

Contact insert - HC-B 24-EBUQ-2,5 - 1605585

Please be informed that the data shown in this PDF Document is generated from our Online Catalog. Please find the complete data in the user's documentation. Our General Terms of Use for Downloads are valid (<http://phoenixcontact.com/download>)



HEAVYCON female insert, B24 series, 24-pos., QUICKON-connection

Product Description

Contact insert

With QUICKON connection technology, the wires are connected with just a turn of the screwdriver. The wires do not have to be stripped first. This reduces connection time by at least 60%.

Key Commercial Data

Packing unit	10 STK
GTIN	
GTIN	4017918940676

Technical data

General

Note	For HEAVYCON ADVANCE and HEAVYCON housing of B24 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.
Connection method	QUICKON connection
Degree of pollution	3
Overvoltage category	III
Number of positions	24+PE
Insertion/withdrawal cycles	≥ 500
Size	B24
Contact numbering	1 - 24
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

Contact insert - HC-B 24-EBUQ-2,5 - 1605585

Technical data

General

Frequency of connections between conductors of the same cross section	10
Assembly instructions	If the conductor is to be reconnected, it must be cut off above the last contact point.
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

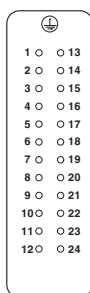
Environmental Product Compliance

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

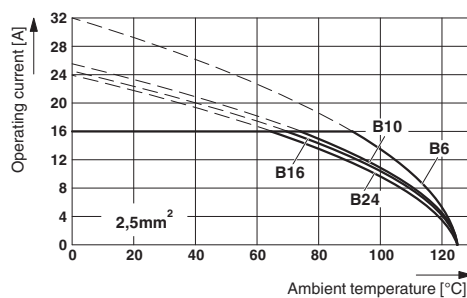
Drawings

Contact insert - HC-B 24-EBUQ-2,5 - 1605585

Schematic diagram



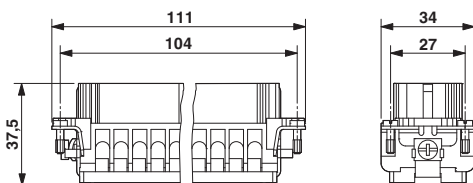
Diagram



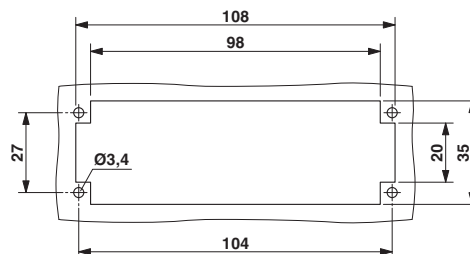
Connector pin assignment, connection side

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

Dimensional drawing



Dimensional drawing



Female insert

Mounting cutout when used without housing

Approvals

Approvals

Approvals

CSA / cUL Recognized / UL Recognized / EAC / 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		
mm ² /AWG/kcmil	16		


Contact insert - HC-B 24-EBUQ-2,5 - 1605585

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	
mm ² /AWG/kcmil		14	

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	
mm ² /AWG/kcmil		14	

EAC		RU C- DE.AI30.B.01102
-----	---	--------------------------

cULus Recognized		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm
------------------	---	---

Phoenix Contact 2018 © - all rights reserved
<http://www.phoenixcontact.com>

PHOENIX CONTACT GmbH & Co. KG
Flachsmarktstr. 8
32825 Blomberg
Germany
Tel. +49 5235 300
Fax +49 5235 3 41200
<http://www.phoenixcontact.com>