HC-K 6/0-ESTS - Contact insert

1580538

https://www.phoenixcontact.com/us/products/1580538

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Contact insert, number of positions: 6+PE, size: B16, power contacts: 6, control contacts: 0, Pin, Screw connection, 1000 V, 80 A, 6 mm^2 ... 16 mm^2, application: Power

Your advantages

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

Commercial data

Item number	1580538
Packing unit	10 pc
Minimum order quantity	1 pc
Sales key	BF61
Product key	AF7ABA
GTIN	4046356463348
Weight per piece (including packing)	151.4 g
Weight per piece (excluding packing)	151.4 g
Customs tariff number	85366990
Country of origin	DE

Technical data

Notes

General	For HEAVYCON ADVANCE and HEAVYCON housing type B16/B32; screw head shape of connection screws: Allen screws, wrench size 3 mm.
General	Connectors may be operated only when there is no load/voltage.
General	Flexible conductors may be used without ferrules as long as they comply with IEC 60228 Class 1 ... 5.
Note on UL requirements	Intended for use with conductors rated 167°F (75°C) or higher
Note on UL requirements	UL2237 "Suitable For Use On A Circuit Capable Of Delivering Not More Than 5000 rms Symmetrical Amperes, 600 V Maximum When Protected by Maximum Overcurrent Protection, non-time delay RK5 class fuses, as specified in Technical Considerations"

Mounting

Assembly note	To ensure correct use, installation in housing with IP54 protection or better is required
	For housing type B16.

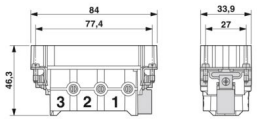
Product properties

Product type	Contact insert with a fixed no. of positions
Series	HC-K
Application	Power
Type	B16
	B32
Number of positions	6
Connection profile	6+PE
Contact numbering	1 - 6
No. of power contacts	6
No. of control contacts	0
Contact material type	turned

Insulation characteristics

Overvoltage category	III
Degree of pollution	3

Dimensions

Dimensional drawing	
Width	33.9 mm
Height	46.3 mm
Length	84 mm

Drill hole distance, horizontal	77.4 mm

Mechanical characteristics

Contact diameter	6 mm

Connection data

Connection technology

Connection technology	Screw connection (without wire protection)
Connection in acc. with standard	IEC / EN

Conductor connection

Conductor cross-section	6 mm² ... 16 mm² (without ferrule)
	2.5 mm² ... 16 mm² (with ferrule)
Connection cross section AWG	10 ... 6
Tightening torque	0.8 Nm ... 1.2 Nm (PE connection)
	0.5 Nm ... 0.8 Nm (Mounting screws for mounting in the HEAVYCON housing)
	1.8 Nm
Stripping length of the individual wire	15 mm

Electrical properties

Rated voltage (III/3)	1000 V
Rated surge voltage	8 kV
	8 kV
Rated current	80 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
Material of contact surface, power contact	Ag

