

Contact insert - HC-B 16-ESTQ-2,5 - 1605637

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HEAVYCON male insert, B16 series, 16-pos., QUICKON connection

RoHS

COMPLIANT

Key Commercial Data

Packing unit	1 pc
Minimum order quantity	10 pc
GTIN	 4 017918 940720
GTIN	4017918940720
Weight per Piece (excluding packing)	90.460 g
Custom tariff number	85366990
Country of origin	Poland

Technical data

General

Note	For HEAVYCON ADVANCE and HEAVYCON housing of B16 type. Coding using the CP-HC (1686478) coding profile. HC-B6.../ HC-B10... for two coding profiles. HC-B16.../ HC-B24... for 4 coding profiles. Connectors may be operated only when there is no load/voltage.
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Connection method	QUICKON connection
Degree of pollution	3
Overvoltage category	III
Number of positions	16+PE
Insertion/withdrawal cycles	≥ 500
Size	B16

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Technical data

General

Contact numbering	1 - 16
Conductor cross section	0.34 mm² ... 2.5 mm² (Litz wire structure VDE 0295, Class 1 - 5/litz wire diameter >= 0.2 mm)
Connection cross section AWG	22 ... 14
Wire diameter including insulation	1 mm ... 3.5 mm
Frequency of connections between conductors of the same cross section	10
Assembly instructions	To ensure correct use, installation in housing with IP54 protection or better is required
Connection	For housings of type B16/B32. Connectors may only be actuated when there is no load/voltage.

Ambient conditions

Ambient temperature (operation)	-40 °C ... 125 °C (including heating up of contacts)
Ambient temperature (assembly)	-25 °C ... 50 °C

Material data

Contact material	Copper alloy
Contact surface material	Ag
Contact carrier material	PA
Material wire insulation	PVC / PE
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)	500 V
Rated surge voltage	6 kV
	6 kV
Rated current	16 A
	16 A

Standards and Regulations

Connection in acc. with standard	CSA
Flammability rating according to UL 94	V0

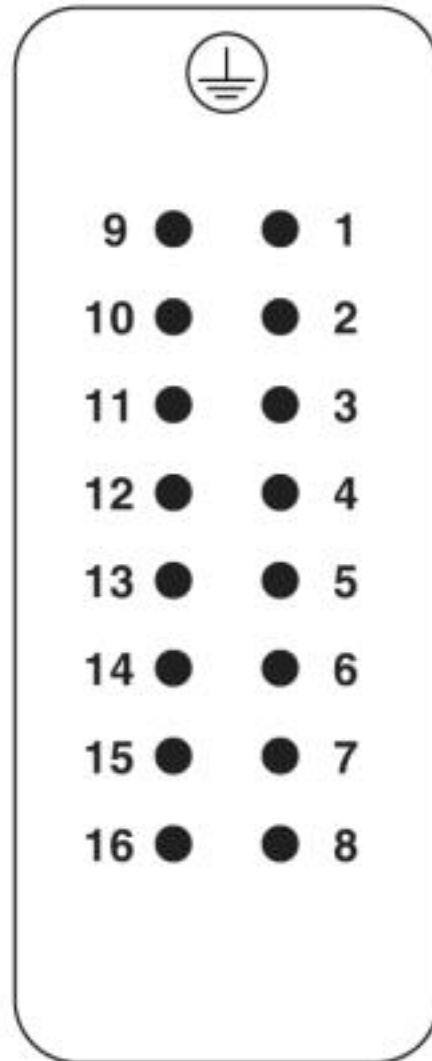
Environmental Product Compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

