

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

1648238

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



Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



Contact insert, number of positions: 16+PE, size: B16, number of connections per position: 1, Pin, Screw connection, 500 V, 16 A, 0.5 mm² ... 2.5 mm², application: Power

Your advantages

- For fast coding with plastic profile

- For test pin 2 mm

Commercial data

Item number	1648238
Packing unit	1 pc
Minimum order quantity	1 pc
Product key	BF7ABC
Catalog page	Page 545 (C-2-2019)
GTIN	4046356092364
Weight per piece (including packing)	83.9 g
Weight per piece (excluding packing)	83.9 g
Customs tariff number	85366990
Country of origin	CN

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

1648238

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



Technical data

Notes

General	for flexible conductors with or without ferrules
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
-----------------------	---

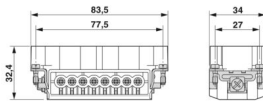
Product properties

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

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
Drill hole distance, vertical	27 mm

Mechanical characteristics

Contact diameter	2.5 mm
------------------	--------

Connection data

Connection technology

Connection technology	Screw connection
-----------------------	------------------

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



1648238

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

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

Conductor connection

Conductor cross section	0.5 mm ² ... 2.5 mm ²
Connection cross section AWG	20 ... 14
Tightening torque	0.8 Nm ... 1.2 Nm (PE connection)
	0.5 Nm ... 0.8 Nm (Mounting screws for mounting in the HEAVYCON housing)
	0.5 Nm ... 0.8 Nm
Stripping length of the individual wire	8 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
-----------------------------	-------

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

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)
-----------------------	---

