

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	AF7ABC
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

Insulation characteristics

Overvoltage category	III
Degree of pollution	3

Dimensions

Dimensional drawing	84 77,5 27
Width	34 mm
Height	32 mm
Length	84 mm
Drill hole distance, horizontal	77.5 mm
Mechanical characteristics	
Contact diameter	2.5 mm

Connection data



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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 mm ² 4 mm ²
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

Electrical properties

Rated voltage (III/3)	500 V
Rated surge voltage	6 kV
Rated current	16 A
SCCR	5 kA (UL 2237)

Mechanical properties

Mechanical data

Insertion/withdrawal cycles	≥ 500
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Material specifications

Flammability rating according to UL 94	V0
Contact material	Copper alloy
Contact surface material	Ag (alternatively Au)
Contact carrier material	PC
Standards/regulations	PC

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-40 °C 125 °C (including heating up of contacts)

Standards and regulations

DIN EN 61984
DIN EN 60664
IEC 60352
DIN EN 61984
DIN EN 60664
IEC 60352

Testing



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

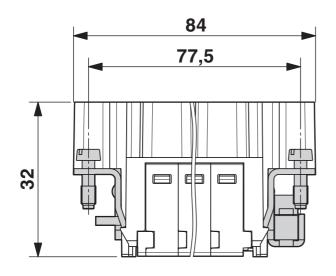


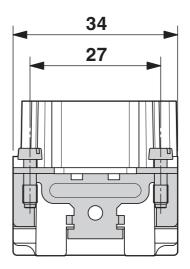
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Drawings

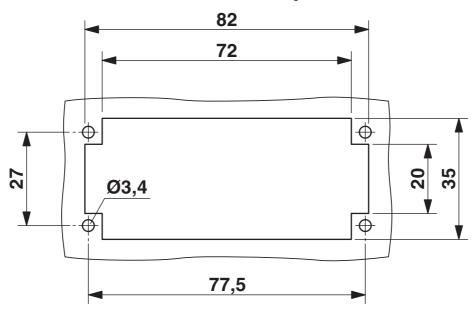
Dimensional drawing





Male insert

Dimensional drawing



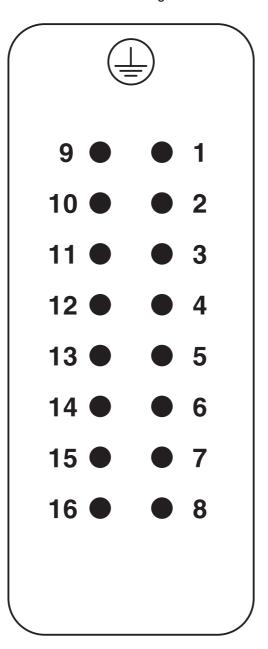
Mounting cutout when used without housing



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Schematic diagram

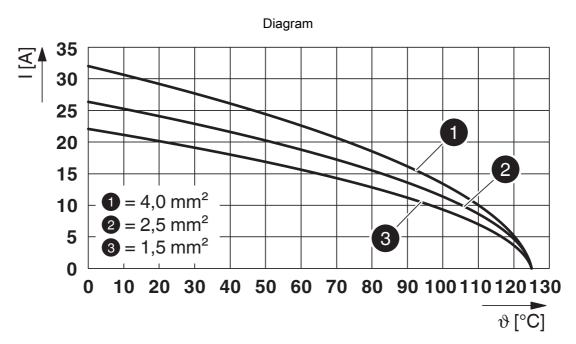


Connector pin assignment, connection side



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Derating diagram



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Approvals

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Approval ID: TAE000037S

1	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 911 us	cULus Recognized Approval ID: E468743				
		Nominal voltage U _N	Nominal current I _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-13.0	27440205	
ΕΊ	ТМ		
	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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Phoenix Contact USA 586 Fulling Mill Road Middletown, PA 17057, United States (+717) 944-1300 info@phoenixcon.com