

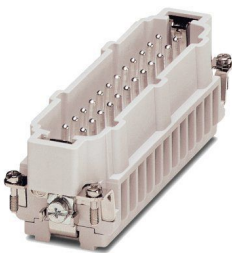
HC-B 24-ESTS - Contact insert

1771749

<https://www.phoenixcontact.com/us/products/1771749>



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HEAVYCON male insert, B24 series, 24-pos., screw connection

Commercial data

Item number	1771749
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	BF61
Product key	BF7ABC
Catalog page	Page 345 (PC-2007)
GTIN	4017918036461
Weight per piece (including packing)	137.98 g
Weight per piece (excluding packing)	135.45 g
Customs tariff number	85366990
Country of origin	DE

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Technical data

Notes

General	For housing HC-B24
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Mounting

Assembly note	For housings of type B16/B32. Connectors may only be actuated when there is no load/voltage.
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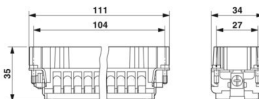
Product properties

Product type	Contact insert with a fixed no. of positions
Type	B24
Number of positions	24
Connection profile	24+PE

Insulation characteristics

Overvoltage category	III
Degree of pollution	3

Dimensions

Dimensional drawing	
Width	34 mm
Height	35.5 mm
Length	111 mm

Connection data

Connection technology

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

Conductor connection

Conductor cross section	0.5 mm ² ... 2.5 mm ² (applies to stranded conductors with ferrules) 0.5 mm ² ... 4 mm ² (PE screw)
Connection cross section AWG	20 ... 14 20 ... 12 (PE screw)
Tightening torque	0.5 Nm
Stripping length of the individual wire	7 mm

Electrical properties

Rated voltage (III/3)	500 V
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Rated surge voltage	6 kV
Rated current	16 A

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	PA

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 VDE 0627/86
	DIN VDE 0110/02.79
	DIN VDE 0110-1/04.97
	IEC 60664-1, DIN IEC 60512
	IEC 60352
Tests	DIN VDE 0627/86
	DIN VDE 0110/02.79
	DIN VDE 0110-1/04.97
	IEC 60664-1, DIN IEC 60512
	IEC 60352

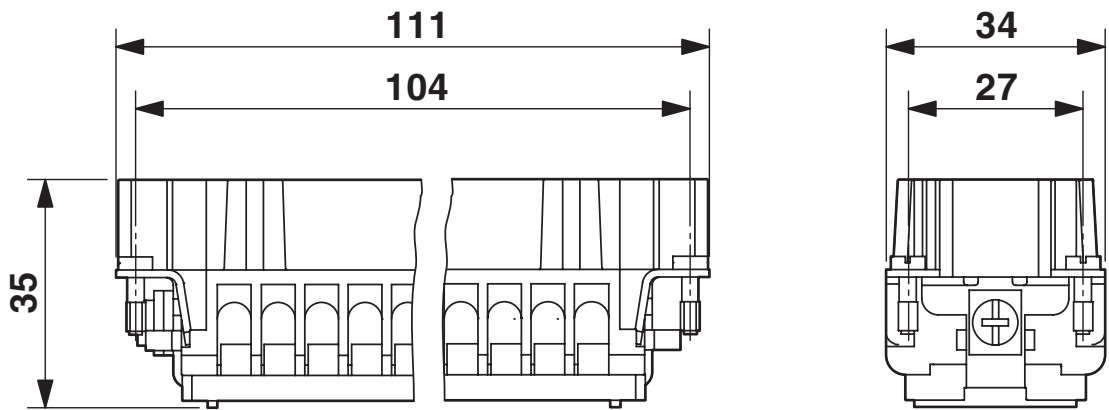
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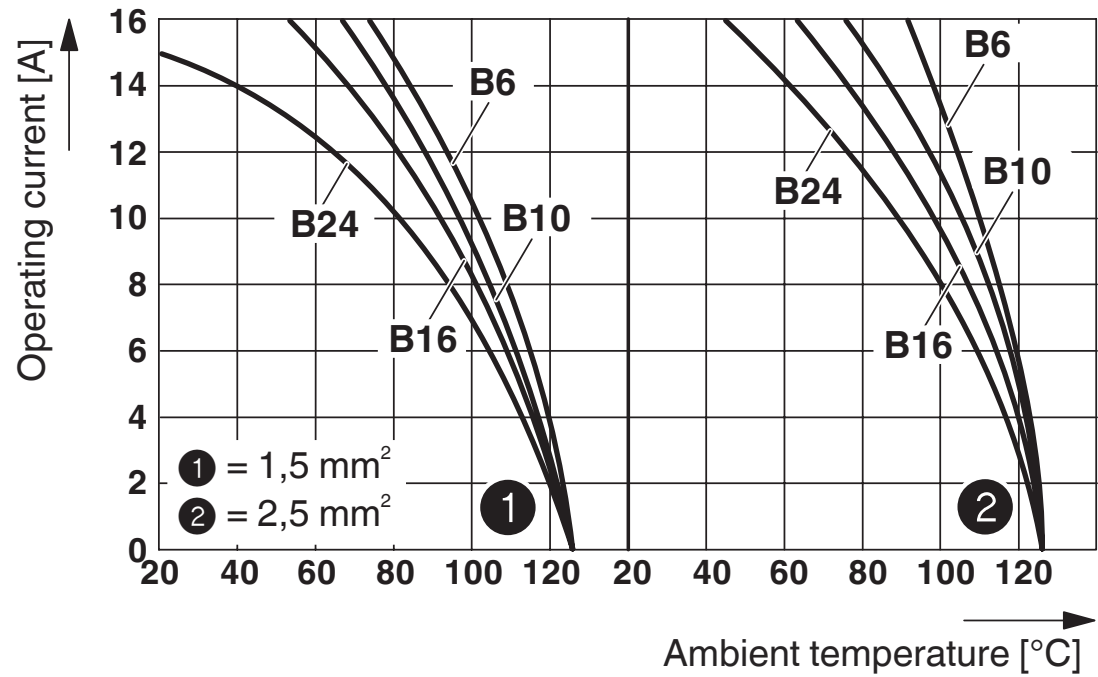
Drawings

