

Contact insert - HC-B24-I-PT-F-48 - 1407737

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 socket insert, B24 series, 24 + PE-pos., pos. marking 25-48, push-in connection

Your advantages

- For fast coding with plastic profile
- Conductor connection without tools
- Significant time savings during conductor connection
- Test connection for 2 mm test plug



Key Commercial Data

Packing unit	1 pc
GTIN	
GTIN	4046356777735

Technical data

General

Note	only use flexible conductors with ferrules
	Connectors may be operated only when there is no load/voltage.
Connection method	Push-in connection
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	24+PE
Insertion/withdrawal cycles	≥ 500
Size	B24
	B48
Contact numbering	25 - 48

Contact insert - HC-B24-I-PT-F-48 - 1407737

Technical data

General

Conductor cross section	0.14 mm ² ... 2.5 mm ²
Connection cross section AWG	26 ... 14
Stripping length	8 mm ... 10 mm
Assembly instructions	To ensure correct use, installation in housing with IP54 protection or better is required

Ambient conditions

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

Material data

Contact material	Copper alloy
Contact surface material	Ag/Sn (tarnish protection)
Contact carrier material	PC
Standards/regulations	PC: Fire protection in rail vehicles - requirement sets R22 and R23 acc. to DIN EN 45545-2 (Risk level HL1 - HL2)
	PC: 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
Rated current	16 A (power contacts)

Standards and Regulations

Flammability rating according to UL 94	V0
Standards/regulations	acc. to DIN EN 45545-2

