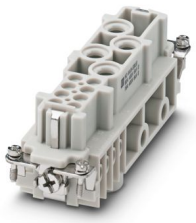
HC-K 4/8-EBUS - Contact insert

1679320

https://www.phoenixcontact.com/us/products/1679320

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Contact insert, number of positions: 4+8+2PE, size: B24, power contacts: 4, control contacts: 8, Socket, Screw connection, 500 V, 80 A, 1.5 mm^2 ... 16 mm^2

Your advantages

- Shock and vibration-resistant in accordance with DIN EN 61373

Commercial data

Item number	1679320
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF61
Product key	AF7ABA
GTIN	4017918163563
Weight per piece (including packing)	148.5 g
Weight per piece (excluding packing)	148.5 g
Customs tariff number	85366990
Country of origin	CN

Technical data

Notes

General	For housing HC-B24
General	Connectors may be operated only when there is no load/voltage.

Mounting

Assembly note	To ensure correct use, installation in housing with IP54 protection or better is required
	Use wire end protection (screw connections do not have wire protection)

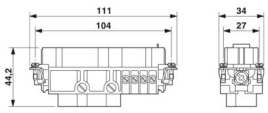
Product properties

Product type	Contact insert with a fixed no. of positions
Series	HC-K
Type	B24
	B48
Number of positions	12
Connection profile	4+8+2PE
Contact numbering	1 - 4 (power contacts)
	1 - 8 (control contacts)
No. of power contacts	4
No. of control contacts	8
Contact material type	turned
Screwdriver blade	0.8 x 4.5 mm (power contacts)

Insulation characteristics

Overvoltage category	III
Degree of pollution	3

Dimensions

Dimensional drawing	
Width	34 mm
Height	44.2 mm
Length	111 mm
Drill hole distance, horizontal	104 mm

Mechanical characteristics

Contact diameter	6 mm

Connection data

Connection technology

Connection technology	Screw connection (power contacts)
	Screw connection (control contacts)

Conductor connection

Conductor cross-section	1.5 mm² ... 16 mm² (power contacts)
	0.5 mm² ... 2.5 mm² (control contacts)
Connection cross section AWG	16 ... 6 (power contacts)
	20 ... 14 (control contacts)
Tightening torque	0.8 Nm ... 1.2 Nm (PE connection)
	0.5 Nm ... 0.8 Nm (Mounting screws for mounting in the HEAVYCON housing)
	2 Nm (Power contact, 2.5 mm²)
	3 Nm (Power contact, 4 ... 16 mm²)
	1.2 Nm (Power contact, 1.5 mm²)
	0.5 Nm (control contacts)
Stripping length of the individual wire	14 mm (Power)
	7 mm (Signal)

Electrical properties

Rated voltage (III/3)	500 V (power contacts)
	400 V (control contacts)
Rated surge voltage	6 kV (power contacts)
	6 kV (control contacts)
Rated current	80 A (power contacts)
	16 A (control contacts)

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 (alternatively Au)
Contact carrier material	PA
Material of contact surface, power contact	Ag
Material of contact surface, control contact	Ag

