

HC-BB 46-ESTC - Contact insert

1687503

<https://www.phoenixcontact.com/gb/products/1687503>

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HEAVYCON male insert, BB46 series, 46-pos., crimp connection



Commercial data

Item number	1687503
Packing unit	1 pc
Minimum order quantity	1 pc
Product key	AF7ABD
GTIN	4017918609474
Weight per piece (including packing)	81.11 g
Weight per piece (excluding packing)	77.6 g
Country of origin	RO

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Technical data

Notes

General	For HEAVYCON ADVANCE and HEAVYCON housing of B24 type, crimp contacts CK 2,5-ED (crimp contacts not included in the scope of supply).
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Mounting

Assembly note	- Housing heights of $h \geq 72$ mm are recommended when there is a high number of wires. Connectors may only be inserted when there is no load/the power is switched off. Crimp contacts removed using the removal tool (1662722)
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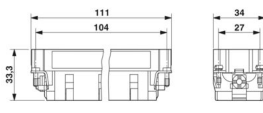
Product properties

Product type	Contact insert with a fixed no. of positions
Series	HC-BB
Type	B24 B48
Number of positions	46
Connection profile	46+PE
Contact numbering	1 - 46
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

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Connection technology

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

Conductor connection

Conductor cross section	0.5 mm ² ... 4 mm ²
Connection cross section AWG	20 ... 12
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

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

Environmental and real-life conditions

Ambient conditions

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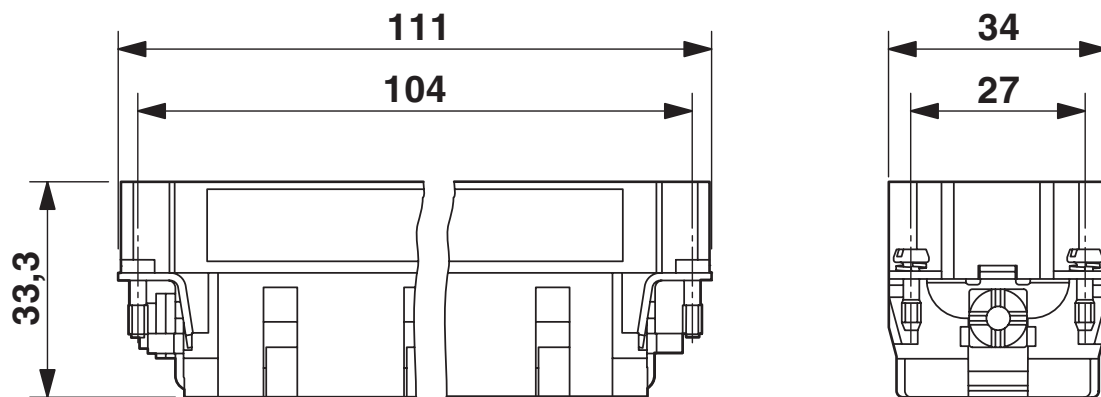


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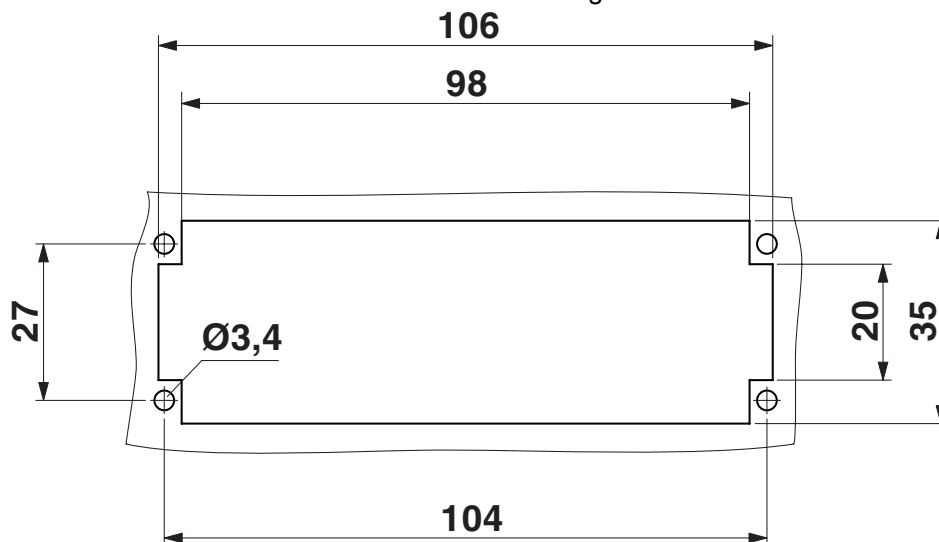
Drawings