Drawings

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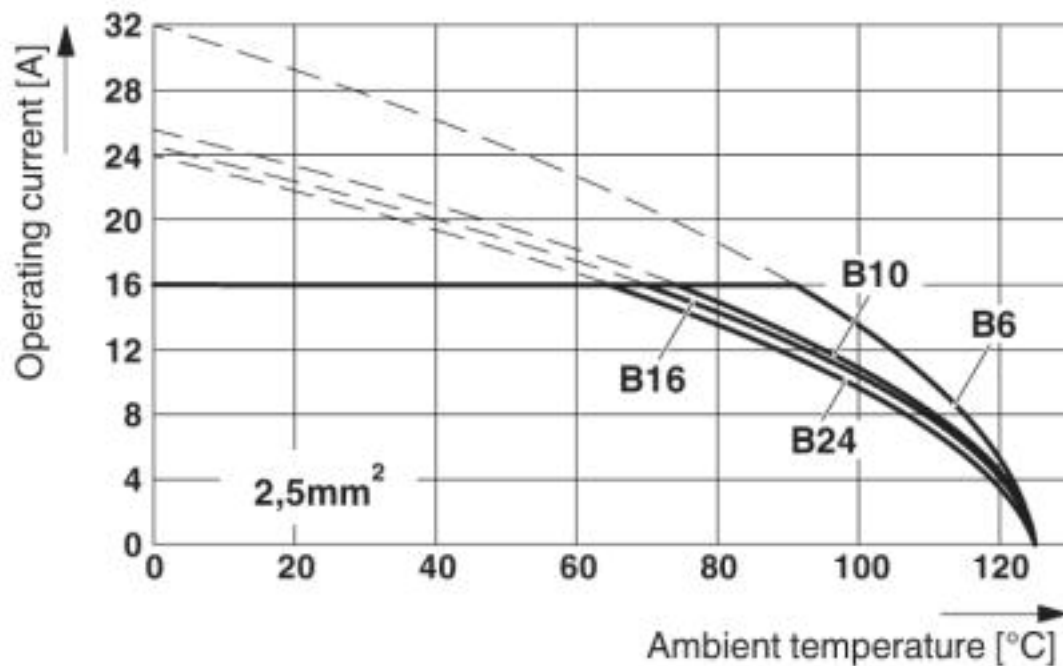
Schematic diagram



Connector pin assignment, connection side

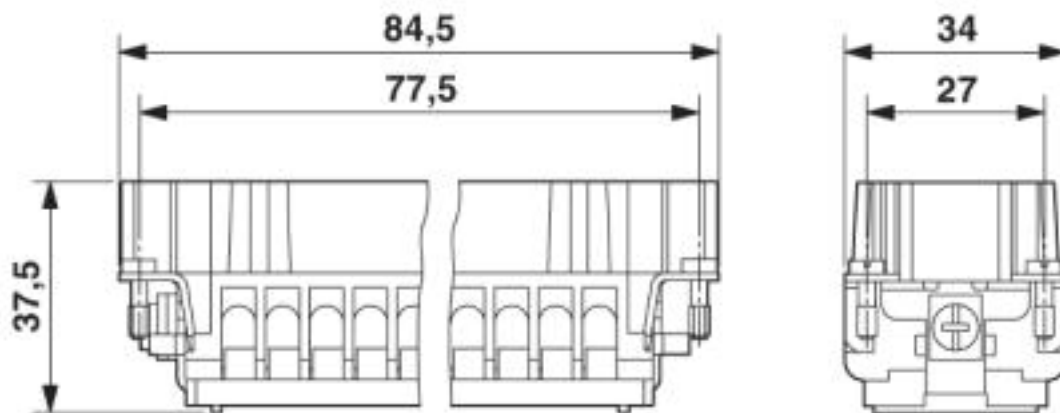
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Diagram



The figure shows the derating diagram of various series B contact inserts (B6 to B24), conductor cross section 2.5 mm²

