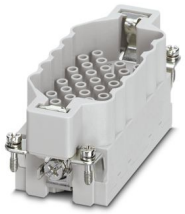
HC-BBB 40-ESTC - Contact insert

1409921

https://www.phoenixcontact.com/us/products/1409921

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Contact insert, number of positions: 40+PE, size: B16, number of connections per position: 1, Pin, Crimp connection, 500 V, 16 A, 0.5 mm^2 ... 4 mm^2

Your advantages

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

Commercial data

Item number	1409921
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF61
Product key	AF7ABK
GTIN	4046356767231
Weight per piece (including packing)	60.8 g
Weight per piece (excluding packing)	60.1 g
Customs tariff number	85366990
Country of origin	CN

Technical data

Notes

General	For HEAVYCON ADVANCE and HEAVYCON housing of B16 type, crimp contacts CK 2,5-ED (crimp contacts not included in the scope of supply).
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

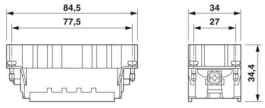
Product properties

Product type	Contact insert with a fixed no. of positions
Series	HC-BBB
Type	B16
	B32
Number of positions	40
Connection profile	40+PE
Contact numbering	1 - 40
Number of connections per position	1
Contact material type	turned

Insulation characteristics

Overvoltage category	III
Degree of pollution	3

Dimensions

Dimensional drawing	
Width	34 mm
Height	34.4 mm
Length	84.5 mm
Drill hole distance, horizontal	77.5 mm
Drill hole distance, vertical	27 mm

Mechanical characteristics

Minimum housing height	76 mm
Contact diameter	2.5 mm

Connection data

Connection technology

Connection technology	Crimp connection

Number of connections per position	1
Connection in acc. with standard	IEC / EN

Conductor connection

Conductor cross-section	0.5 mm² ... 4 mm²
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

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	PC

Environmental and real-life conditions

Ambient conditions

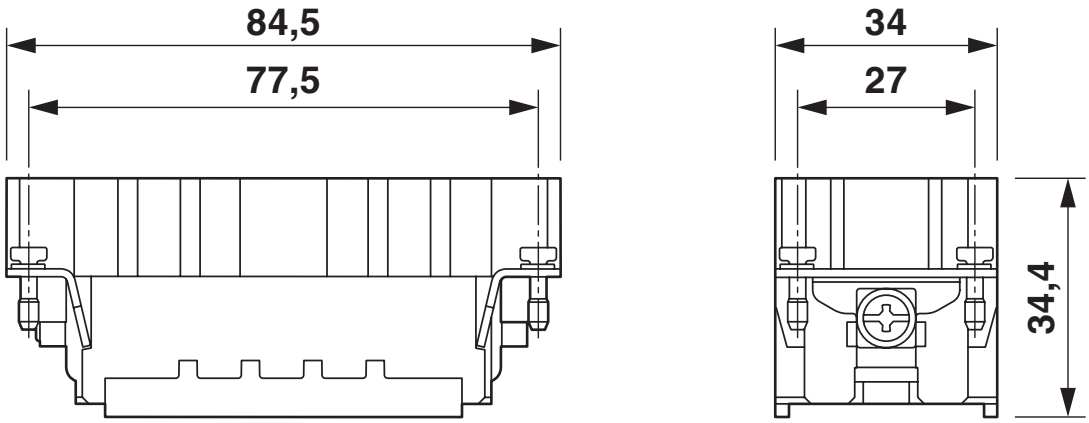
Ambient temperature (operation)	-40 °C ... 125 °C (including heating up of contacts)

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)

