

## Contact insert - HC-K 6/0-ESTS - 1580538

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Pin contact insert with screw connection, number of positions 6 + PE, for HEAVYCON housing designs B16 and B32, incl. 1 x PE connection for 16 mm<sup>2</sup>



COMPLETE™

### Key Commercial Data

Packing unit	1 pc
GTIN	
GTIN	4046356463348
Weight per Piece (excluding packing)	152.000 g
Custom tariff number	85366990
Country of origin	Germany

### Technical data

#### General

Note	For HEAVYCON ADVANCE and HEAVYCON housing type B16/B32; screw head shape of connection screws: Allen screws, wrench size 3 mm.
	Connectors may be operated only when there is no load/voltage.
Connection method	Screw connection (Without wire protection)
Tightening torque	1.8 Nm
Torque	0.8 Nm ... 1.2 Nm (PE connection)
	0.5 Nm ... 0.8 Nm (Mounting screws for mounting in the HEAVYCON housing)
Degree of pollution	3
Overvoltage category	III
Number of positions	6+PE
No. of power contacts	6

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## Technical data

### General

No. of control contacts	0
Insertion/withdrawal cycles	≥ 500
Size	B16
	B32
Contact numbering	1 - 6
Conductor cross section	6 mm <sup>2</sup> ... 16 mm <sup>2</sup> (without ferrule)
	2.5 mm <sup>2</sup> ... 16 mm <sup>2</sup> (with ferrule)
Connection cross section AWG	10 ... 6
Stripping length of the individual wire	15 mm
Assembly instructions	To ensure correct use, installation in housing with IP54 protection or better is required
Connection	For housing type B16.

### Ambient conditions

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

Contact material	Copper alloy
Contact surface material	Ag
Material of contact surface, power contact	Ag
Contact carrier material	PA
Standards/regulations	PA: Fire protection in rail vehicles - requirement sets R22 and R23 acc. to DIN EN 45545-2 (Risk level HL1 - HL2)
	PA: Fire protection in rail vehicles - requirement set R24 acc. to DIN EN 45545-2 (Risk level HL1 - HL3)

### Electrical characteristics

Rated voltage (III/3)	1000 V
Rated surge voltage	8 kV
	8 kV
Rated current	80 A

### 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
Flammability rating according to UL 94	V0

### Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
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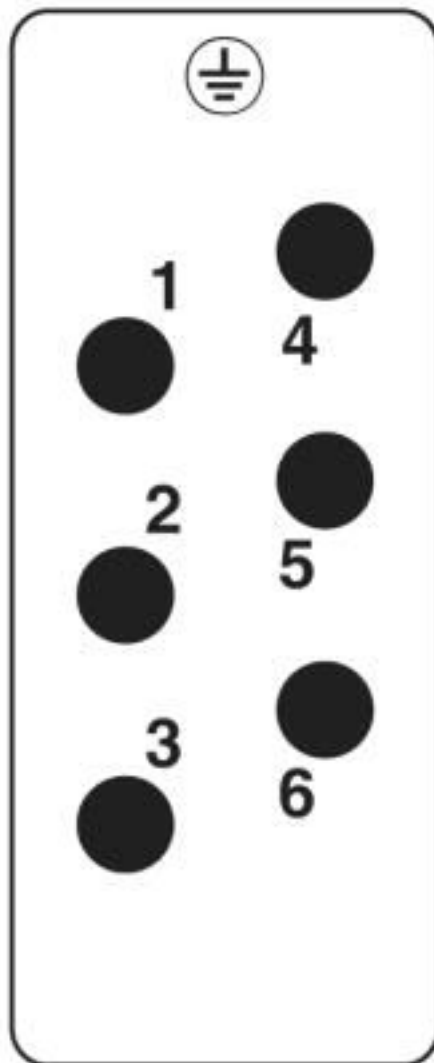
## Technical data

### Environmental Product Compliance

China RoHS	Environmentally Friendly Use Period = 50 years
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