Environmental and real-life conditions

Ambient conditions

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

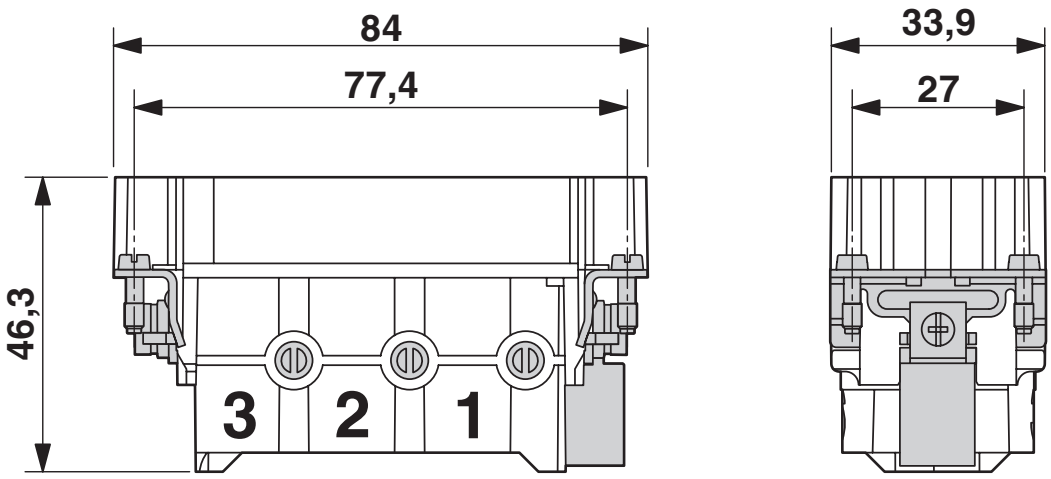
Standards and regulations

Constructional and testing regulations	DIN EN 61984
	DIN VDE 0110/02.79

	DIN VDE 0110-1/04.97
	IEC 60664-1, DIN IEC 60512
Tests	DIN EN 61984
	DIN VDE 0110/02.79
	DIN VDE 0110-1/04.97
	IEC 60664-1, DIN IEC 60512
Standards/regulations	PA: Fire protection in rail vehicles - requirement sets R22, R23, and R24 acc. to DIN EN 45545-2 (Risk level HL1 - HL3)

