

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



1642153

<https://www.phoenixcontact.com/pc/products/1642153>

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QUICKON cable connector, black, 4-pos. without PE, 0.75 mm² ... 1.5 mm² /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

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Commercial Data

Item number	1642153
Packing unit	1 pc
Minimum order quantity	1 pc
Product Key	BF6HCC
Catalog Page	Page 474 (C-2-2019)
GTIN	4017918920418
Weight per Piece (including packing)	42 g
Weight per Piece (excluding packing)	36.5 g
Customs tariff number	85366990
Country of origin	PL

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Technical Data

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

Connection data

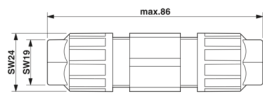
Connection technology

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 solid	0.75 mm ² ... 1 mm ²
Conductor cross section flexible	0.75 mm ² ... 1.5 mm ²
Conductor cross section AWG	18 ... 16
Wrench size, union nut	19 mm
Tightening torque, union nut	3 Nm
Wrench size, contact carrier	24 mm

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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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
Flammability rating according to UL 94	V0
Insulating material	PA
Contact material	CuZn
Contact surface material	Tin-plated
Contact carrier material	PA
Housing material	PA

Connector

Number of positions	4
Coding	no
Connection method	QUICKON fast connection
Contact material	CuZn
Contact surface material	Tin-plated
Type of locking	without
Housing material	PA
Number of positions	4
Coding	no
Connection method	QUICKON fast connection
Contact material	CuZn
Contact surface material	Tin-plated

Cable / line

Cable structure

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
Material wire insulation	PVC / PE
Position marking	1, 2, 3, 4

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Wire diameter including insulation	1.8 mm ... 3 mm
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Mounting

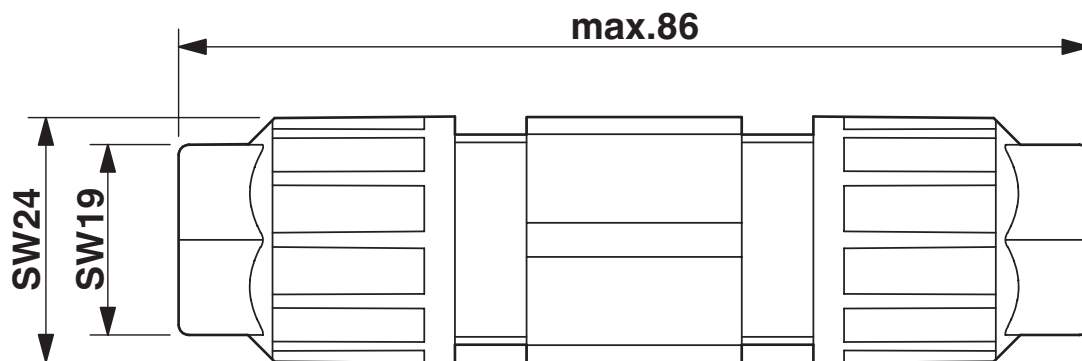
Assembly instructions	If the conductor is reconnected, it must be cut off above the last contact point. QUICKON components may only be operated when under no load.
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Ambient conditions

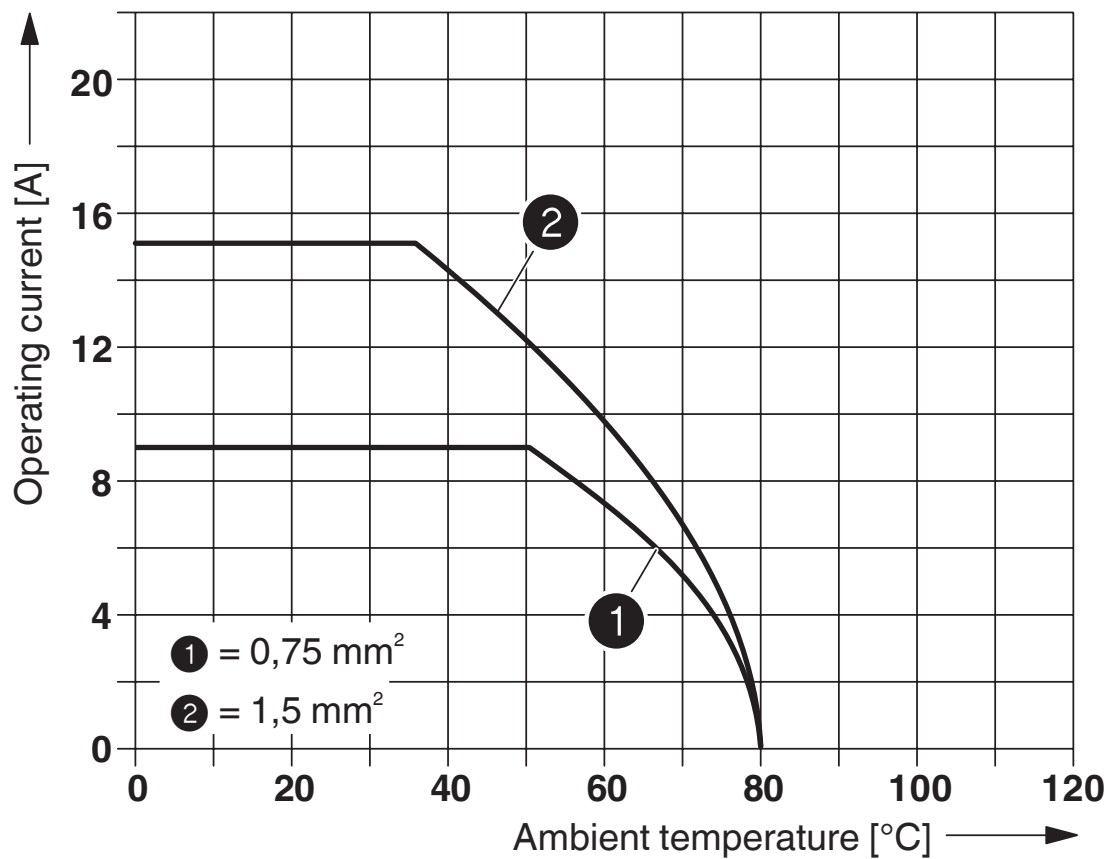
Degree of protection	IP65
	IP67
Ambient temperature (operation)	-40 °C ... 80 °C
Temperature when conductor connected	-5 °C ... 50 °C
Ambient temperature (storage/transport)	-40 °C ... 80 °C

Drawings

Dimensional drawing




Diagram




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Approvals

 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				
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 EAC Approval ID: EAC-Zulassung				
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 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				
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 EAC Approval ID: RU C-DE.BL08.B.00511				
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cULus Recognized				
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Classifications

ECLASS

ECLASS-9.0	27440605
ECLASS-10.0.1	27440605
ECLASS-11.0	27440605

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 = 50 years For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"
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Accessories

Diagonal cutter

Diagonal cutter - MICROFOX-SB - 1212489

<https://www.phoenixcontact.com/pc/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

Socket wrench

Socket wrench - QSS 19 - 1670895

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



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

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Closing cap

Closing cap - SEALING PLUG 12X22 RD - 1400260

<https://www.phoenixcontact.com/pc/products/1400260>

Closing cap, material: PA, color: red



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