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

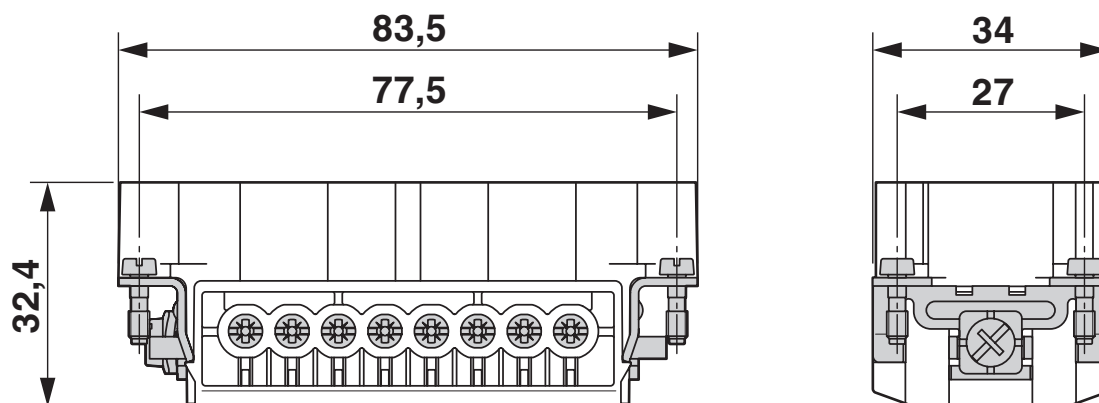
1648238

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



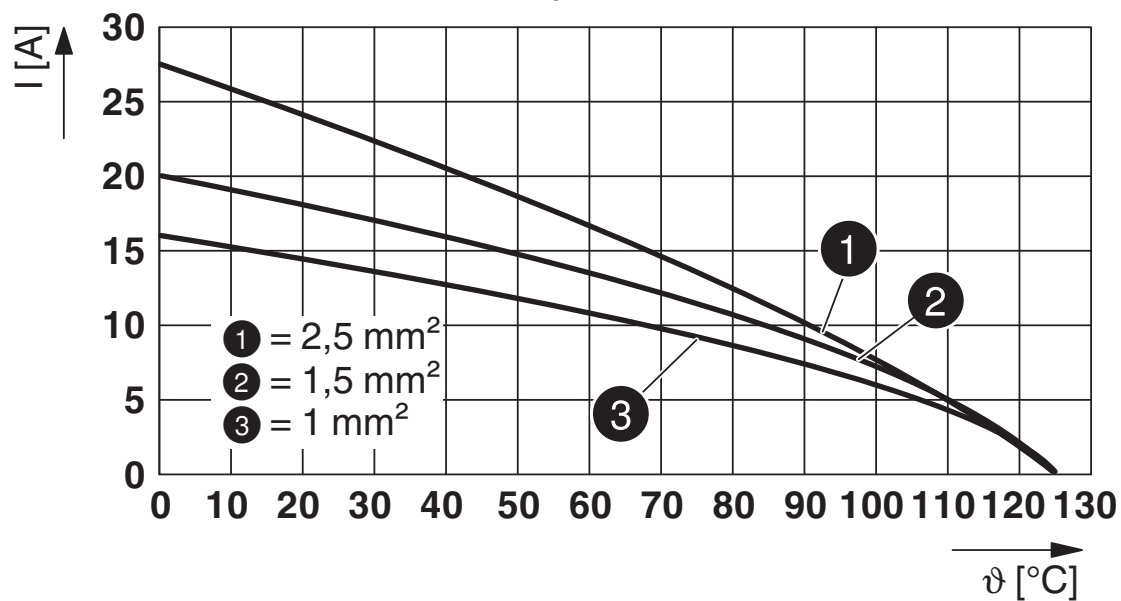
Drawings

Dimensional drawing



Male insert

Diagram



Derating diagram

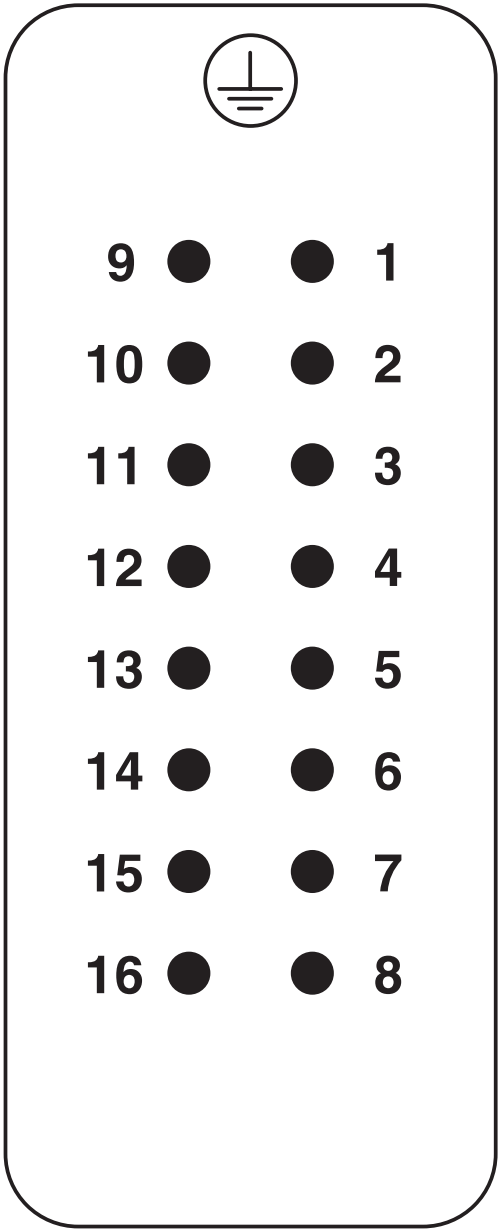
HC-B 16-I-UT-M - Contact insert

1648238

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



Schematic diagram



Connector pin assignment, connection side

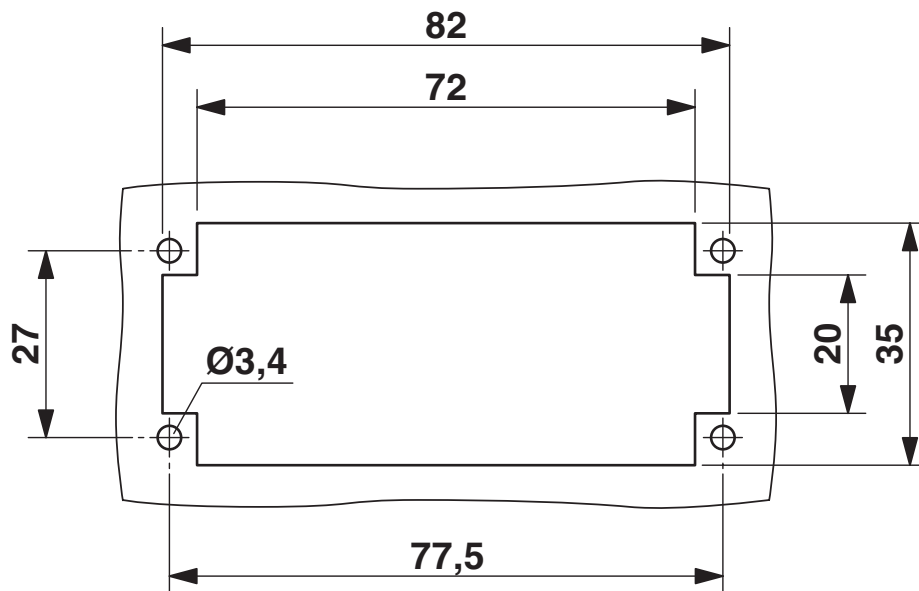
HC-B 16-I-UT-M - Contact insert

1648238

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



Dimensional drawing



Mounting cutout when used without housing

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



1648238

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

Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/pc/products/1648238>

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.BL08.B.00511



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	-

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

1648238

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



Classifications

ECLASS

ECLASS-11.0	27440205
ECLASS-12.0	27440205
ECLASS-13.0	27440205

ETIM

ETIM 9.0	EC000438
----------	----------

UNSPSC

UNSPSC 21.0	39121500
-------------	----------

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



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

Environmental product compliance

EU RoHS	
Fulfills EU RoHS substance requirements	Yes
Exemption	6(c)
China RoHS	
Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.
EU REACH SVHC	
REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
SCIP	13e37eda-afd2-4f3a-a0bd-97190e5b6c0e

Phoenix Contact 2024 © - all rights reserved
<https://www.phoenixcontact.com>

PHOENIX CONTACT GmbH & Co. KG
Flachsmarktstraße 8
D-32825 Blomberg
+49 (0) 5235-3 00
info@phoenixcontact.com