## Drawings

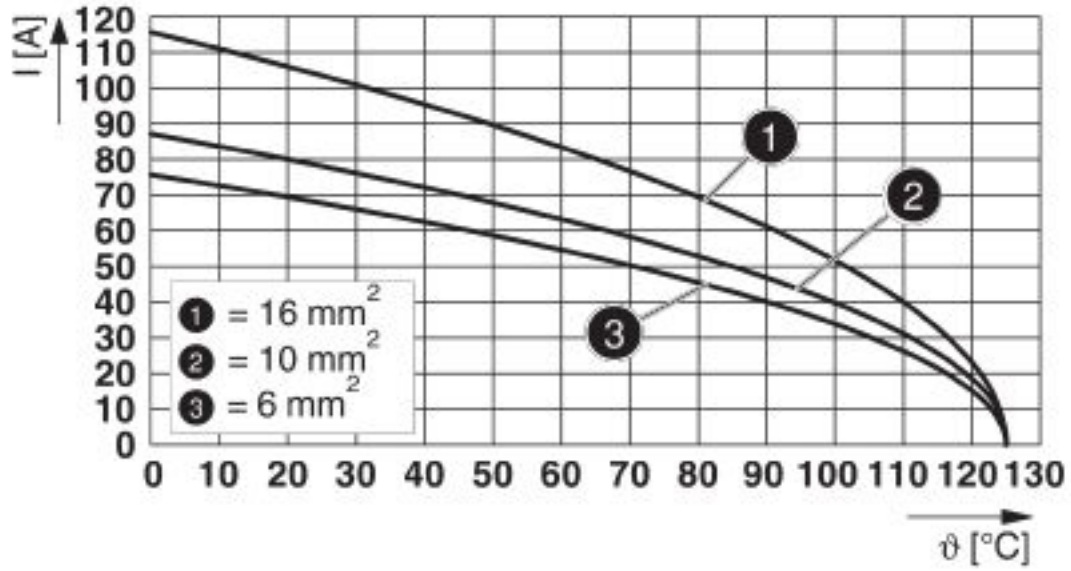
Schematic diagram



Connector pin assignment, connection side

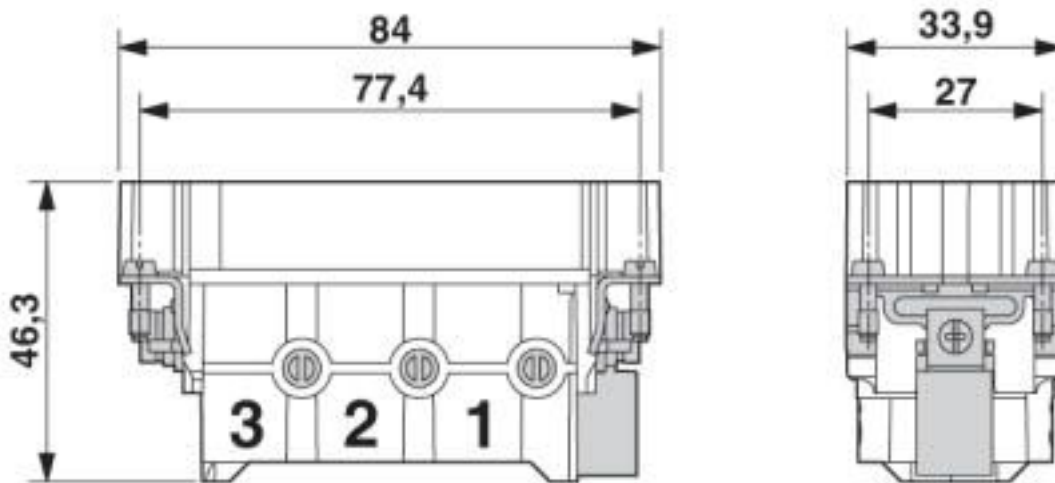
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Diagram



