

Contact insert - HC-B 16-I-UT-F

1648241

<https://www.phoenixcontact.com/us/products/1648241>



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HEAVYCON female insert, B16 series, 16-pos., screw connection



Your advantages

- For fast coding with plastic profile

- For test pin 2 mm

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Commercial Data

Item number	1648241
Packing unit	1 pc
Minimum order quantity	1 pc
Sales Key	B10
Product Key	BF7ABC
Catalog Page	Page 545 (C-2-2019)
GTIN	4046356092371
Weight per Piece (including packing)	91.6 g
Weight per Piece (excluding packing)	88 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.

Product properties

Type	B16 B32
Product type	Contact insert with a fixed no. of positions
Number of positions	16
Connection profile	16+PE
Application	Power
Number of connections per position	1
Contact type	turned
Series	HC-B
Screwdriver blade	0.5 x 3.5 mm

Insulation characteristics

Overvoltage category	III
Degree of pollution	3

Connection data

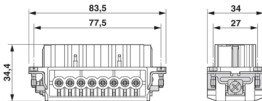
Connection technology

Connection technology	Screw connection
Number of connections per position	1
Connection in acc. with standard	IEC / EN

Conductor connection

Connection cross section AWG	20 ... 14
Tightening torque	0.5 Nm ... 0.8 Nm
Stripping length of the individual wire	8 mm

Dimensions

Dimensional drawing	
Width	34 mm
Height	34.6 mm
Length	84 mm
Drill hole distance, horizontal	77.5 mm
Drill hole distance, vertical	27 mm

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Mechanical characteristics

Contact diameter	2.5 mm
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Electrical properties

Rated voltage (III/3)	500 V
Rated surge voltage	6 kV
Rated current	20 A
SCCR	5 kA (UL 2237)

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)

Connector

Insertion/withdrawal cycles	≥ 500
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Cable / line

Cable structure

Stripping length of the individual wire	8 mm
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Mounting

Assembly instructions	To ensure correct use, installation in housing with IP54 protection or better is required
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Ambient conditions

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

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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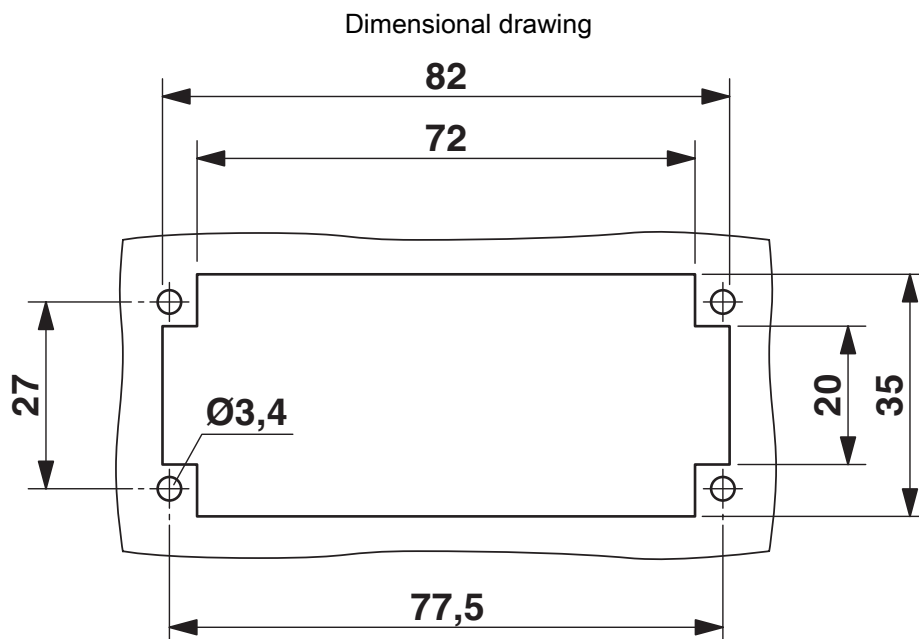
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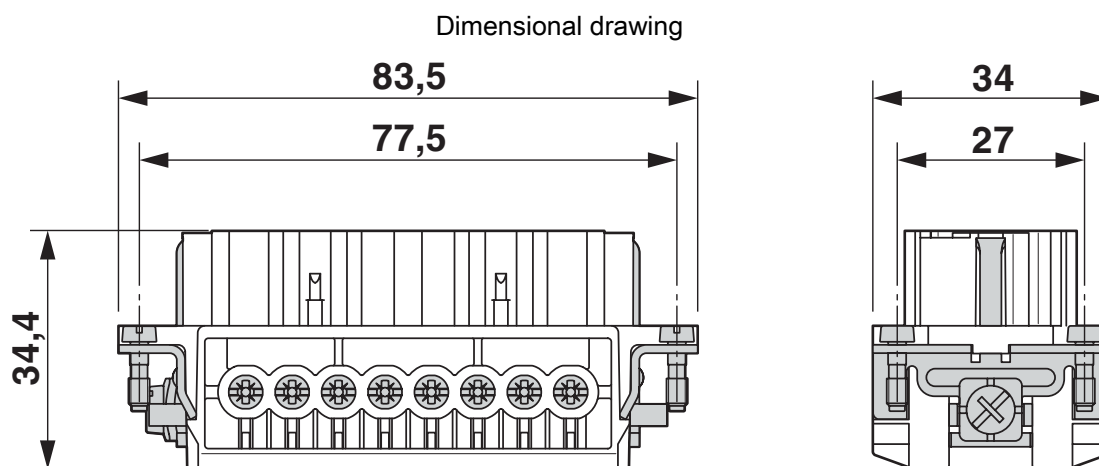
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Drawings