Dimensional drawing



Male insert

Dimensional drawing



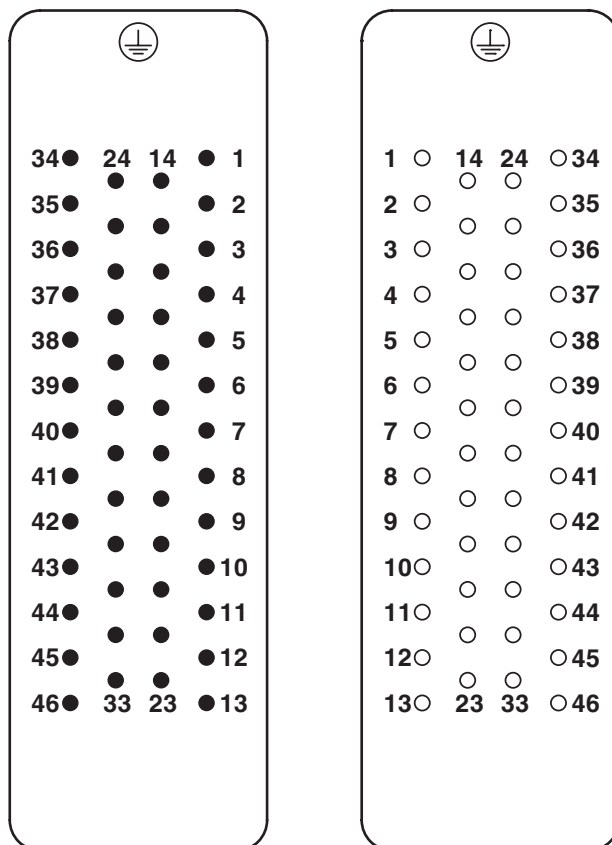
Mounting cutout

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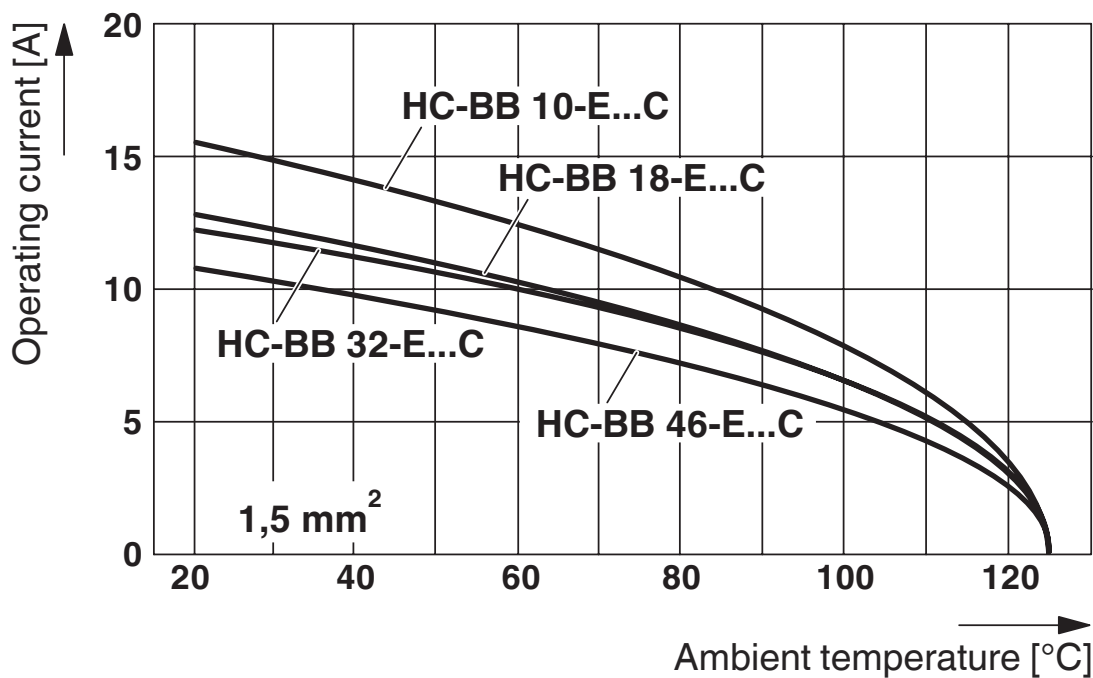
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Schematic diagram



