

# Contact insert - HC-B 6-I-UT-M - 1648115

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HEAVYCON male insert, B6 series, 6-pos., screw connection

## Why buy this product

- For fast coding with plastic profile
- For test pin 2 mm

## Key Commercial Data

Packing unit	1 STK
GTIN	
GTIN	4046356092234
Weight per Piece (excluding packing)	47.900 g
Custom tariff number	85366990
Country of origin	China

## Technical data

### General

Note	For HEAVYCON ADVANCE and HEAVYCON housing of B6 type. Plug-in connections may only be operated only when there is no load/voltage.
Connection method	Screw connection
Tightening torque	0.5 Nm ... 0.8 Nm
Degree of pollution	3
Overvoltage category	III
Constructional and testing regulations	DIN EN 61984
	DIN EN 60664
	IEC 60352
Number of positions	6+PE
Insertion/withdrawal cycles	≥ 500

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## Technical data

### General

Size	B6
Connection in acc. with standard	IEC / EN
Conductor cross section	0.5 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> (Applies to stranded conductors with ferrules)
Connection cross section AWG	20 ... 14
Stripping length of the individual wire	8 mm
Assembly instructions	Coding also using the CP-HC (1686478) coding profiles. HC-B6../ HC-B10..for two coding profiles. HC-B16../ HC-B24..for four coding profiles.
Connection	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)
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### Material data

Flammability rating according to UL 94	V0
Contact material	Copper alloy
Contact surface material	Ag
Contact carrier material	PC

### Electrical characteristics

Rated voltage (III/3)	500 V
Rated surge voltage	6 kV
Rated current	24 A

### Standards and Regulations

Connection in acc. with standard	IEC / EN
	CSA
Constructional and testing regulations	DIN EN 61984
	DIN EN 60664
	IEC 60352
Flammability rating according to UL 94	V0

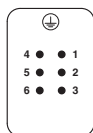
### Environmental Product Compliance

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

## Drawings

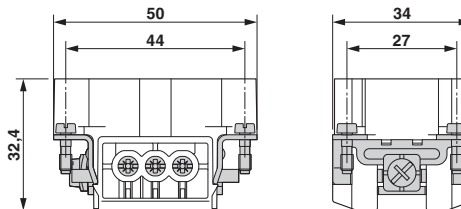
# Contact insert - HC-B 6-I-UT-M - 1648115

Schematic diagram



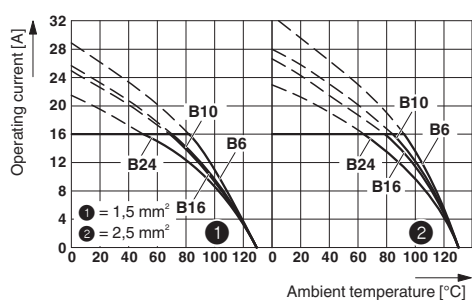
Connector pin assignment, connection side

Dimensional drawing



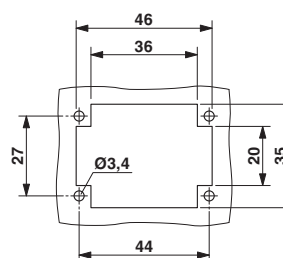
Male insert

Diagram



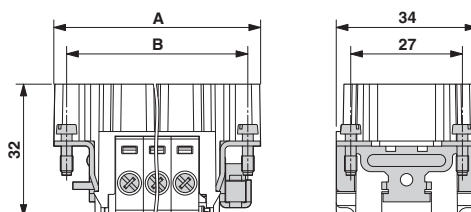
Derating diagram

Dimensional drawing



Mounting cutout when used without housing

Dimensional drawing



## Classifications

### eCl@ss

eCl@ss 4.0	272607xx
eCl@ss 4.1	27260701
eCl@ss 5.0	27143424
eCl@ss 5.1	27143424
eCl@ss 6.0	27143424
eCl@ss 7.0	27440209
eCl@ss 8.0	27440205
eCl@ss 9.0	27440205

### ETIM

ETIM 3.0	EC000438
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## Classifications

### ETIM

ETIM 4.0	EC000438
ETIM 5.0	EC000438
ETIM 6.0	EC000438

### UNSPSC

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

## Approvals

### Approvals


#### Approvals


GL / CSA / UL Recognized / EAC

#### Ex Approvals

### Approval details

GL		<a href="http://www.gl-group.com/newbuilding/approvals/index.html">http://www.gl-group.com/newbuilding/approvals/index.html</a>	6196614
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CSA		<a href="http://www.csagroup.org/services/testing-and-certification/certified-product-listing/">http://www.csagroup.org/services/testing-and-certification/certified-product-listing/</a>	013631_6233_01
mm <sup>2</sup> /AWG/kcmil	22-14		
Nominal current I <sub>N</sub>	13 A		
Nominal voltage U <sub>N</sub>	600 V		

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
mm <sup>2</sup> /AWG/kcmil	14		
Nominal current I <sub>N</sub>	16 A		

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## Approvals

Nominal voltage UN	600 V
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EAC		EAC-Zulassung
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## Accessories

### Accessories

#### Adapter plate

Adapter plate - HC-B 24-ADP-B 6-GY - 1660407



HEAVYCON adapter plate, type B24 on B6, 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

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

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### Accessories

Coding element - HC-CST - 1676857



Coding peg for coding up to 16 connectors

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### Docking frame

Docking frames - HC-B 6-ANDOCK - 1586112



Docking frames for racks, for type B6 contact inserts, with 4 M5 flat headed screws, slide-in offset for x/y axis of  $\pm 1.5$  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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### Accessories

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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### Plug assembly frame

Connector assembly frame - HC-SMR-2B 6 - 1687998



HEAVYCON connector assembly frame, for two contact inserts of type B6

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Connector assembly frame - HC-SMR-B 6 - 1687956



HEAVYCON plug assembly frame, for type B6 contact inserts

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### Plug mounting plate

Connector assembly frame - HC-SMP 125-B 6-AML - 1660957



HEAVYCON connector assembly frame with panel mounting base with single locking latch, for contact inserts of type B6

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