Derating diagram

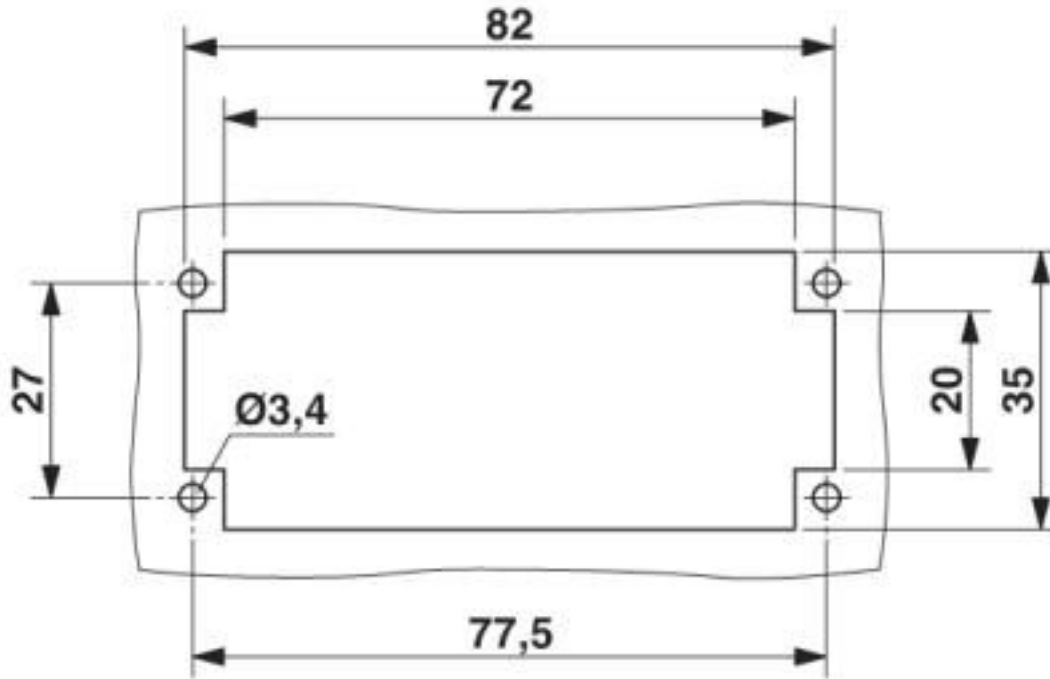
Dimensional drawing



Dimensional drawing

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Dimensional drawing



Mounting cutout when used without housing

### Classifications

eCl@ss

eCl@ss 10.0.1	27440205
eCl@ss 4.0	27140800
eCl@ss 4.1	27140800
eCl@ss 5.0	27143400
eCl@ss 5.1	27261200
eCl@ss 6.0	27261200
eCl@ss 7.0	27440205
eCl@ss 8.0	27440205
eCl@ss 9.0	27440205

ETIM

ETIM 3.0	EC000438
ETIM 4.0	EC000438
ETIM 5.0	EC000438
ETIM 6.0	EC000438

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## Classifications

### ETIM

ETIM 7.0	EC000438
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### UNSPSC

UNSPSC 6.01	30211923
UNSPSC 7.0901	39121522
UNSPSC 11	39121522
UNSPSC 12.01	39121522
UNSPSC 13.2	39121522
UNSPSC 18.0	39121522
UNSPSC 19.0	39121522
UNSPSC 20.0	39121522
UNSPSC 21.0	39121522

## Approvals


### Approvals


#### Approvals

CSA / UL Recognized / EAC / DNV GL / EAC

#### Ex Approvals

### Approval details

CSA		<a href="http://www.csagroup.org/services-industries/product-listing/">http://www.csagroup.org/services-industries/product-listing/</a>	013631_0_000
Nominal voltage UN		600 V	
Nominal current IN		60 A	
mm <sup>2</sup> /AWG/kcmil		10-6	

UL Recognized		<a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a>	FILE E 118976
Nominal voltage UN		600 V	

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### Approvals

Nominal current I <sub>N</sub>	80 A
mm <sup>2</sup> /AWG/kcmil	6

EAC		RU C- DE.AI30.B.01102
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DNV GL		<a href="https://approvalfinder.dnvgl.com/">https://approvalfinder.dnvgl.com/</a>	TAE000037S
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EAC		RU C- DE.BL08.B.00511
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### Accessories

#### Accessories

#### Coding element

Coding element - HC-CST - 1676857



Coding peg for coding up to 16 connectors

Coding element - HC-CBU - 1676860



Coding socket for coding up to 16 connectors

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### Accessories

Coding bolt - HC-CB - 1772722



Coding pin, prevents mismatching of up to six connectors with an identical number of positions

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Coding profile - CP-HC - 1686478



Coding profile, 4 coding profiles per strip, for insertion in coding keyways

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### Additional products

Contact insert - HC-K 6/0-EBUS - 1580537



Socket contact insert with screw connection, number of positions 6 + PE, for HEAVYCON housing designs B16 and B32, incl. 1 x PE connection for 16 mm<sup>2</sup>

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