

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



1642182

<https://www.phoenixcontact.com/us/products/1642182>

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QUICKON cable connector, black, 3+PE-pos., 0.75 mm<sup>2</sup> ... 1.5 mm<sup>2</sup> /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	1642182
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF50
Product key	AF6HCC
GTIN	4017918951177
Weight per piece (including packing)	42.17 g
Weight per piece (excluding packing)	29.98 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.
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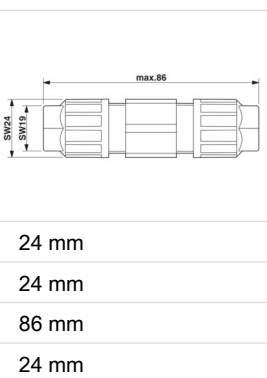
### Product properties

Product type	Cable connector
Number of positions	4
Connection profile	3+PE
Position marking	1, 2, 3, PE
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
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#### 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

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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, PE
Material wire insulation	PVC / PE

## Environmental and real-life conditions

### Ambient conditions

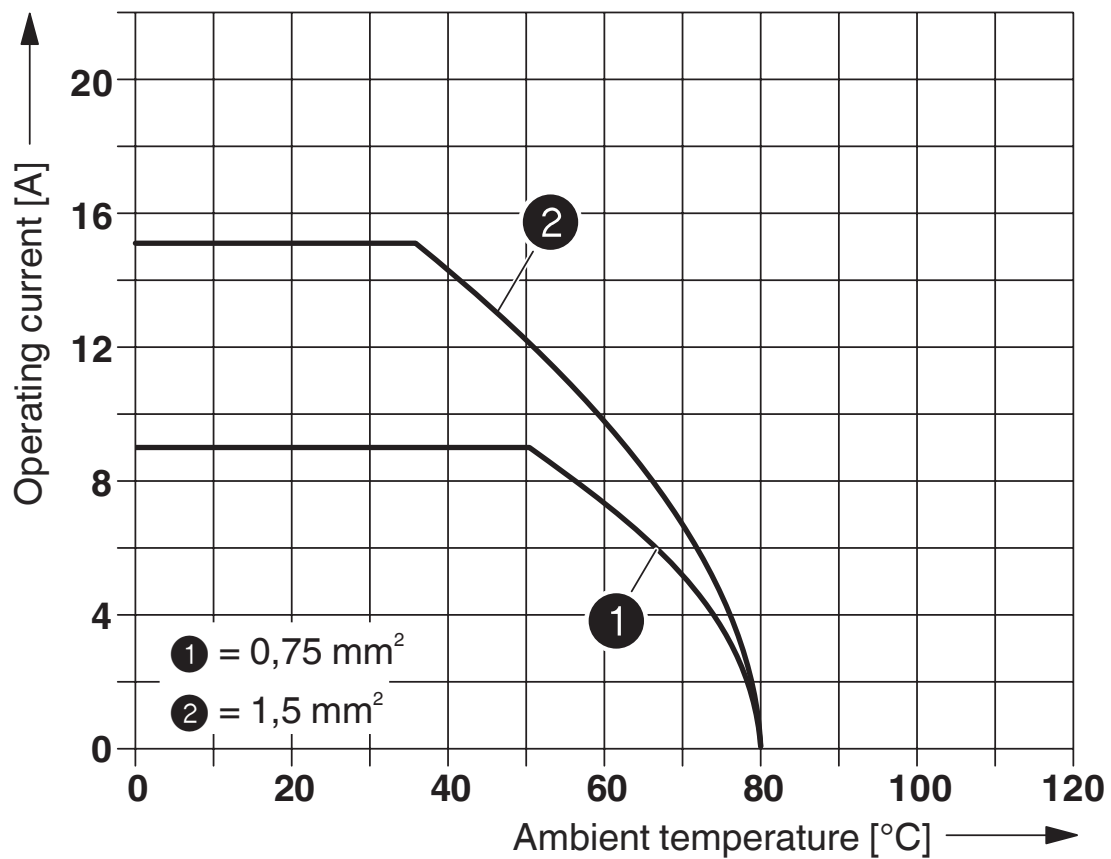
Degree of protection	IP65
	IP67
Impact strength	IK06
Ambient temperature (operation)	-40 °C ... 80 °C (specifications of the cable manufacturer must also be observed)
Temperature when conductor connected	-5 °C ... 50 °C (specifications of the cable manufacturer must also be observed)
Ambient temperature (storage/transport)	-40 °C ... 80 °C

Drawings

Dimensional drawing



Diagram



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## Approvals

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 <b>cUL Recognized</b> Approval ID: E118976				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $mm^2$
keine				
	250 V	11 A	-	-

 <b>UL Recognized</b> Approval ID: E118976				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $mm^2$
keine				
	250 V	15 A	-	-

 <b>EAC</b> Approval ID: RU C-DE.AI30.B.01102				
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 <b>EAC</b> Approval ID: RU C-DE.A*30.B.01102				
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 <b>VDE Zeichengenehmigung</b> Approval ID: 40032336				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $mm^2$
keine				
	500 V	-	-	0.75 - 1.5

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## Classifications

### ECLASS

ECLASS-13.0	27440605
ECLASS-15.0	27440605

### ETIM

ETIM 10.0	EC002560
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### UNSPSC

UNSPSC 21.0	39121400
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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
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### 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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### EF3.1 Climate Change

CO2e kg	0.584 kg CO2e
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