

# HC-BB46-I-CT-M 47-92 - Contact insert



1406546

<https://www.phoenixcontact.com/us/products/1406546>

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Contact insert, number of positions: 46+PE, size: B24, 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 (Order No. 1410916, type CP-HC-S)
- Shock and vibration-resistant in accordance with DIN EN 61373

## Commercial data

Item number	1406546
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF61
Product key	AF7ABD
GTIN	4046356926355
Weight per piece (including packing)	75.1 g
Weight per piece (excluding packing)	75 g
Customs tariff number	85366990
Country of origin	CN

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## Technical data

### Mounting

Assembly note	To ensure correct use, installation in housing with IP54 protection or better is required
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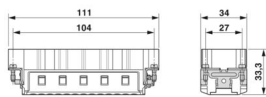
### Product properties

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

### Insulation characteristics

Overvoltage category	III
Degree of pollution	3

### Dimensions

Dimensional drawing	
Width	34 mm
Height	33.2 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

Conductor cross-section	0.5 mm <sup>2</sup> ... 4 mm <sup>2</sup>
Connection cross section AWG	20 ... 12

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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

## 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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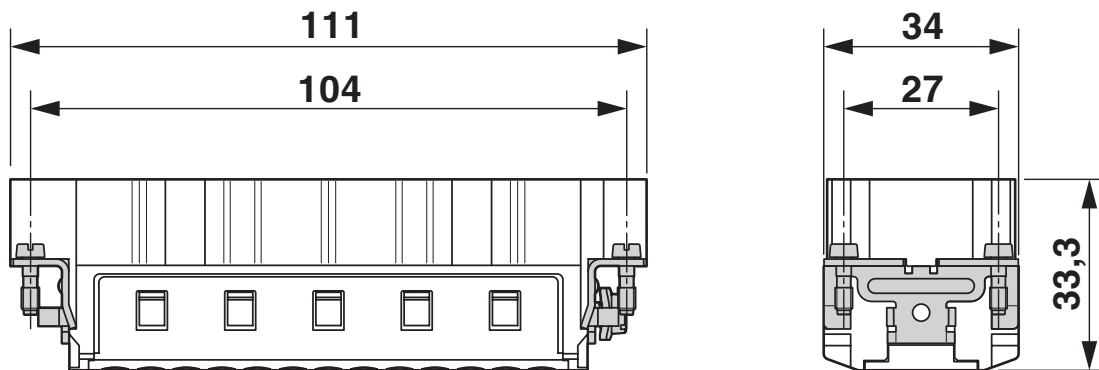
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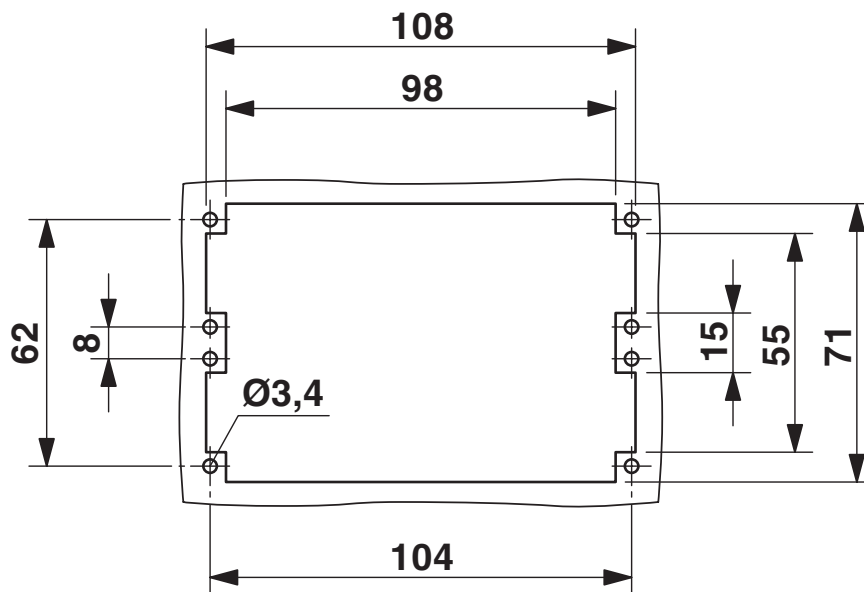
## Drawings

