

1014419

https://www.phoenixcontact.com/us/products/1014419

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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, Socket, Push-in connection, 500 V, 16 A, 0.5 mm² ... 2.5 mm², 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	1014419
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF61
Product key	BF7ABD
Catalog page	Page 553 (C-2-2019)
GTIN	4055626492964
Weight per piece (including packing)	82.8 g
Weight per piece (excluding packing)	82.7 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

Thread type	()
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	HC-BB
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

Degree of pollution

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Article revision	03
Insulation characteristics	
Overvoltage category	III

3

Dimensions

Dimensional drawing	\$3 \$7 \$7 \$7 \$8
Width	34 mm
Height	33.2 mm
Length	64 mm
Drill hole distance, horizontal	57 mm
Drill hole distance, vertical	27 mm



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Mechanical	cha	aractarietice

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 Connection	
Conductor cross section	0.5 mm ² 2.5 mm ²
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)

Standards and regulations

Testing

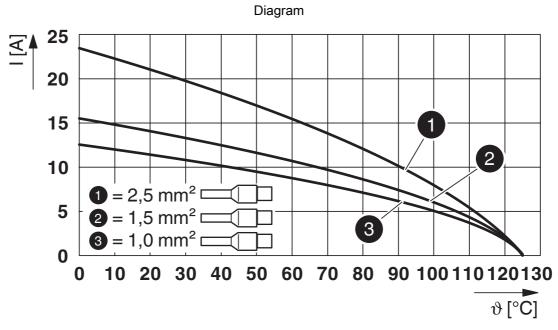
Standards/regulations	PC: Fire protection in rail vehicles - requirement sets R22, R23,
	and R24 acc. to DIN EN 45545-2 (Risk level HL1 - HL3)



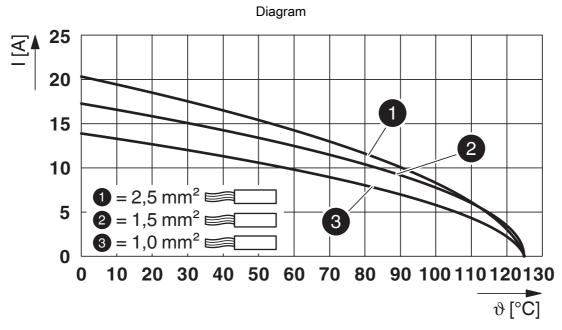
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Drawings



Derating diagram for flexible conductors with ferrule



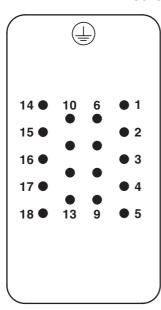
Derating diagram for flexible conductors

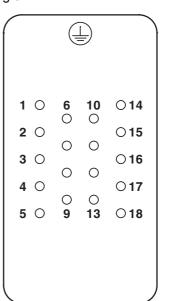


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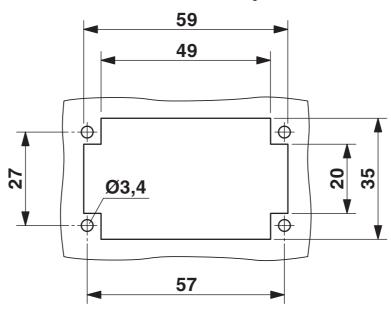
Schematic diagram





Connector pin assignment: Left pin - right socket

Dimensional drawing



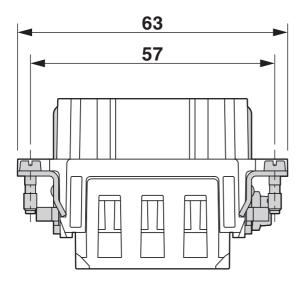
Mounting cutout when used without housing

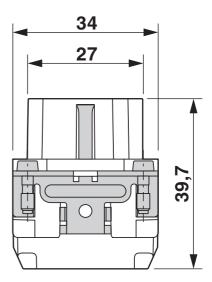


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Dimensional drawing





Female insert



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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1014419

Approval ID: TAE000037S



EAC

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

7/	UL Recognized Approval ID: E468743				
		Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
		600 V	21 A	- 14	-



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Classifications

UNSPSC 21.0

ECLASS

ECLASS-11.0	27440205	
ECLASS-12.0	27440205	
ECLASS-13.0	27440205	
ETIM		
ETIM 9.0	EC000438	
UNSPSC		

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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
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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