Connector pin assignment: Left pin - right socket

Diagram

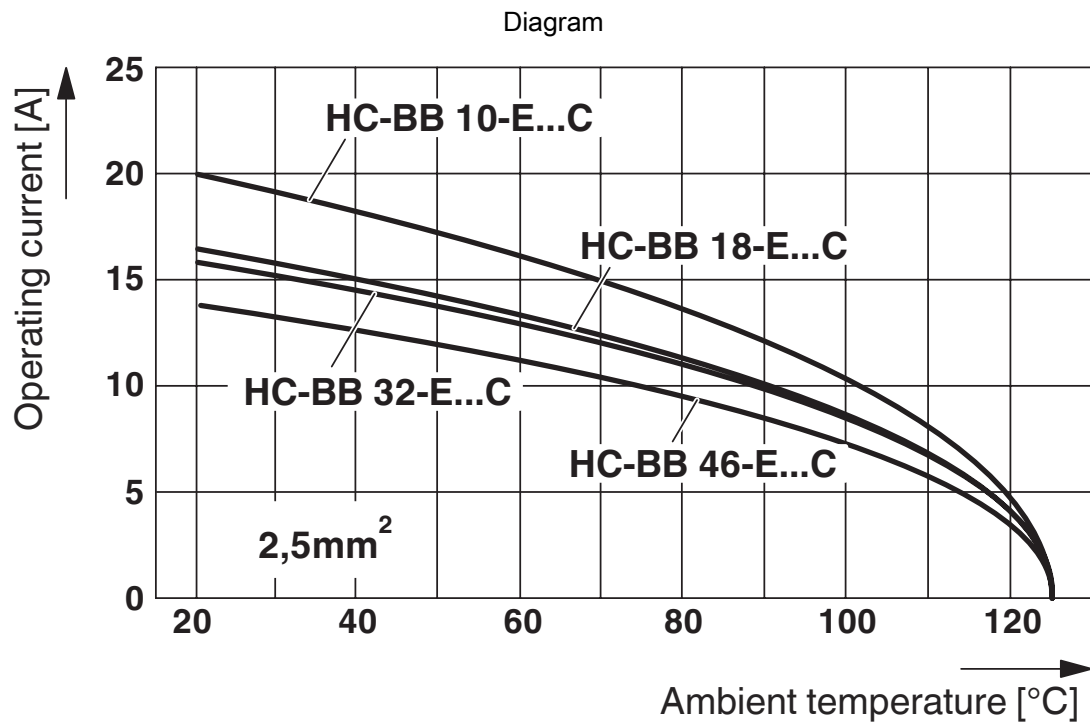


Derating diagram: Conductor cross-section 2.5 mm²

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Derating diagram: Conductor cross-section 2.5 mm²

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Classifications

ECLASS

ECLASS-13.0	27440205
ECLASS-15.0	27440205

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Environmental product compliance

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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