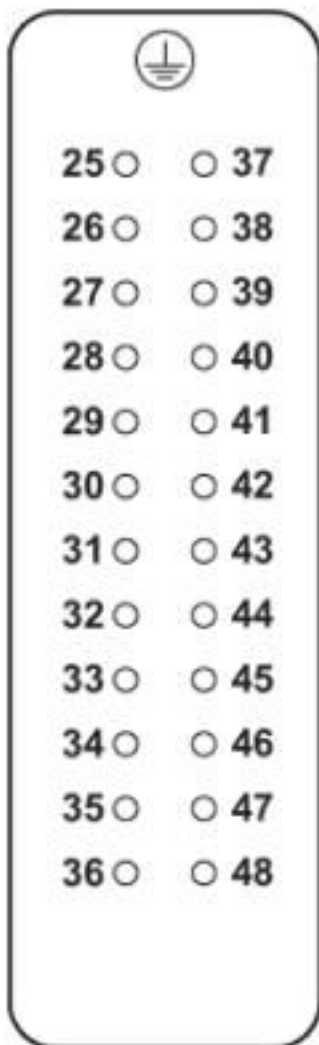
Environmental Product Compliance

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

Drawings

Contact insert - HC-B24-I-PT-F-48 - 1407737

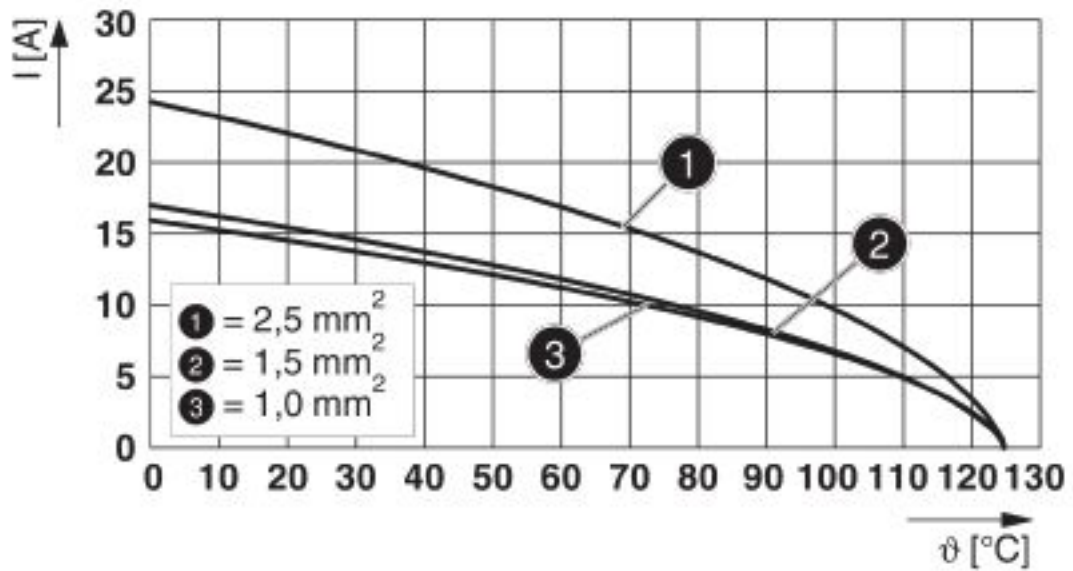
Schematic diagram



Connector pin assignment, connection side

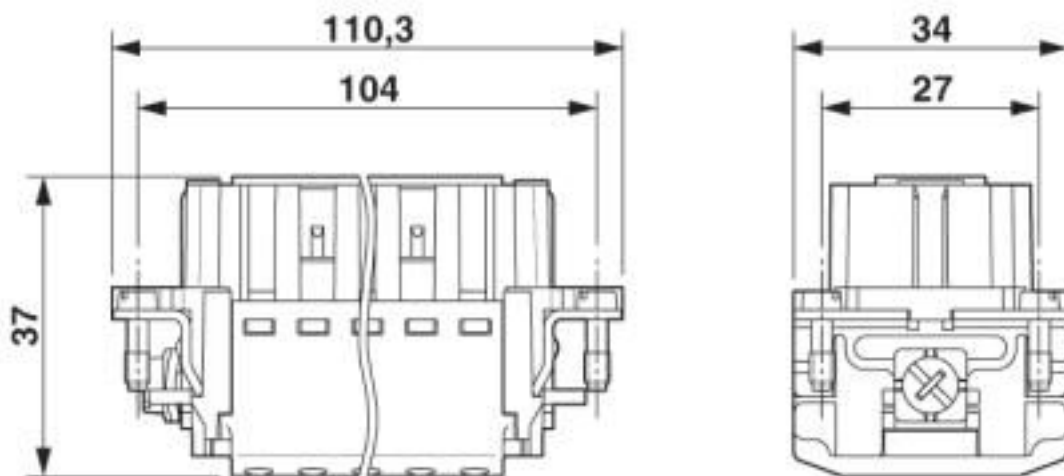
Contact insert - HC-B24-I-PT-F-48 - 1407737