Mounting cutout when used without housing

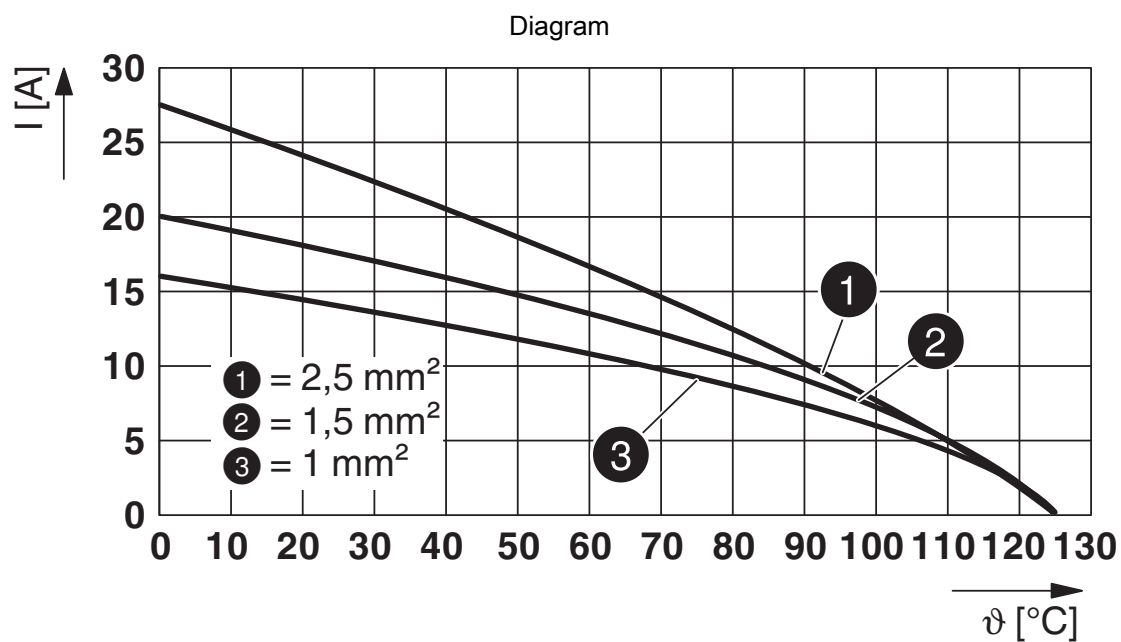


Female insert

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Derating diagram

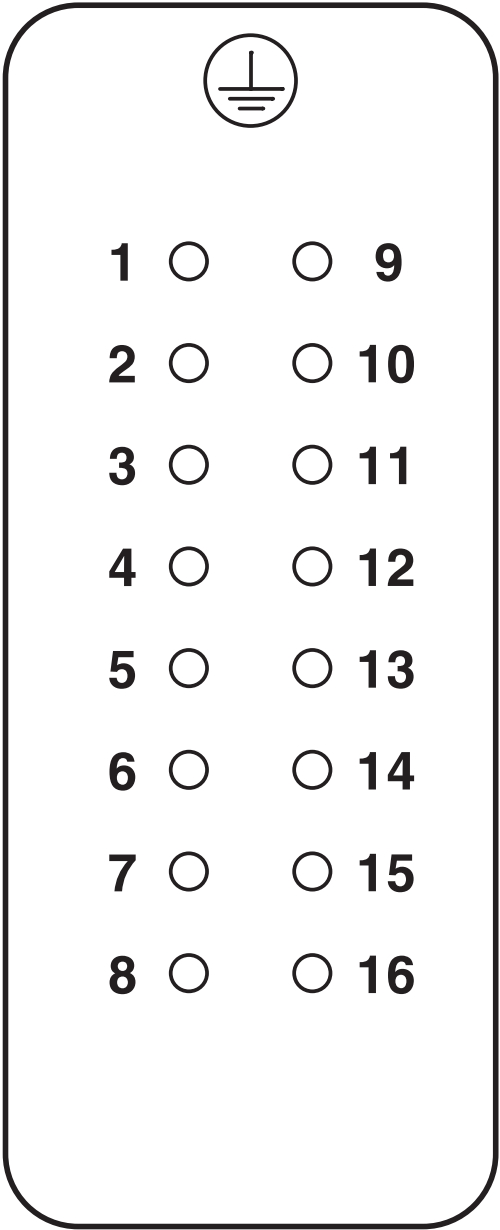
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Schematic diagram



