

https://www.phoenixcontact.com/us/products/1014420



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Contact insert, number of positions: 18+PE, size: B10, power contacts: 18, control contacts: 0, number of connections per position: 1, Pin, Push-in connection, 500 V, 16 A,  $0.5~\text{mm}^2$  ... 2.5 mm<sup>2</sup>, application: Power

#### Your advantages

- Easy installation without tools, even when mounted, with push-in connection technology
- · Shortest installation time compared to other connection technologies
- · Quick and effortless wiring, in particular when space is tight
- · Automatic cabling with robots possible
- · Safe wiring and operation with color-coded actuators
- Shock and vibration-resistant in accordance with DIN EN 61373
- · Cost-effective and fast coding with plastic profiles
- · High contact density

#### Commercial data

Item number	1014420
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF61
Product key	BF7ABD
Catalog page	Page 553 (C-2-2019)
GTIN	4055626492179
Weight per piece (including packing)	76.4 g
Weight per piece (excluding packing)	76 g
Customs tariff number	85366990
Country of origin	CN



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### Technical data

#### Notes

General	for flexible conductors with or without ferrules
General	Connectors may be operated only when there is no load/voltage.
General	Flexible conductors may be used without ferrules as long as they comply with IEC 60228 Class 1 5. The individual litz wires must have a min. diameter of 0.17 mm.

### Mounting

Assembly note	To ensure correct use, installation in housing with IP54 protection	
	or better is required	

#### Product properties

Product type	Contact insert with a fixed no. of positions
Series	НС-ВВ
Application	Power
Туре	B10
Number of positions	18
Connection profile	18+PE
Contact numbering	1 - 18
Number of connections per position	1
No. of power contacts	18
No. of control contacts	0
Contact material type	turned
Data management status	
Article revision	03

Article revision	03	
Insulation characteristics		
Overvoltage category	III	
Degree of pollution	3	

#### **Dimensions**

Dimensional drawing	63 57 27 8
Width	34 mm
Height	33.2 mm
Length	64 mm
Drill hole distance, horizontal	57 mm
Drill hole distance, vertical	27 mm

Mechanical characteristics



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Standards/regulations



Minimum housing height	72 mm
Contact diameter	2.5 mm
Connection data	
Connection technology	
Connection technology	Push-in connection
Number of connections per position	1
Connection in acc. with standard	IEC / EN
Conductor connection	
Conductor cross section	0.5 mm² 2.5 mm²
Connection cross section AWG	20 14
Tightening torque	0.8 Nm 1.2 Nm (PE connection)
	0.5 Nm 0.8 Nm (Mounting screws for mounting in the HEAVYCON housing)
Stripping length of the individual wire	10 mm
Electrical properties	
Rated voltage (III/3)	500 V
Rated surge voltage	6 kV
Rated current	16 A (power contacts)
Mechanical properties  Mechanical data	
Insertion/withdrawal cycles	≥ 500
Material specifications	
Flammability rating according to UL 94	V0
Contact material	Copper alloy
Contact surface material	Ag
Contact carrier material	PC
Standards/regulations	PC: Fire protection in rail vehicles - requirement sets R22, R23, and R24 acc. to DIN EN 45545-2 (Risk level HL1 - HL3)
Environmental and real-life conditions  Ambient conditions	
Ambient temperature (operation)	-40 °C 125 °C (including heating up of contacts)
Standards and regulations	, , , , , , , , , , , , , , , , , , , ,
Testing	

PC: Fire protection in rail vehicles - requirement sets R22, R23, and R24 acc. to DIN EN 45545-2 (Risk level HL1 - HL3)

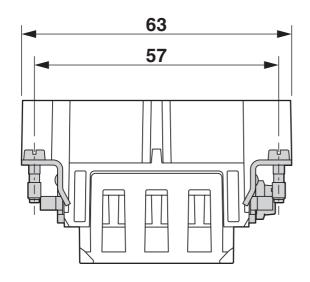


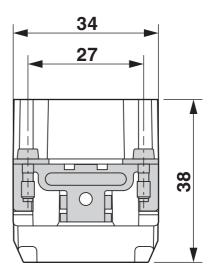
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### Drawings

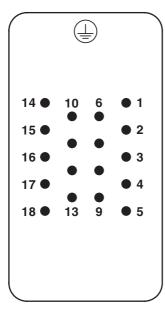
#### Dimensional drawing

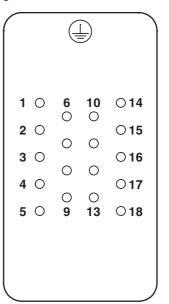




Male insert

Schematic diagram



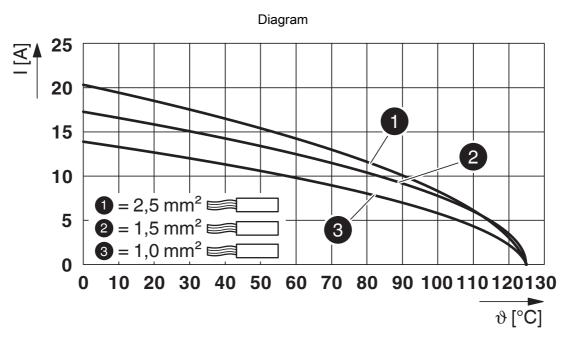


Connector pin assignment: Left pin - right socket

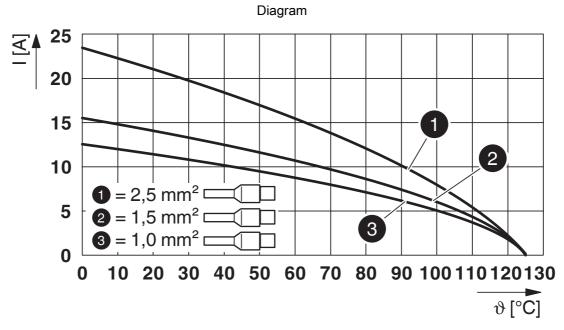


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Derating diagram for flexible conductors

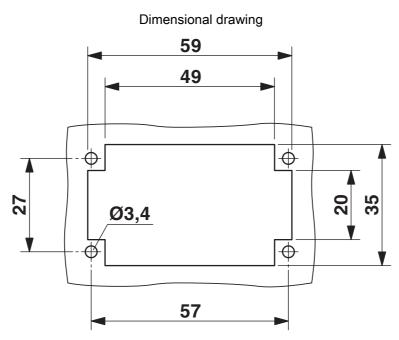


Derating diagram for flexible conductors with ferrule



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Mounting cutout when used without housing



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### **Approvals**

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1014420

Approval ID: TAE000037S



**EAC** 

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

71	<b>UL Recognized</b> Approval ID: E468743				
		Nominal voltage U <sub>N</sub>	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
		600 V	21 A	- 14	-



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### Classifications

#### **ECLASS**

	ECLASS-11.0	27440205			
	ECLASS-12.0	27440205			
	ECLASS-13.0	27440205			
ΕΊ	ETIM				
	ETIM 9.0	EC000438			
U	UNSPSC				
	UNSPSC 21.0	39121500			



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### Environmental product compliance

#### EU RoHS

otions				
substances above the limits				
EU REACH SVHC				
above 0.1 wt%				
: 6				

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