

# Q 0,75/4IDC/18-18KU-KU BK - Conductor connector



1642140

<https://www.phoenixcontact.com/us/products/1642140>

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Conductor connector, connection method: IDC connection, 0.34 mm<sup>2</sup> ... 0.75 mm<sup>2</sup>, 250 V, 9 A, black, coding: no, external cable diameter: 4 mm ... 8 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
- 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	1642140
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF50
Product key	AF6HCB
GTIN	4017918923891
Weight per piece (including packing)	18.2 g
Weight per piece (excluding packing)	14.12 g
Customs tariff number	85366990
Country of origin	DE

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## Technical data

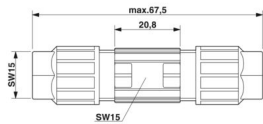
### Product properties

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

### Insulation characteristics

Overvoltage category	III
Degree of pollution	3

### Dimensions

Dimensional drawing	
Width	15 mm
Height	15 mm
Length	67.5 mm
Diameter	15 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	1.2 Nm
Tightening torque Union nut	1.2 Nm
Wrench size Union nut	15 mm
Wrench size Contact carrier	15 mm

### Electrical properties

Rated surge voltage (II/2)	4 kV
Rated surge voltage (III/2)	4 kV
Rated surge voltage (III/3)	4 kV
Rated current	9 A
Contact resistance	≤ 5 mΩ
rated voltage (II/2)	500 V
rated voltage (III/2)	400 V

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Rated voltage (III/3)	250 V
Insulation resistance	≥ 100 MΩ
Nominal voltage U <sub>N</sub>	400 V AC
	400 V DC
Nominal current I <sub>N</sub>	9 A

## Material specifications

Color	black (RAL 9005)
Material Housing	PA
Material Contact	Steel
Material Contact surface	Sn
Flammability rating according to UL 94	V0
Material wire insulation	PVC/PE/TPE/rubber

## 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	4 mm ... 8 mm
Wire diameter including insulation	1.3 mm ... 2.6 mm
Position marking	1, 2, 3, 4
Material wire insulation	PVC / PE

## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP65
	IP67
Impact strength	IK06
Ambient temperature (operation) (male connector/female connector)	-40 °C ... 80 °C
Temperature when conductor connected	-5 °C ... 50 °C
Ambient temperature (storage/transport)	-40 °C ... 80 °C

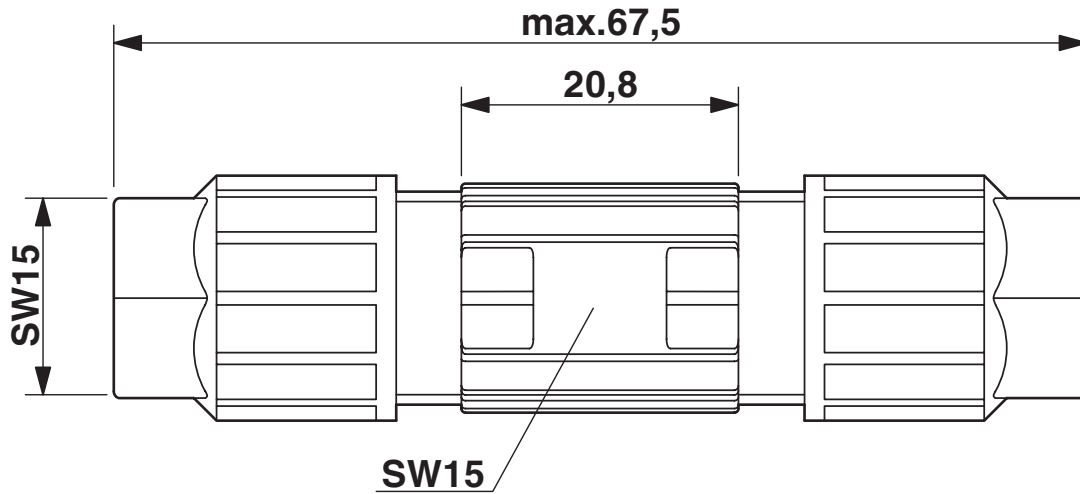
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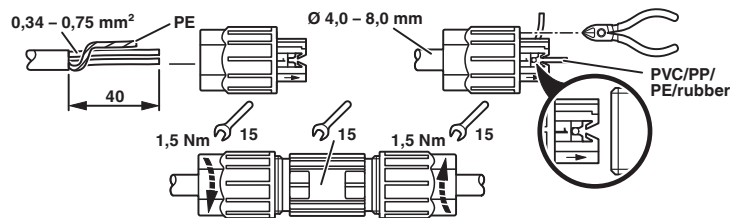
<https://www.phoenixcontact.com/us/products/1642140>

## Drawings

Dimensional drawing



Functional drawing



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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 $\text{mm}^2$
keine				
	250 V	6 A	-	-

 <b>UL Recognized</b> Approval ID: E118976				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
keine				
	250 V	9 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: 40030930				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
keine				
	400 V	-	-	-

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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	0.221 kg CO2e
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