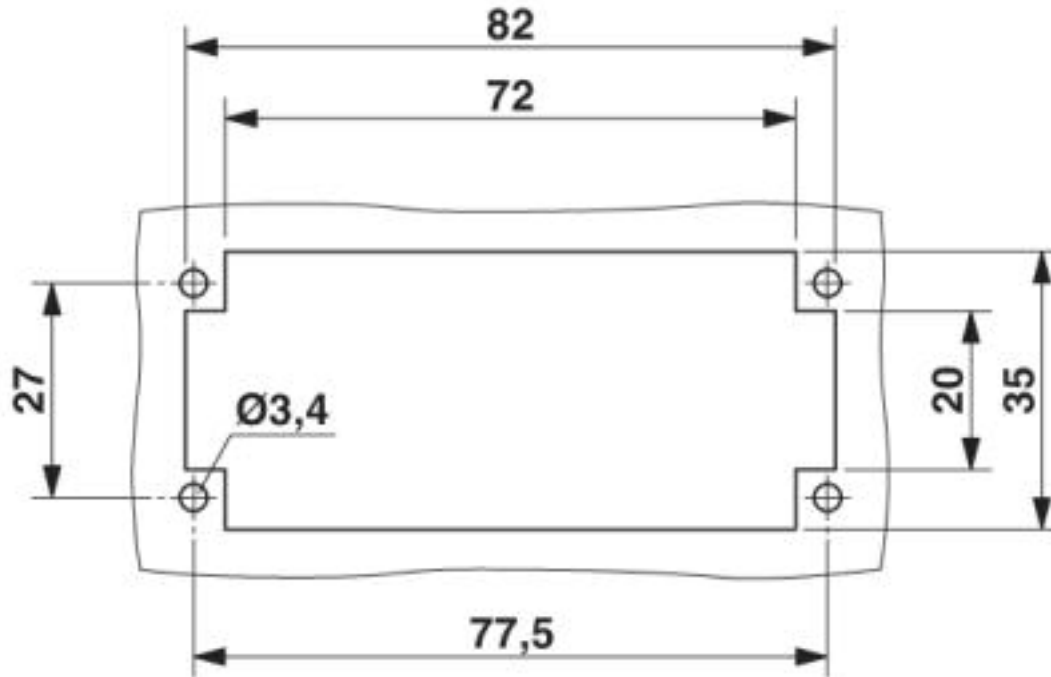
Dimensional drawing



Male insert

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Dimensional drawing



Mounting cutout when used without housing

Classifications

eCl@ss

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 2.0	EC000437
ETIM 3.0	EC000437
ETIM 4.0	EC000437
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

Approvals

Approvals

Approvals

CSA / UL Recognized / cUL Recognized / EAC / DNV GL / cULus Recognized

Ex Approvals

Approval details

CSA		http://www.csagroup.org/services-industries/product-listing/	013631_6233_01
Nominal voltage UN		600 V	
Nominal current IN		10 A	
mm²/AWG/kcmil		16	

UL Recognized		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 118976
Nominal voltage UN		600 V	
Nominal current IN		10 A	
mm²/AWG/kcmil		14	

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Approvals

cUL Recognized		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 118976
Nominal voltage UN	600 V		
Nominal current IN	10 A		
mm²/AWG/kcmil	14		

EAC		RU C- DE.AI30.B.01102
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DNV GL		https://approvalfinder.dnvgl.com/	TAE000037S
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cULus Recognized	
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Accessories

Accessories

Adapter plate

Adapter plate - HC-B 24-ADP-B 16-GY - 1660449



HEAVYCON adapter plate, type B24 on B16, for panel cutouts of type B24, gray

Coding element

Coding profile - CP-HC - 1686478



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

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Accessories

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

Coding bolt - HC-CB - 1772722



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

DIN rail mounting frame

DIN rail mounting frame - HC-SMR-B16 - 1687972



HEAVYCON DIN rail mounting frame, for contact inserts of type B16

Docking frame

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Accessories

Docking frames - HC-B 16-ANDOCK - 1586138



Docking frame for racks, for contact inserts of B16 type, with four M5 flat headed screws, rack balance x/y axis +/- 1.5 mm

Mounting material

Screw - HC-B-PES - 1604997



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

PE multiplier - HC-B-3PE - 1644326



PE multiplier, for three PE connections, for HC-B (besides HC-B..E..ZZ) / HC-BB / HC-DD / HC-D40 / HC-D64 contact inserts

Strain relief clamp - HC-B-ZG - 1685327



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

Strain relief clamp - HC-B-ZS - 1685330



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