Diagram



Derating diagram

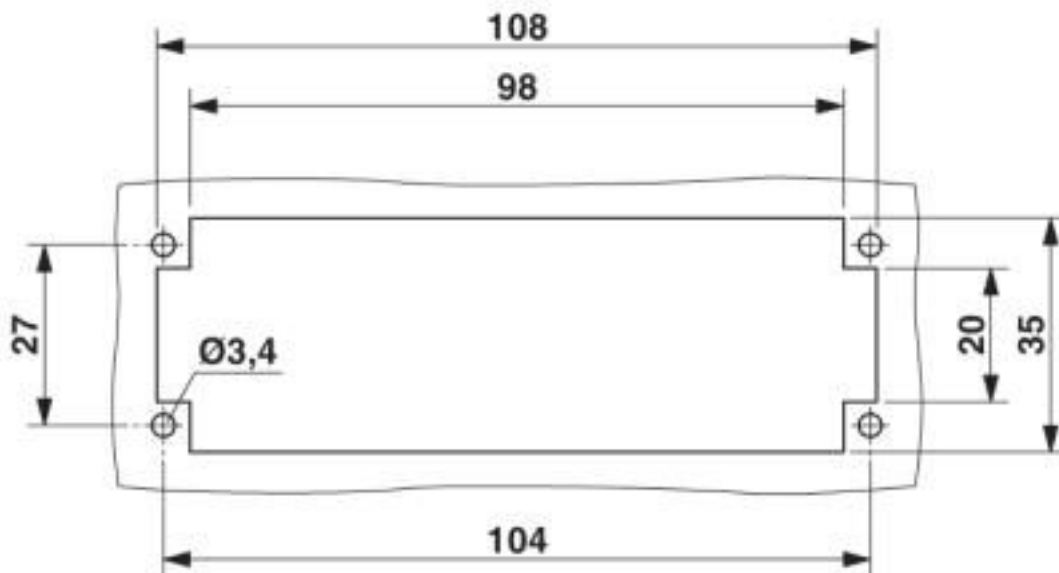
Dimensional drawing



Dimensional drawing

Contact insert - HC-B24-I-PT-F-48 - 1407737

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
ETIM 7.0	EC000438

UNSPSC

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

Contact insert - HC-B24-I-PT-F-48 - 1407737

Classifications

UNSPSC

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		http://www.csagroup.org/services-industries/product-listing/	13631
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		13 A	
mm ² /AWG/kcmil		14	

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

DNV GL		https://approvalfinder.dnvgl.com/	TAE000037S
--------	---	---	------------

Contact insert - HC-B24-I-PT-F-48 - 1407737

Approvals

EAC



RU C-
DE.BL08.B.00511

Accessories

Accessories

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

Coding element - HC-CST - 1676857



Coding peg for coding up to 16 connectors

Crimping tool

Contact insert - HC-B24-I-PT-F-48 - 1407737

Accessories

Crimping pliers - CRIMPFOX 6 - 1212034



Crimping pliers, for ferrules without insulating collar according to DIN 46228 Part 1 and ferrules with insulating collar according to DIN 46228 Part 4, 0.25 mm² ... 6.0 mm², lateral entry, trapezoidal crimp

Docking frame

Docking frames - HC-B 24-ANDOCK - 1586141



Docking frame for racks, for contact inserts of B24 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

Contact insert - HC-B24-I-PT-F-48 - 1407737

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

Additional products

Contact insert - HC-B24-I-PT-M-48 - 1407738



HEAVYCON pin insert, B24 series, 24 + PE-pos., pos. marking 25-48, push-in connection

Phoenix Contact 2020 © - 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>

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [Heavy Duty Power Connectors](#) category:

Click to view products by [Phoenix Contact](#) manufacturer:

Other Similar products are found below :

[647757-1](#) [6643411-1](#) [6646058-2](#) [6646137-1](#) [6646138-1](#) [6646479-1](#) [6646608-1](#) [6646786-1](#) [6646940-1](#) [6651091-1](#) [6651525-1](#) [6651529-1](#)
[6651788-1](#) [696475-1](#) [702-32-01109](#) [703-25-02205](#) [73000005059](#) [73000005642](#) [765-15-0080A](#) [765-16-0080B](#) [765-18-0080D](#) [829992-1](#)
[902-77-02113](#) [PS00/A0620/6300](#) [129-1J](#) [1409400](#) [AN0024023](#) [E6374G1](#) [e6389g2](#) [157-43GW8](#) [MS3117-14AC](#) [1643543-1](#) [1650540-1](#)
[1651811-2](#) [1766260-1](#) [1766282-1](#) [1766966-1](#) [1791340000](#) [NLDFT-3-BL-L-S120-M40A](#) [NLDFT-N-W-L-C240-M40B](#) [NLS-2-R-C240-](#)
[M40B](#) [NLS-N-W-C240-M40B](#) [NPS-3-BL-T6](#) [1986615-1](#) [2-1589900-8](#) [2199314-1](#) [KA8102](#) [9300480317](#) [SBS50BRN#6](#) [29131](#)