Dimensional drawing



Male insert

Diagram



Derating diagram

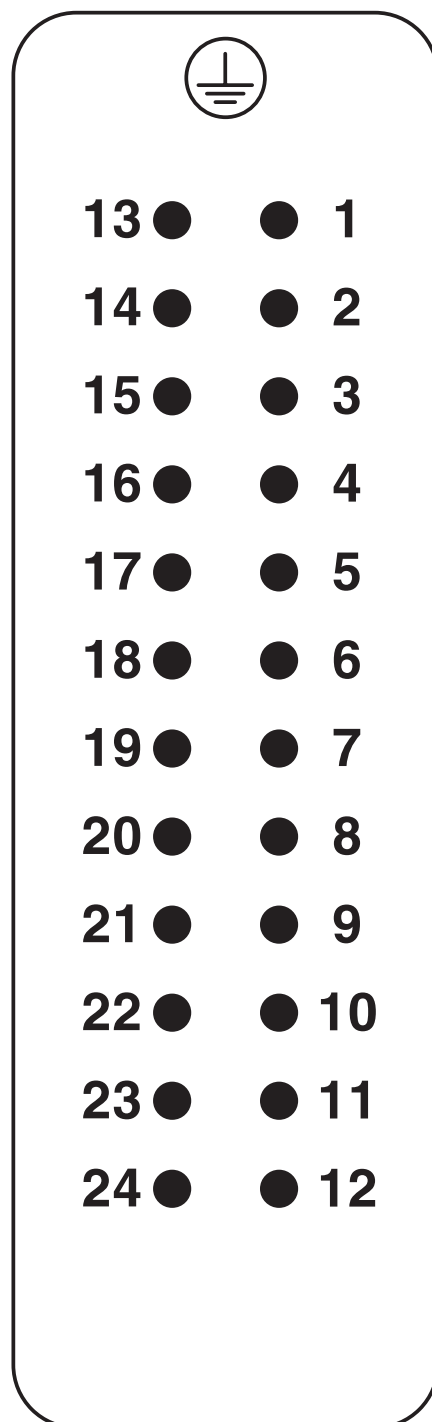
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Schematic diagram



Connector pin assignment, connection side

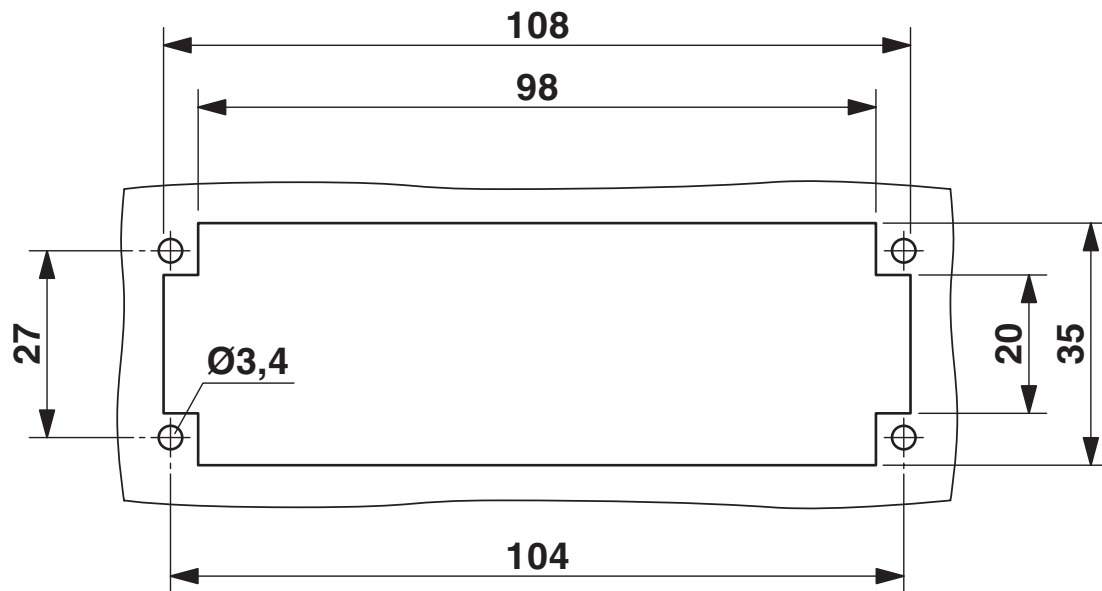
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Dimensional drawing



Mounting cutout

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Classifications

ECLASS

ECLASS-11.0	27440205
ECLASS-13.0	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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Accessories

HC-B-PES - Screw

1604997

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

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



HC-CST - Coding element

1676857

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

Coding peg for coding up to 16 connectors



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HC-CBU - Coding element

1676860

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



Coding socket for coding up to 16 connectors

HC-CB - Coding bolt

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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HC-B-3PE - PE multiplier

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



HC-B-ZG - Strain relief clamp

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



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HC-B-ZS - Strain relief clamp

1685330

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

HC-SMR-B24 - DIN rail mounting frame

1687985

<https://www.phoenixcontact.com/us/products/1687985>



HEAVYCON DIN rail mounting frame, for contact inserts of type B24

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