

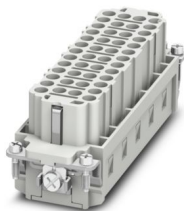
HC-BB46-I-CT-F 47-92 - Contact insert



1406545

<https://www.phoenixcontact.com/no/products/1406545>

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Contact insert, number of positions: 46+PE, size: B24, Socket, Crimp connection, 500 V, 16 A, 0.5 mm² ... 4 mm², application: Power

Your advantages

- For fast coding with plastic profile (Order No. 1410916, type CP-HC-S)

Commercial data

Item number	1406545
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	31BBF
Product key	BF7ABD
Catalog page	Page 555 (C-2-2019)
GTIN	4046356926331
Weight per piece (including packing)	91.1 g
Weight per piece (excluding packing)	75 g
Customs tariff number	85366990
Country of origin	CN

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Technical data

Notes

General	Connectors may be operated only when there is no load/voltage.
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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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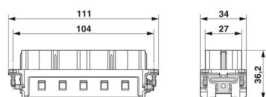
Product properties

Type	B24
	B48
Product type	Contact insert with a fixed no. of positions
Number of positions	46
Connection profile	46+PE
Contact numbering	47 - 92
Application	Power
Contact material type	turned
Series	HC-BB

Insulation characteristics

Overvoltage category	III
Degree of pollution	3

Dimensions

Dimensional drawing	
Width	34 mm
Height	32.5 mm
Length	111 mm
Drill hole distance, horizontal	104 mm
Drill hole distance, vertical	27 mm

Mechanical characteristics

Minimum housing height	72 mm
Contact diameter	2.5 mm

Connection data

Connection technology

Connection technology	Crimp connection
Connection in acc. with standard	IEC / EN

Conductor connection

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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 (power contacts)

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

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

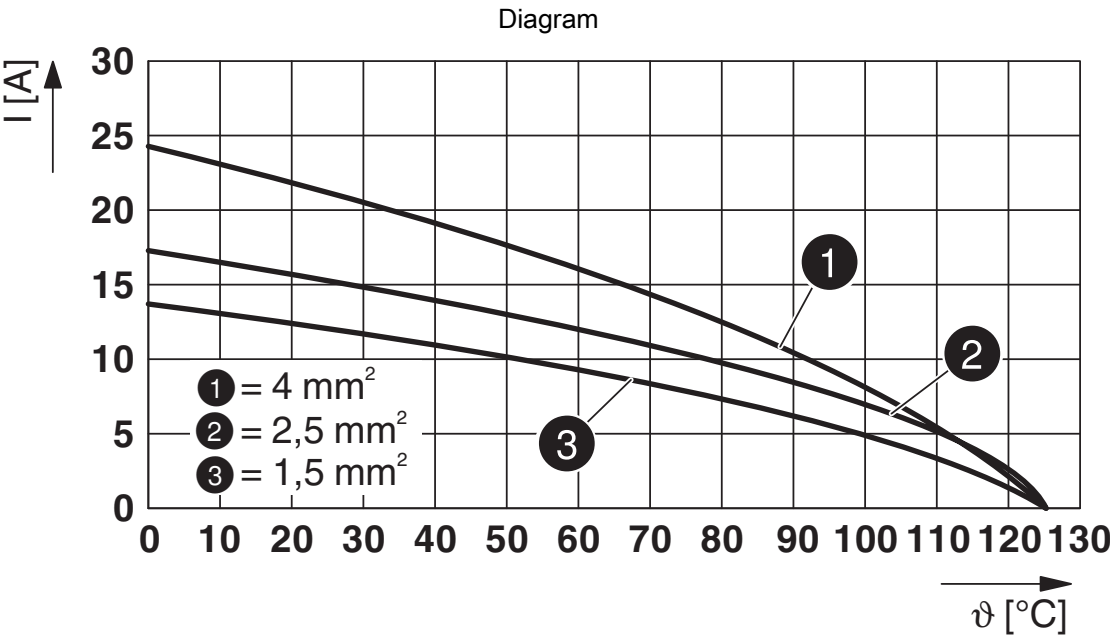
Testing

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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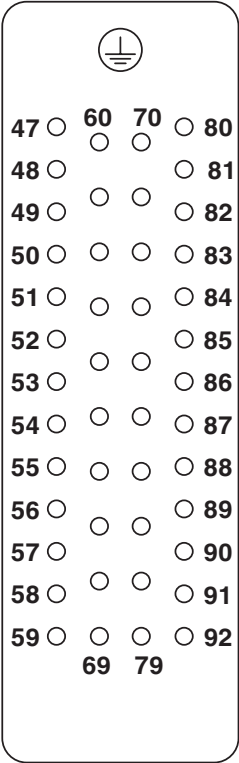
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Drawings



