
Position marking	1, 2, 3, 4
Material wire insulation	PVC / PE

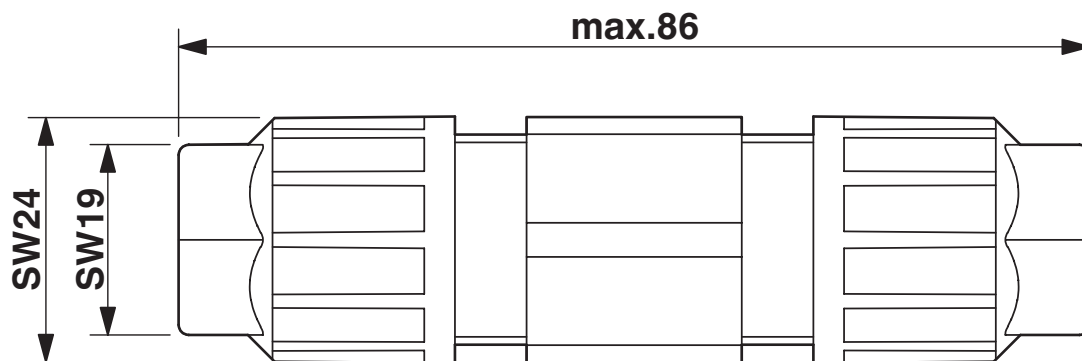
## Environmental and real-life conditions

### Ambient conditions

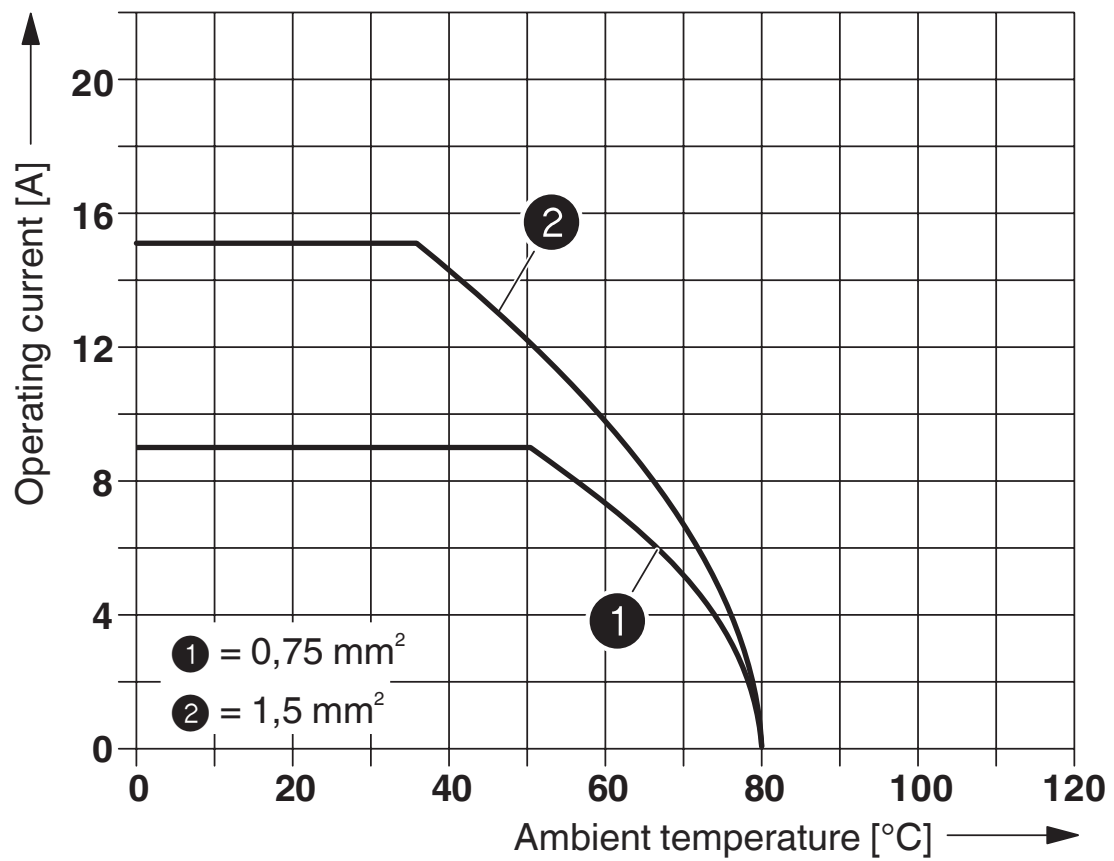
Degree of protection	IP65 IP67
Ambient temperature (operation)	-25 °C ... 80 °C (specifications of the cable manufacturer must also be observed)
Temperature when conductor connected	-5 °C ... 50 °C (specifications of the cable manufacturer must also be observed)
Ambient temperature (storage/transport)	-40 °C ... 80 °C

## Drawings

Dimensional drawing



Diagram



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## Approvals

 <b>cUL Recognized</b> Approval ID: FILE E 118976	Nominal Voltage $U_N$	Nominal Current $I_N$	Cross Section AWG	Cross Section $\text{mm}^2$
	250 V	11 A	-	-

 <b>UL Recognized</b> Approval ID: FILE E 118976	Nominal Voltage $U_N$	Nominal Current $I_N$	Cross Section AWG	Cross Section $\text{mm}^2$
	250 V	15 A	-	-

 <b>EAC</b> Approval ID: RU C-DE.A*30.B.01102
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 <b>EAC</b> Approval ID: RU C-DE.BL08.B.00511
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 <b>VDE Zeichengenehmigung</b> Approval ID: 40032336	Nominal Voltage $U_N$	Nominal Current $I_N$	Cross Section AWG	Cross Section $\text{mm}^2$
	500 V	-	-	0.75 - 1.5

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## Classifications

### ECLASS

ECLASS-11.0	27440605
ECLASS-13.0	Leitungsverbinder
ECLASS-13.0	Leitungsverbinder
ECLASS-13.0	Leitungsverbinder

### ETIM

ETIM 8.0	EC002560
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### 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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## Accessories

### Q-PROT13/16 - Filler plugs

1670222

<https://www.phoenixcontact.com/in/products/1670222>



Closing caps, for Pg13/ Pg16, for closing unoccupied connections

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### MICROFOX-SB - Diagonal cutter

1212489

<https://www.phoenixcontact.com/in/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/in/products/1670895>



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

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