

https://www.phoenixcontact.com/us/products/1648270



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Contact insert, number of positions: 16+PE, size: B16, number of connections per position: 1, Pin, Crimp connection, 500 V, 16 A, 0.5 mm² ... 4 mm², application: Power

Your advantages

- · For fast coding with plastic profile

- Shock and vibration-resistant in accordance with DIN EN 61373

Commercial data

Item number	1648270	
Packing unit	1 pc	
Minimum order quantity	1 pc	
Sales key	BF61	
Product key	BF7ABC	
Catalog page	Page 545 (C-2-2019)	
GTIN	4046356092401	
Weight per piece (including packing)	54.6 g	
Weight per piece (excluding packing)	54.6 g	
Customs tariff number	85366990	
Country of origin	CN	



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Technical data

Notes

General	For HEAVYCON ADVANCE and HEAVYCON housing of B16 type, crimp contacts CK 2,5-ED (crimp contacts not included in the scope of supply).
General	Connectors may be operated only when there is no load/voltage.

Mounting

Assembly note	To ensure correct use, installation in housing with IP54 protection or better is required	
	Remove the crimp contact using a screwdriver. The opening for the screwdriver is next to the opening where the conductor is inserted.	

Product properties

Product type	Contact insert with a fixed no. of positions	
Series	НС-В	
Application	Power	
Туре	B16	
	B32	
Number of positions	16	
Connection profile	16+PE	
Contact numbering	1 - 16	
Number of connections per position	1	
Contact material type	turned	

Insulation characteristics

Overvoltage category	III
Degree of pollution	3

Data management status

Article revision	11
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Dimensions

Dimensional drawing	84 77.8 27 27 20 20 20 20 20 20 20 20 20 20 20 20 20
Width	34 mm
Height	32 mm
Length	84 mm
Drill hole distance, horizontal	77.5 mm

Mechanical characteristics



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	2.5 mm		
Contact diameter			
onnection data			
Connection technology			
Connection technology	Crimp connection		
Number of connections per position	1		
Connection in acc. with standard	IEC / EN		
Conductor connection			
Conductor cross section	0.5 mm² 4 mm²		
Connection cross section AWG	20 12		
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	7.5 mm		
ectrical properties			
Rated voltage (III/3)	500 V		
Rated surge voltage	6 kV		
Rated current	16 A		
SCCR echanical properties	5 kA (UL 2237)		
	5 kA (UL 2237) ≥ 500		
echanical properties Mechanical data			
echanical properties Mechanical data Insertion/withdrawal cycles			
echanical properties Mechanical data Insertion/withdrawal cycles aterial specifications	≥ 500		
echanical properties Mechanical data Insertion/withdrawal cycles aterial specifications Flammability rating according to UL 94	≥ 500 V0		
echanical properties Mechanical data Insertion/withdrawal cycles aterial specifications Flammability rating according to UL 94 Contact material	≥ 500 V0 Copper alloy		
Mechanical properties Mechanical data Insertion/withdrawal cycles aterial specifications Flammability rating according to UL 94 Contact material Contact surface material	≥ 500 V0 Copper alloy Ag (alternatively Au) PC		
Mechanical properties Mechanical data Insertion/withdrawal cycles aterial specifications Flammability rating according to UL 94 Contact material Contact surface material Contact carrier material	≥ 500 V0 Copper alloy Ag (alternatively Au) PC PC: Fire protection in rail vehicles - requirement sets R22, R23		
Mechanical properties Mechanical data Insertion/withdrawal cycles aterial specifications Flammability rating according to UL 94 Contact material Contact surface material Contact carrier material Standards/regulations	≥ 500 V0 Copper alloy Ag (alternatively Au) PC PC: Fire protection in rail vehicles - requirement sets R22, R23		
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Mechanical data Insertion/withdrawal cycles aterial specifications Flammability rating according to UL 94 Contact material Contact surface material Contact carrier material Standards/regulations nvironmental and real-life conditions Ambient conditions	V0 Copper alloy Ag (alternatively Au) PC PC: Fire protection in rail vehicles - requirement sets R22, R23 and R24 acc. to DIN EN 45545-2 (Risk level HL1 - HL3)		
Mechanical data Insertion/withdrawal cycles aterial specifications Flammability rating according to UL 94 Contact material Contact surface material Contact carrier material Standards/regulations nvironmental and real-life conditions Ambient conditions Degree of protection	V0 Copper alloy Ag (alternatively Au) PC PC: Fire protection in rail vehicles - requirement sets R22, R23 and R24 acc. to DIN EN 45545-2 (Risk level HL1 - HL3)		
Mechanical data Insertion/withdrawal cycles aterial specifications Flammability rating according to UL 94 Contact material Contact surface material Contact carrier material Standards/regulations Ambient conditions Degree of protection Ambient temperature (operation)	V0 Copper alloy Ag (alternatively Au) PC PC: Fire protection in rail vehicles - requirement sets R22, R23 and R24 acc. to DIN EN 45545-2 (Risk level HL1 - HL3)		
Mechanical data Insertion/withdrawal cycles aterial specifications Flammability rating according to UL 94 Contact material Contact surface material Contact carrier material Standards/regulations Ambient conditions Degree of protection Ambient temperature (operation) andards and regulations	V0 Copper alloy Ag (alternatively Au) PC PC: Fire protection in rail vehicles - requirement sets R22, R23 and R24 acc. to DIN EN 45545-2 (Risk level HL1 - HL3) IP20 -40 °C 125 °C (including heating up of contacts)		
Mechanical data Insertion/withdrawal cycles aterial specifications Flammability rating according to UL 94 Contact material Contact surface material Contact carrier material Standards/regulations Ambient conditions Degree of protection Ambient temperature (operation) andards and regulations	V0 Copper alloy Ag (alternatively Au) PC PC: Fire protection in rail vehicles - requirement sets R22, R23 and R24 acc. to DIN EN 45545-2 (Risk level HL1 - HL3) IP20 -40 °C 125 °C (including heating up of contacts) DIN EN 61984		