Environmental and real-life conditions

Ambient conditions

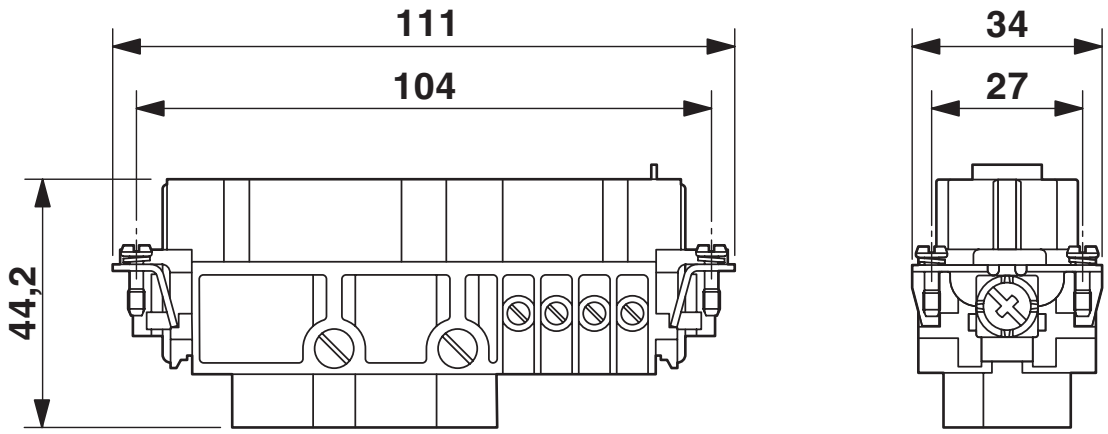
Ambient temperature (operation) (Operation)	-40 °C ... 125 °C

Standards and regulations

Standards/regulations	PC: Fire protection in rail vehicles - requirement set R22 acc. to DIN EN 45545-2 (Risk level HL1 - HL2)
	PC: Fire protection in rail vehicles - requirement set R23 acc. to DIN EN 45545-2 (Risk level HL1 - HL3)