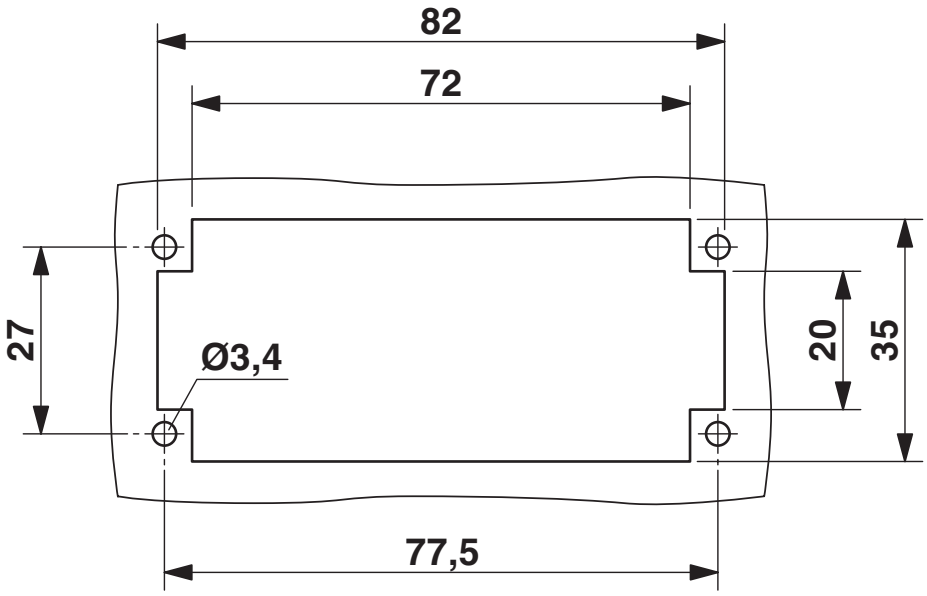
Drawings

Dimensional drawing



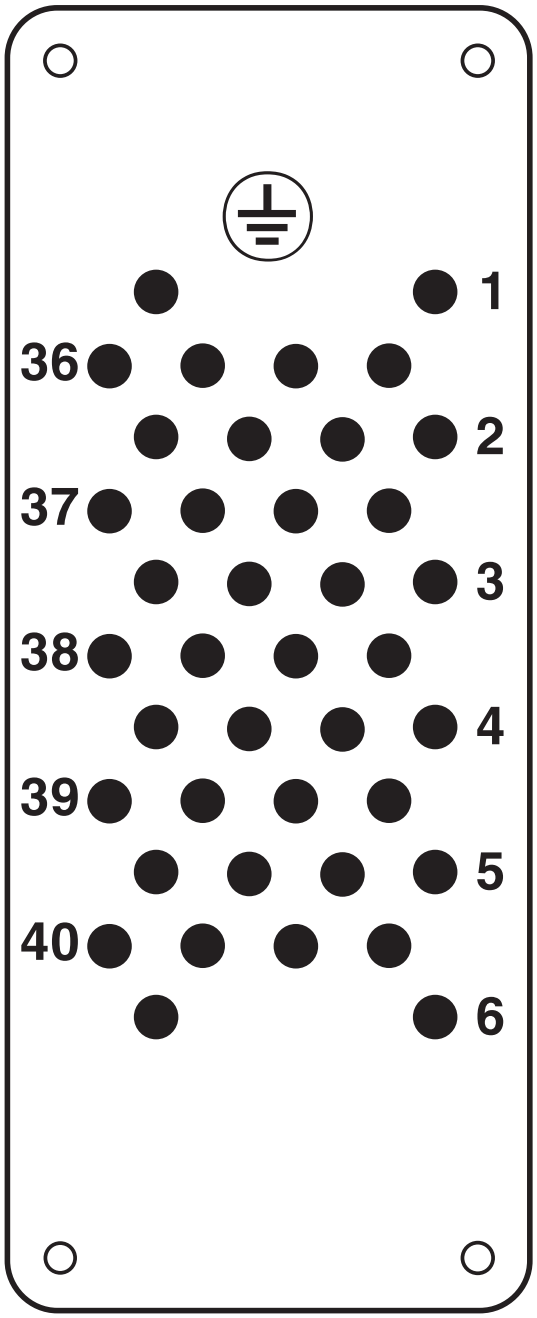
Dimensional drawing

Dimensional drawing



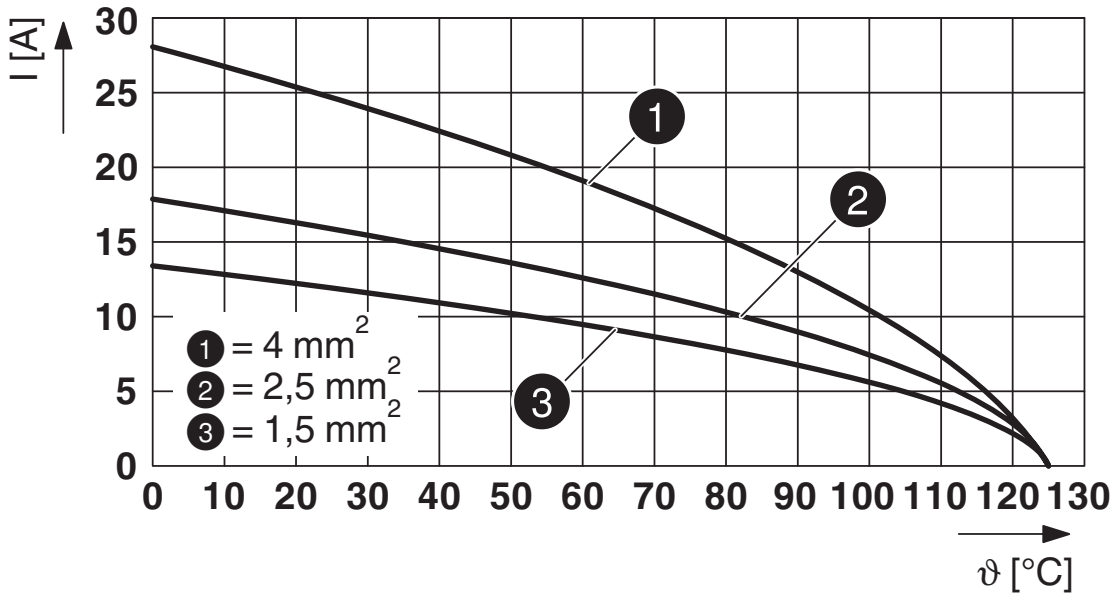
Mounting cutout when used without housing

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/1409921

DNV
Approval ID: TAE000037S

UL Recognized
Approval ID: E118976

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
keine				
	600 V	16 A	- 12	-

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, No exemptions

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%

EF3.1 Climate Change

CO2e kg	7.555 kg CO2e

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