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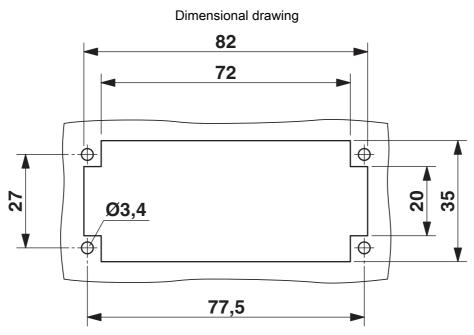
Tests	DIN EN 60664 IEC 60352	
Testing		
Standards/regulations	PC: Fire protection in rail vehicles - requirement sets R22, R23, and R24 acc. to DIN EN 45545-2 (Risk level HL1 - HL3)	



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Drawings



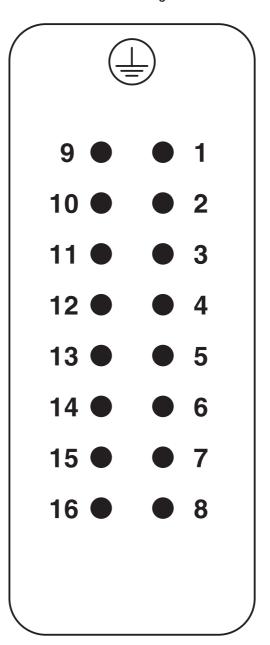
Mounting cutout when used without housing



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Schematic diagram



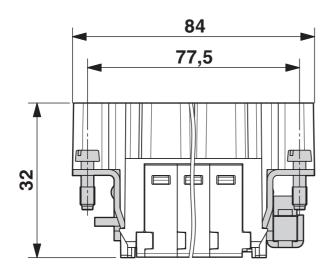
Connector pin assignment, connection side

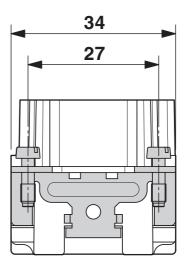


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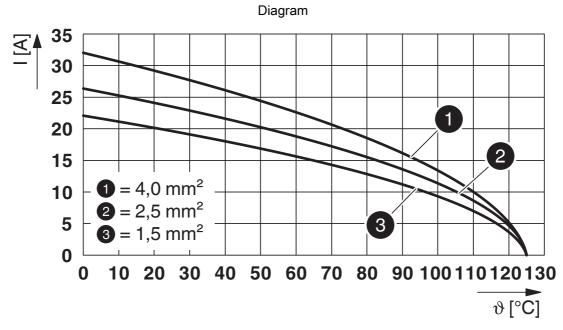


Dimensional drawing





Male insert



Derating diagram



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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1648270

DNV

Approval ID: TAE000037S

© CSA Approval ID: 013631_6233_01					
		Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
		600 V	20 A	20 - 12	-

c 921 us	CULus Recognized Approval ID: E468743				
		Nominal voltage U _N	Cross section AWG	Cross section mm ²	
		600 V	13 A	-	-

c 911 us	cULus Recognized Approval ID: E468743				
		Nominal voltage U_N	Nominal current I _N	Cross section AWG	Cross section mm ²
		600 V	14 A	-	-



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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				

39121500



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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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