

https://www.phoenixcontact.com/us/products/1014424



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Contact insert, number of positions: 46+PE, size: B24, power contacts: 46, control contacts: 0, number of connections per position: 1, Pin, Push-in connection, 500 V, 16 A, $0.5~\text{mm}^2$... 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	1014424
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF61
Product key	BF7ABD
Catalog page	Page 553 (C-2-2019)
GTIN	4055626492988
Weight per piece (including packing)	150.3 g
Weight per piece (excluding packing)	150.3 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	HC-BB
Application	Power
Туре	B24
Number of positions	46
Connection profile	46+PE
Contact numbering	1 - 46
Number of connections per position	1
No. of power contacts	46
No. of control contacts	0
Contact material type	turned
Data management status	
Article revision	03
Insulation characteristics	

III 3

Dimensions

Overvoltage category

Degree of pollution

Dimensional drawing	34
Width	34 mm
Height	38 mm
Length	110 mm
Drill hole distance, horizontal	104 mm
Drill hole distance, vertical	27 mm
Mechanical characteristics	
Minimum housing height	72 mm



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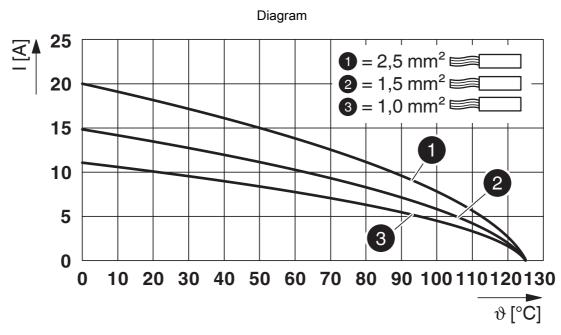
Contact diameter	2.5 mm
Connection data	
Connection technology	
Connection technology	Push-in connection
Number of connections per position	1
Connection in acc. with standard	IEC / EN
Conductor connection	
Conductor cross section	0.5 mm² 2.5 mm²
Connection cross section AWG	20 14
Tightening torque	0.8 Nm 1.2 Nm (PE connection)
. g.n.o.m.g to quo	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	
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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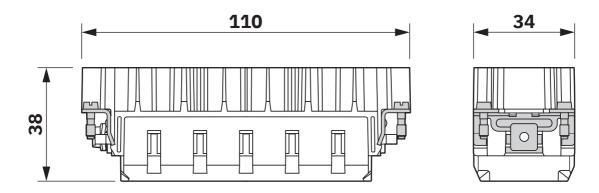


Drawings



Derating diagram for flexible conductors

Dimensional drawing

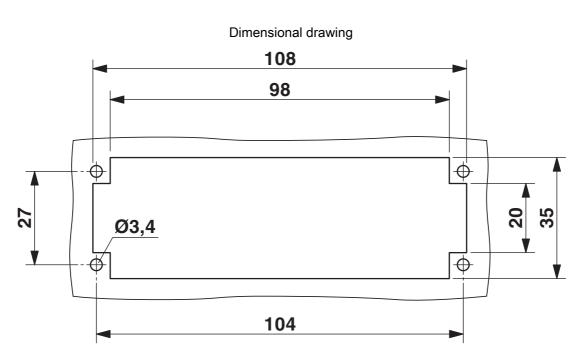


Dimensional drawing



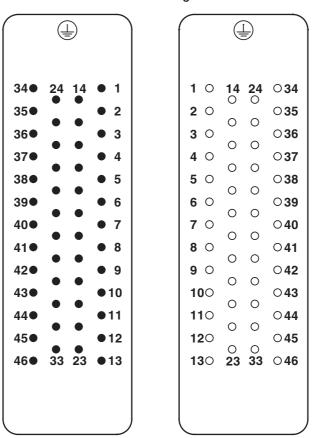
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Mounting cutout when used without housing

Schematic diagram

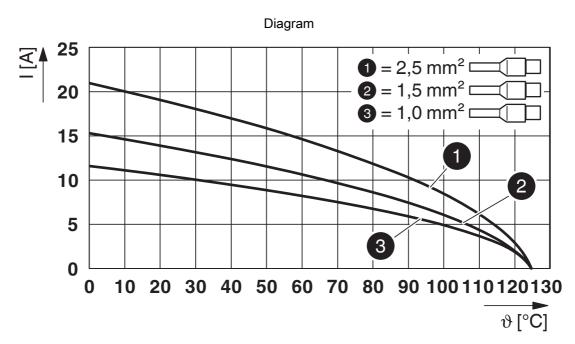


Connection side: male left; female right



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Derating diagram for flexible conductors with ferrule



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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1014424

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

27440205			
27440205			
27440205			
ETIM			
EC000438			

39121500



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Environmental product compliance

EU RoHS

20 1.01.0	
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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