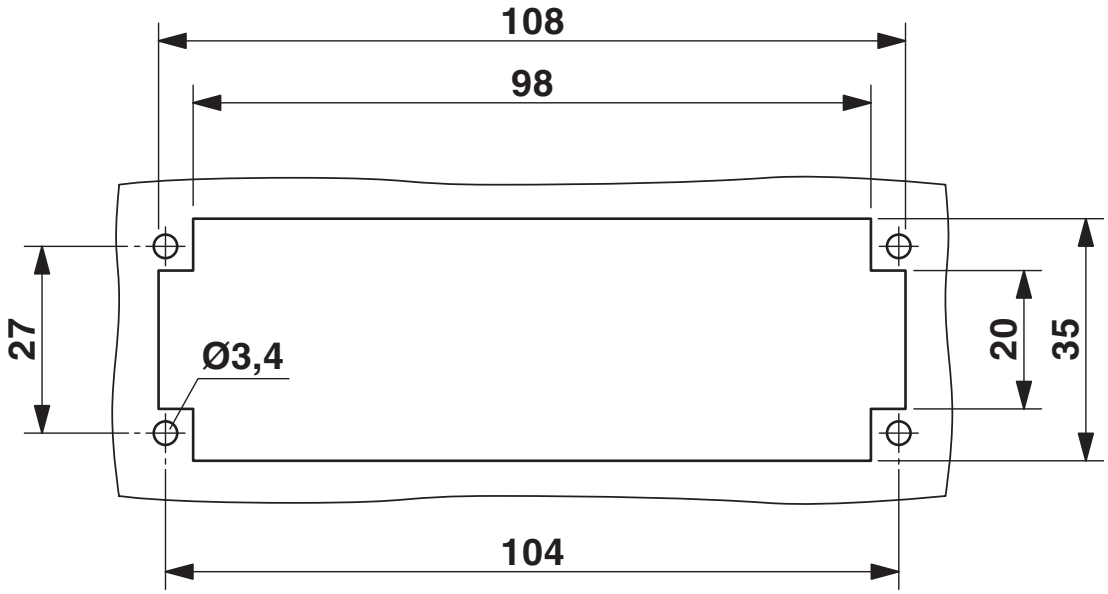
Drawings

Dimensional drawing



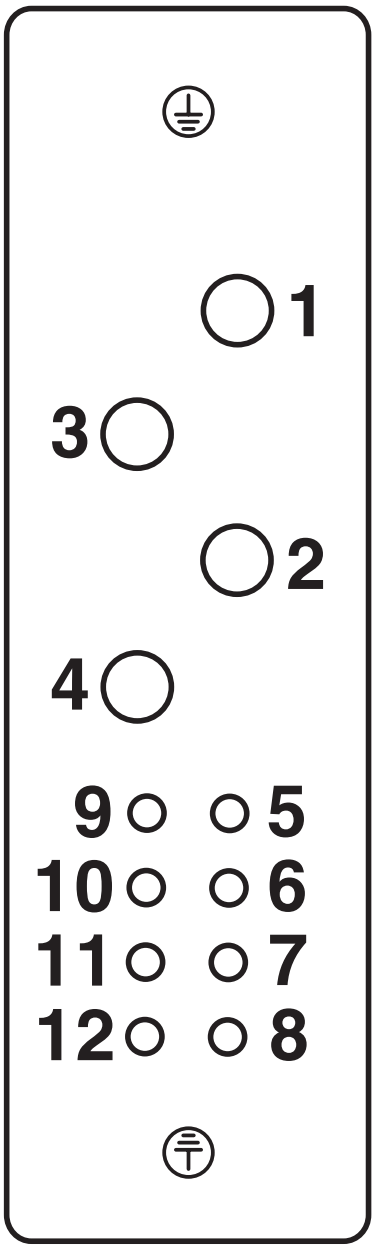
Female insert

Dimensional drawing



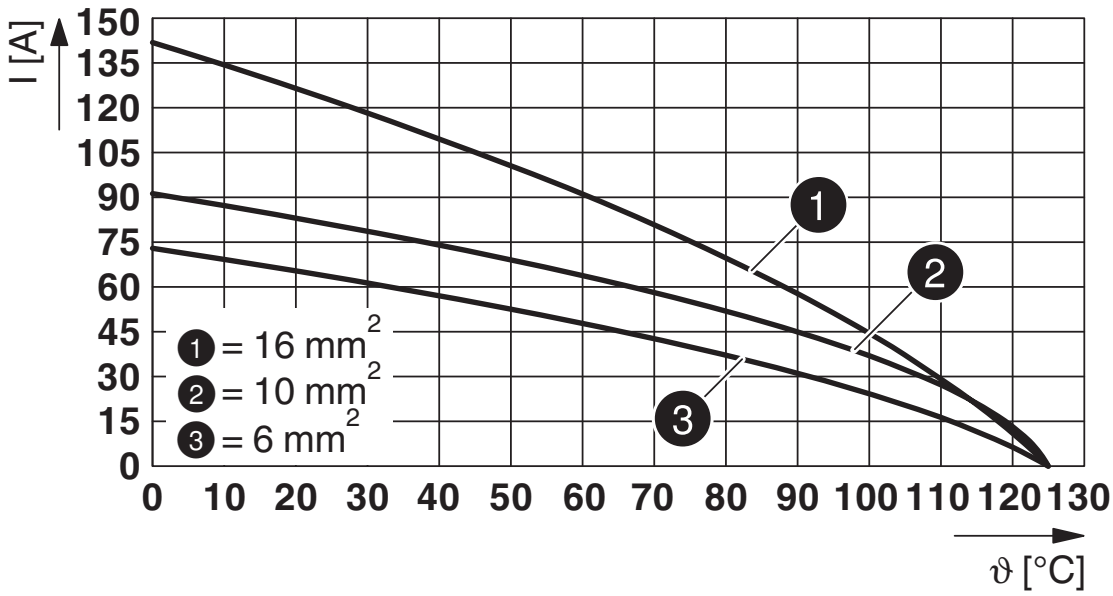
Mounting cutout when used without housing

Schematic diagram



Connector pin assignment, connection side

Diagram



Derating diagram

Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1679320

UL Recognized
Approval ID: E118976

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
keine				
Power	600 V	80 A	- 6	-
Control	600 V	16 A	14	-

Classifications

ECLASS

ECLASS-13.0	27440205
ECLASS-15.0	27440205

ETIM

ETIM 10.0	EC000438

UNSPSC

UNSPSC 21.0	39121500

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	3a677db2-7446-4aa1-be3c-731b60fb70e6

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