Dimensional drawing



Male insert

Dimensional drawing



Mounting cutout when used without housing

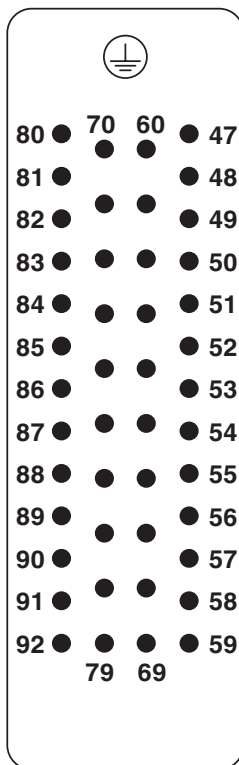
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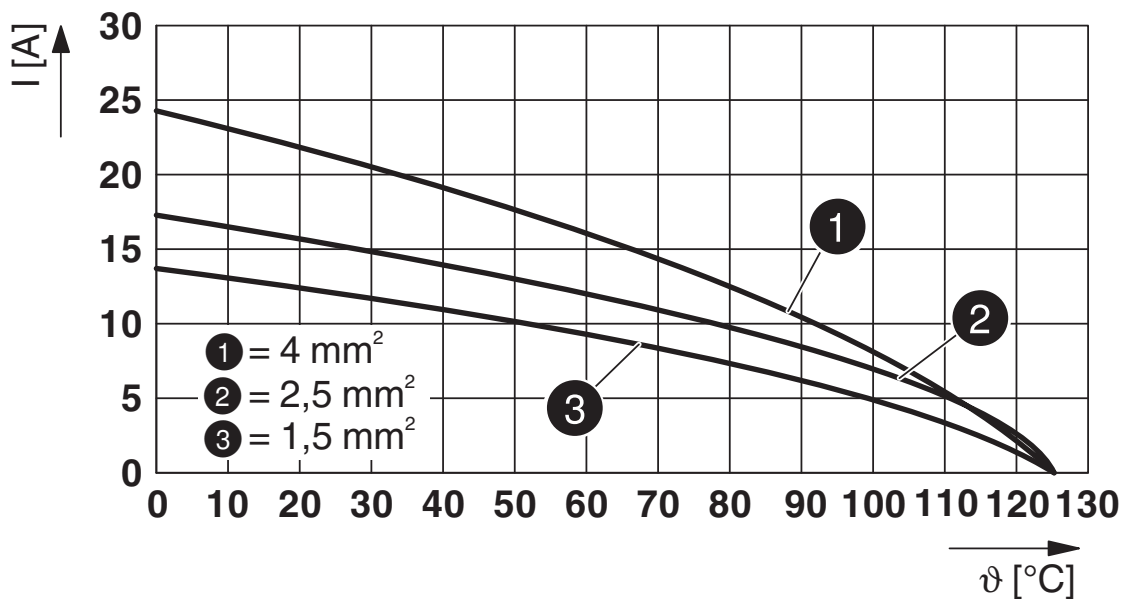
<https://www.phoenixcontact.com/us/products/1406546>

Schematic diagram



Connector pin assignment, connection side

Diagram



Derating diagram

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1406546>

### DNV

Approval ID: TAE000037S



### CSA

Approval ID: 013631\_0\_000

	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
keine				
	600 V	13.5 A	- 12	-



### UL Recognized

Approval ID: E118976

	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
keine				
	600 V	16 A	- 12	-

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## Classifications

### ECLASS

ECLASS-13.0	27440205
ECLASS-15.0	27440205

### ETIM

ETIM 10.0	EC000438
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### UNSPSC

UNSPSC 21.0	39121500
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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
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### 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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