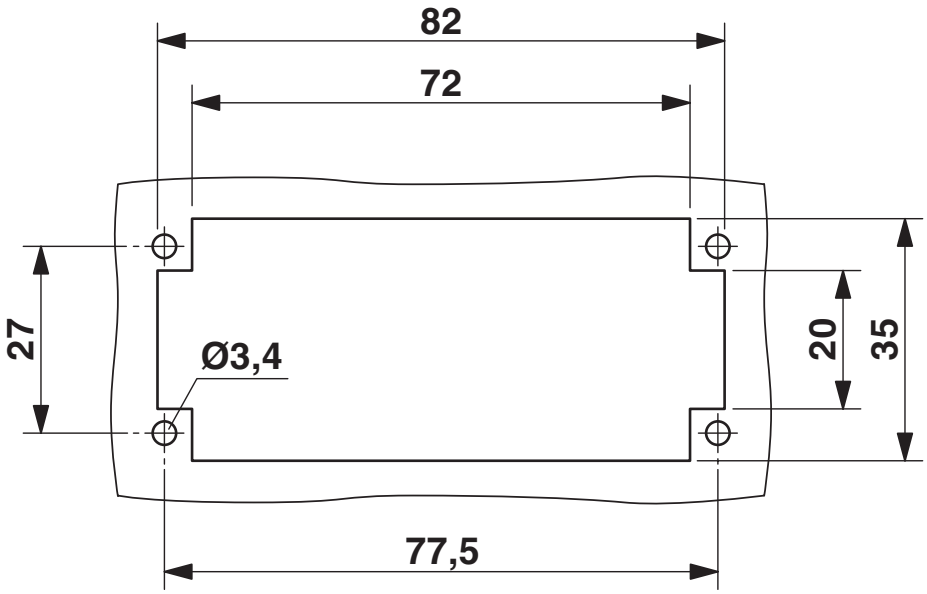
Drawings

Dimensional drawing



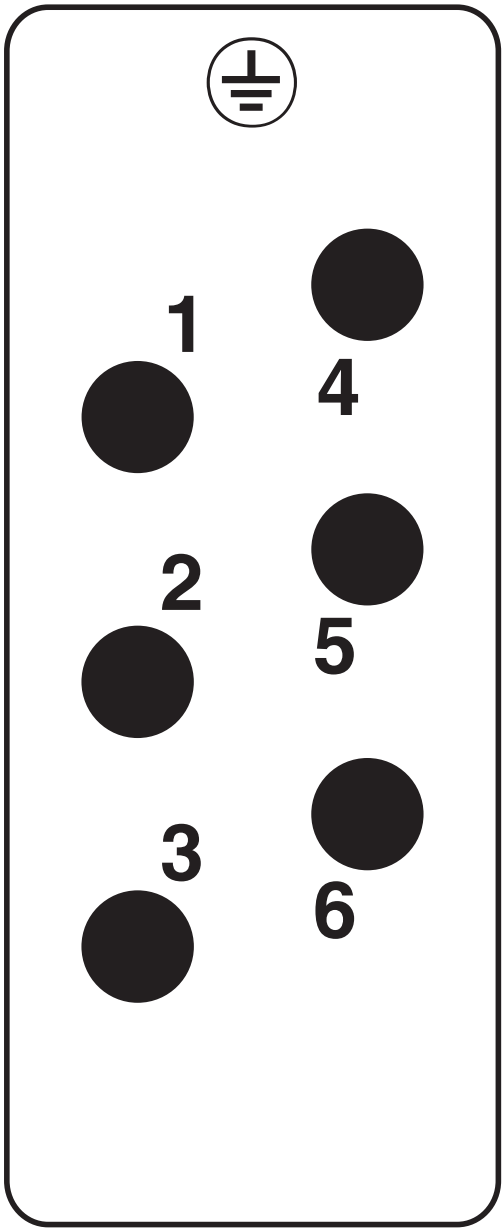
Dimensional drawing

Dimensional drawing



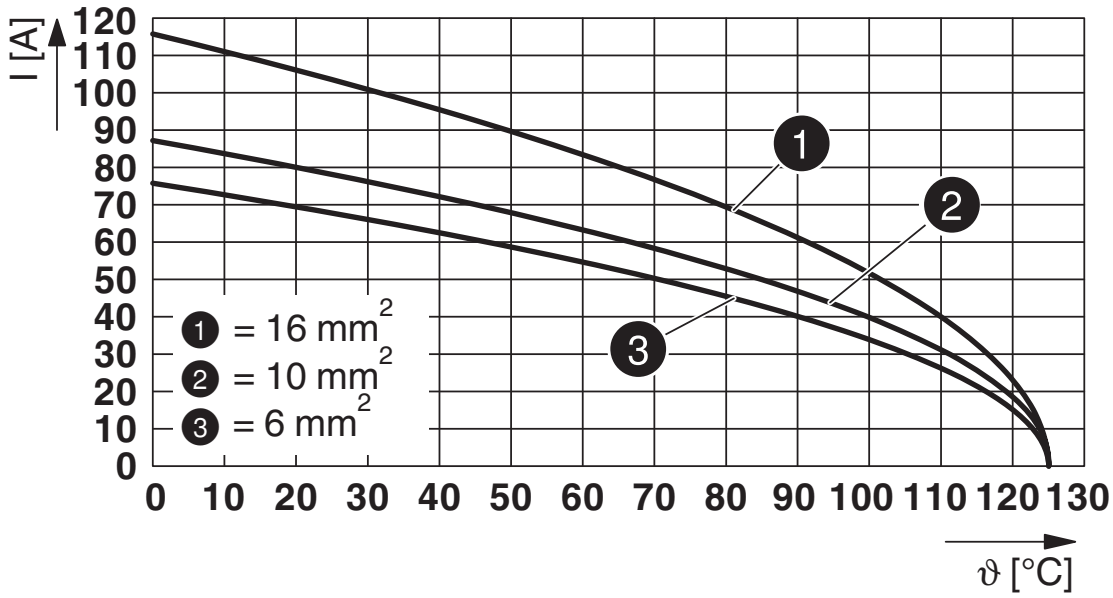
Mounting cutout when used without housing

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/1580538

DNV
Approval ID: TAE000037S

CSA
Approval ID: 013631_0_000

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
keine				
	600 V	60 A	10 - 6	-

UL Recognized
Approval ID: E118976

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

UL Recognized
Approval ID: E468743

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
keine				
	600 V	80 A	-	-

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%

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