

## Contact insert - HC-B 16-ESTQ-2,5-32 - 1605653

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HEAVYCON male insert, B16 series, 16-pos., QUICKON connection, numbering 17-32



### Key Commercial Data

Packing unit	1 pc
Minimum order quantity	10 pc
GTIN	 4 017918 940744
GTIN	4017918940744
Weight per Piece (excluding packing)	90.910 g
Custom tariff number	85366990
Country of origin	Poland

### Technical data

#### General

Note	For HEAVYCON-ADVANCE housing of B16 type and HEAVYCON housing of B16/B32 type. Encoding using coding profile CP-HC (1686478). HC-B6.../ HC-B10... for two coding profiles. HC-B16.../ HC-B24... for four coding profiles. Connectors may only be actuated when there is no load/voltage.
	Connectors may be operated only when there is no load/voltage.
Connection method	QUICKON connection
Degree of pollution	3
Overvoltage category	III
Number of positions	16+PE
Insertion/withdrawal cycles	≥ 500

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## Technical data

### General

Size	B16
Contact numbering	17 - 32
Conductor cross section	0.34 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> (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

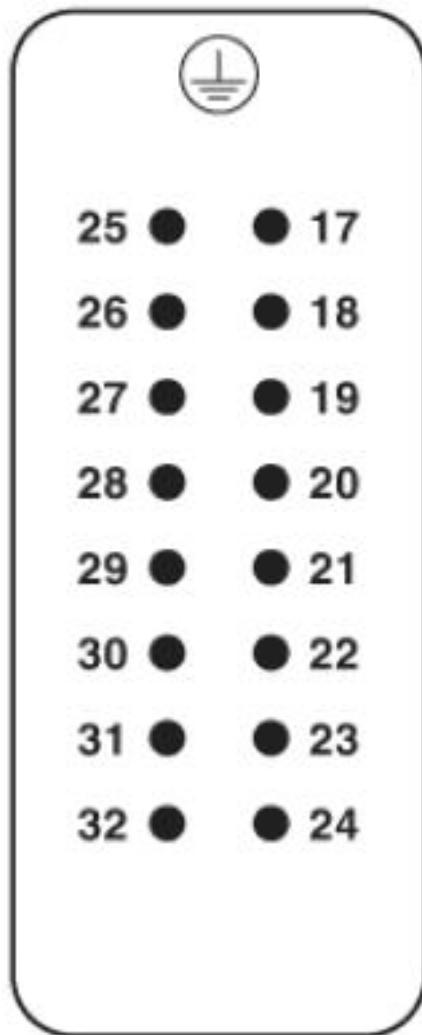
### Environmental Product Compliance

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

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### Drawings

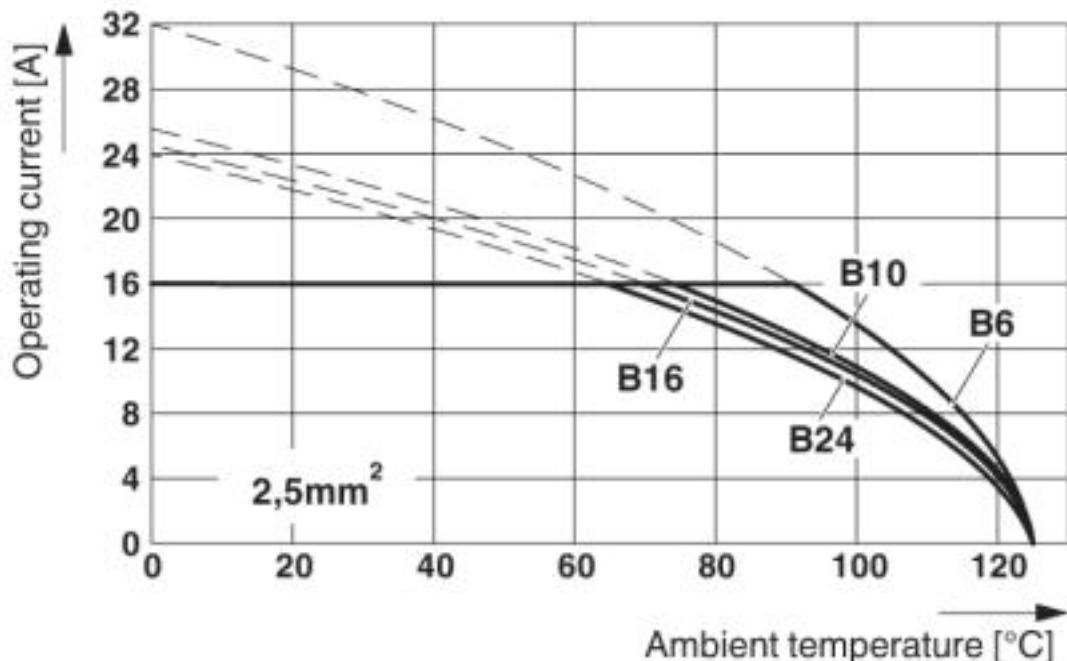
Schematic diagram



Connector pin assignment, connection side

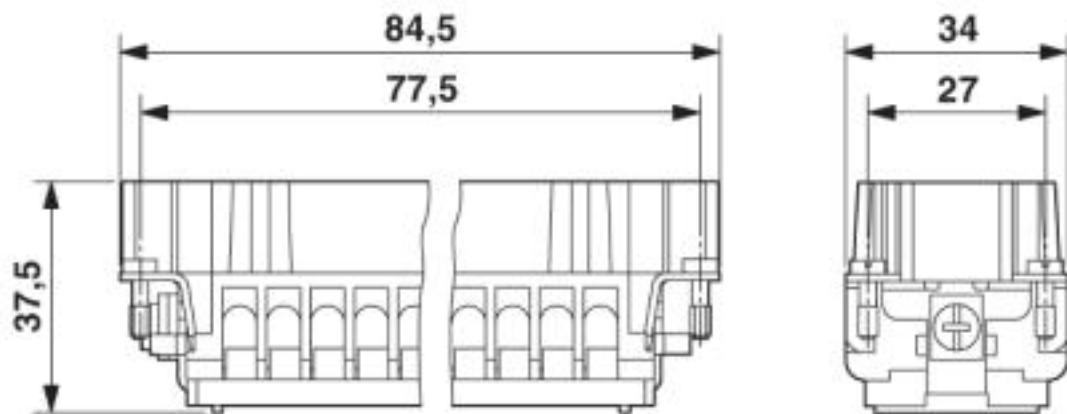
## Contact insert - HC-B 16-ESTQ-2,5-32 - 1605653

Diagram



The figure shows the derating diagram of various series B contact inserts (B6 to B24), conductor cross section 2.5 mm<sup>2</sup>

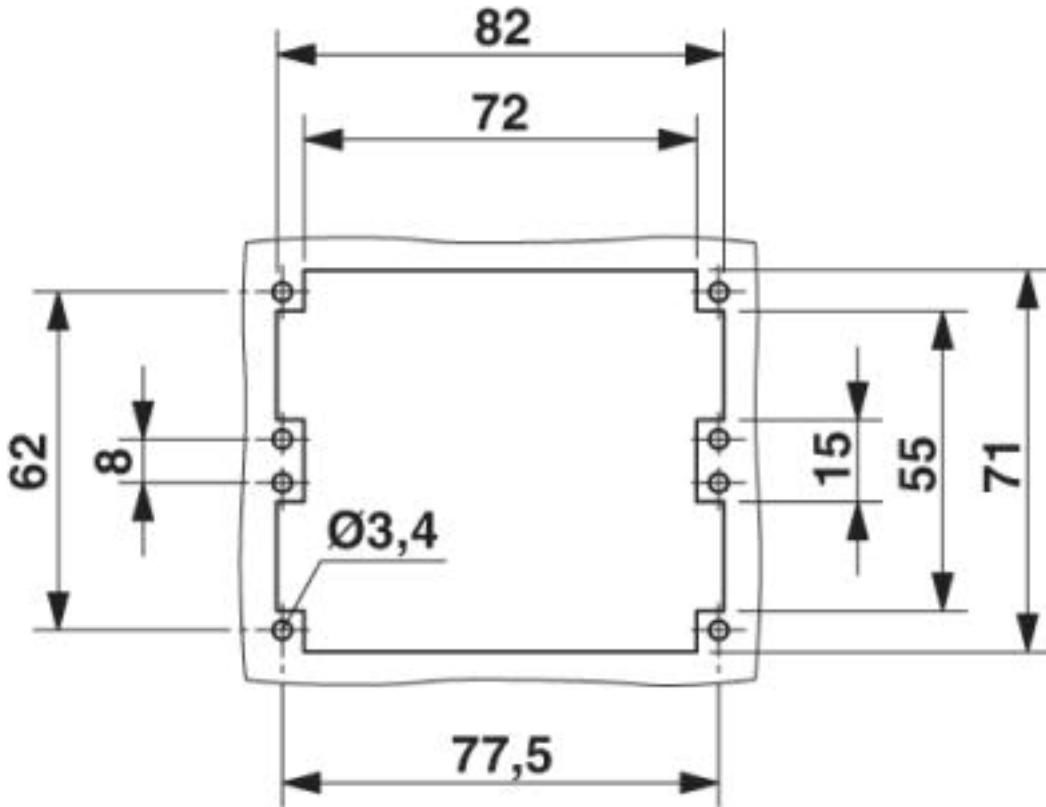
Dimensional drawing



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

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### Classifications

#### ETIM

ETIM 4.0	EC000438
ETIM 5.0	EC000438
ETIM 6.0	EC000438
ETIM 7.0	EC000438

#### UNSPSC

UNSPSC 6.01	30211923
UNSPSC 7.0901	39121522
UNSPSC 11	39121522
UNSPSC 12.01	39121522
UNSPSC 13.2	39121522

### Approvals

#### Approvals

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#### Approvals

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

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#### Ex Approvals

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#### Approval details

CSA		<a href="http://www.csagroup.org/services-industries/product-listing/">http://www.csagroup.org/services-industries/product-listing/</a>	013631_6233_01
Nominal voltage UN		600 V	
Nominal current IN		10 A	
mm <sup>2</sup> /AWG/kcmil		16	

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	
Nominal current IN		10 A	

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### Approvals

mm <sup>2</sup> /AWG/kcmil	14
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cUL 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	
Nominal current IN		10 A	
mm <sup>2</sup> /AWG/kcmil		14	

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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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

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### Accessories

Coding profile - CP-HC - 1686478



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

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

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### Accessories

#### Docking frame

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

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#### Mounting material

Screw - HC-B-PES - 1604997



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

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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

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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

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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

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### Accessories

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Plug mounting plate

DIN rail mounting frame - HC-SMP 125-B16-AMQ - 1660973



HEAVYCON DIN rail mounting frame with panel mounting base with double locking latch, for contact inserts of type B16

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