Connector pin assignment, connection side

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Approvals

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	13 A	22 - 14	-



UL Recognized

Approval ID: FILE E 118976

	Nominal Voltage U_N	Nominal Current I_N	Cross Section AWG	Cross Section mm^2
	600 V	16 A	- 14	-



EAC

Approval ID: RU C-DE.AI30.B.01102



cULus Recognized

Approval ID: E468743

	Nominal Voltage U_N	Nominal Current I_N	Cross Section AWG	Cross Section mm^2
	600 V	14 A	- 14	-



EAC

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

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Classifications

ECLASS

ECLASS-9.0	27440205
ECLASS-10.0.1	27440205
ECLASS-11.0	27440205

ETIM

ETIM 8.0	EC000438
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UNSPSC

UNSPSC 21.0	39121500
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Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"

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Accessories

Coding profile

Coding profile - CP-HC - 1686478

<https://www.phoenixcontact.com/us/products/1686478>



Coding profile, 4 coding profiles per strip, for insertion in coding keyways

Coding bolt

Coding bolt - HC-CB - 1772722

<https://www.phoenixcontact.com/us/products/1772722>



Coding pin, prevents mismatching of up to six connectors with an identical number of positions

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Coding element

Coding element - HC-CST - 1676857

<https://www.phoenixcontact.com/us/products/1676857>



Coding peg for coding up to 16 connectors

Coding element

Coding element - HC-CBU - 1676860

<https://www.phoenixcontact.com/us/products/1676860>



Coding socket for coding up to 16 connectors

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Adapter

Adapter - HC-B-PE-PT - 1054672

<https://www.phoenixcontact.com/us/products/1054672>



PE adapter with PT connection, for 1 PE connection, for HC-B / HC-BB / HC-DD / HC-D40 / HC-D64 contact inserts

PE multiplier

PE multiplier - HC-B-2PE-PT - 1054675

<https://www.phoenixcontact.com/us/products/1054675>



PE adapter with PT connection, for 2 PE connections, for HC-B / HC-BB / HC-DD / HC-D40 / HC-D64 contact inserts

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PE multiplier

PE multiplier - HC-B-3PE - 1644326

<https://www.phoenixcontact.com/us/products/1644326>

PE multiplier, for 3 PE connections, for HC-B / HC-BB / HC-DD / HC-D40 / HC-D64 contact inserts



Screw

Screw - HC-B-PES - 1604997

<https://www.phoenixcontact.com/us/products/1604997>

PE screw, for contact inserts HC-B / HC-BB / HC-DD / HC-D40 / HC-D64



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Strain relief clamp

Strain relief clamp - HC-B-ZG - 1685327

<https://www.phoenixcontact.com/us/products/1685327>



Strain relief clamps contact inserts of series: B-, BB-, D 40, D 64, DD and HV, straight cable exit

Strain relief clamp

Strain relief clamp - HC-B-ZS - 1685330

<https://www.phoenixcontact.com/us/products/1685330>



Strain relief clamps contact inserts of series: B-, BB-, D 40, D 64, DD and HV, lateral cable exit

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DIN rail mounting frame

DIN rail mounting frame - HC-CIF-B16-HFWL-PL - 1424336

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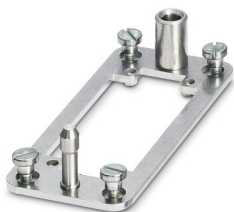


DIN rail mounting frame, type: B16, for contact inserts, Top frame

Docking frames

Docking frames - HC-B 16-ANDOCK - 1586138

<https://www.phoenixcontact.com/us/products/1586138>



Docking frame for racks, for contact inserts of B16 type, with four M5 flat headed screws, rack balance x/y axis ± 1.5 mm

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DIN rail mounting frame

DIN rail mounting frame - HC-CIF-B06-24-BFAFL-PL - 1424338

<https://www.phoenixcontact.com/us/products/1424338>

DIN rail mounting frame, type: B6 - B24, for contact inserts, Base frame



Adapter plate

Adapter plate - HC-B24/16-ADP-SS - 1034216

<https://www.phoenixcontact.com/us/products/1034216>

Adapter plate, type: B24 to B16



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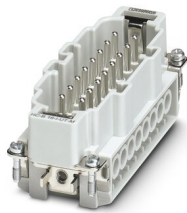
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Contact insert

Contact insert - HC-B 16-I-UT-M - 1648238

<https://www.phoenixcontact.com/us/products/1648238>



HEAVYCON male insert, B16 series, 16-pos., screw connection

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