Derating diagram

Schematic diagram



Connector pin assignment, connection side

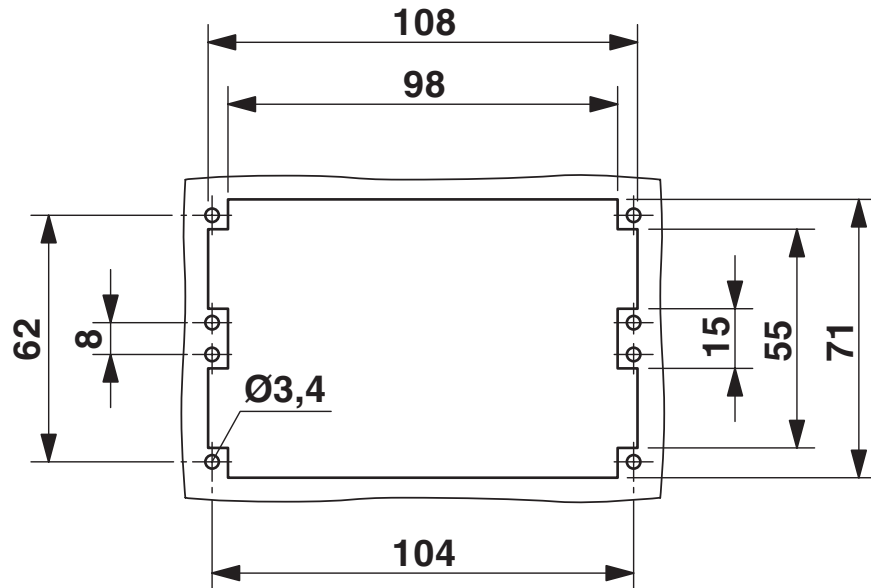
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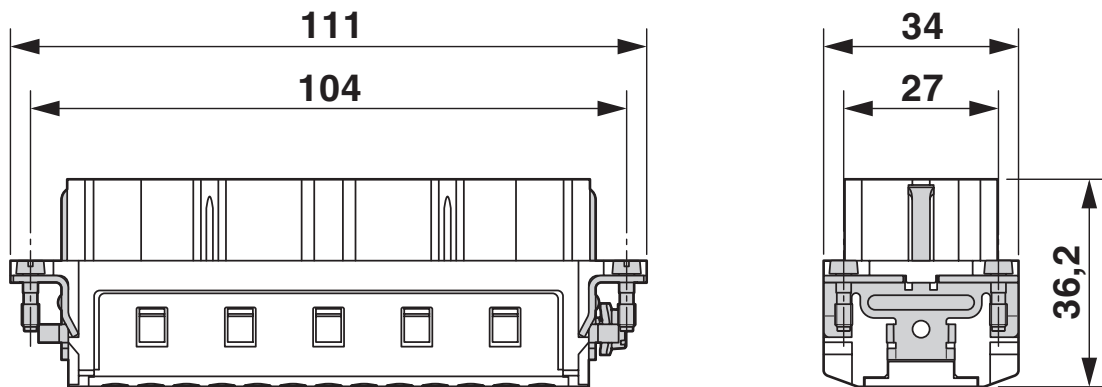


Dimensional drawing



Mounting cutout when used without housing

Dimensional drawing



Female insert

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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/no/products/1406545>

DNV

Approval ID: TAE000037S



CSA

Approval ID: 013631_0_000

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	600 V	13.5 A	- 12	-



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	- 12	-



EAC

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

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Classifications

ECLASS

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

ETIM

ETIM 9.0	EC000438
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UNSPSC

UNSPSC 21.0	39121500
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Environmental product compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

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