

# HC-B 16-I-CT-M - Contact insert

1648270

<https://www.phoenixcontact.com/in/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 mm<sup>2</sup> ... 4 mm<sup>2</sup>, application: Power

## Your advantages

- For fast coding with plastic profile<br/>

## Commercial data

Item number	1648270
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF7
Product key	BF7ABC
Catalog page	Page 545 (C-2-2019)
GTIN	4046356092401
Weight per piece (including packing)	53.8 g
Weight per piece (excluding packing)	53 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 instructions	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.
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### Product properties

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

### Insulation characteristics

Overvoltage category	III
Degree of pollution	3

### Dimensions

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

### Mechanical characteristics

Contact diameter	2.5 mm
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### 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 <sup>2</sup> ... 4 mm <sup>2</sup>
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: 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

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

## Standards and regulations

Constructional and testing regulations	DIN EN 61984 DIN EN 60664 IEC 60352
Tests	DIN EN 61984 DIN EN 60664 IEC 60352

## Testing