

# HC-B24-I-TPT-F - Contact insert



1423022

<https://www.phoenixcontact.com/us/products/1423022>

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 documentation. Our general terms of use for downloads are valid.



Contact insert, number of positions: 24+PE, size: B24, number of connections per position: 2, Socket, Push-in connection, 500 V, 16 A, 0.25 mm<sup>2</sup> ... 1.5 mm<sup>2</sup>, application: Power

## Your advantages

- Easy installation without tools, even when mounted, with push-in connection technology
- Shortest installation time compared to other connection technologies
- Quick and effortless wiring, in particular when space is tight
- Automatic cabling with robots possible
- Safe wiring and operation with color-coded actuators
- Shock and vibration-resistant in accordance with DIN EN 61373
- Cost-effective and fast coding with plastic profiles
- Double conductor connection per pos.

## Commercial data

Item number	1423022
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF61
Product key	AF7ABC
GTIN	4055626322759
Weight per piece (including packing)	112.775 g
Weight per piece (excluding packing)	111.5 g
Customs tariff number	85366990
Country of origin	CN

# HC-B24-I-TPT-F - Contact insert

1423022

<https://www.phoenixcontact.com/us/products/1423022>



## Technical data

### Notes

General	Use only flexible conductors with ferrule (in conjunction with CRIMPFOX 6 only)
General	Connectors may be operated only when there is no load/voltage.

### Mounting

Assembly note	To ensure correct use, installation in housing with IP54 protection or better is required
---------------	---

### Product properties

Product type	Contact insert with a fixed no. of positions
Series	HC-B
Application	Power
Type	B24
	B48
Number of positions	24
Connection profile	24+PE
Contact numbering	1 - 24
Number of connections per position	2

### Insulation characteristics

Overvoltage category	III
Degree of pollution	3

### Dimensions

Dimensional drawing	
Width	34 mm
Height	34.6 mm
Length	111 mm
Drill hole distance, horizontal	104 mm

### Mechanical characteristics

Contact diameter	2.5 mm
------------------	--------

### Connection data

Connection technology	
Connection technology	Push-in connection
Number of connections per position	2

### Conductor connection

# HC-B24-I-TPT-F - Contact insert

1423022

<https://www.phoenixcontact.com/us/products/1423022>



Conductor cross section	0.25 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
Connection cross section AWG	24 ... 16
Tightening torque	0.8 Nm ... 1.2 Nm (PE connection) 0.5 Nm ... 0.8 Nm (Mounting screws for mounting in the HEAVYCON housing)
Stripping length of the individual wire	8 mm ±1 mm

## Electrical properties

Rated voltage (III/3)	500 V
Rated surge voltage	6 kV
Rated current	16 A

## Mechanical properties

### Mechanical data

Insertion/withdrawal cycles	≥ 500
-----------------------------	-------

## Material specifications

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

## Environmental and real-life conditions

### Ambient conditions

Ambient temperature (operation)	-40 °C ... 125 °C
---------------------------------	-------------------

## Standards and regulations

Constructional and testing regulations	DIN EN 61984 DIN EN 60664 IEC 60352
Tests	DIN EN 61984 DIN EN 60664 IEC 60352

### Testing

Standards/regulations	PC: Fire protection in rail vehicles - requirement sets R22, R23, and R24 acc. to DIN EN 45545-2 (Risk level HL1 - HL3)
-----------------------	---

# HC-B24-I-TPT-F - Contact insert

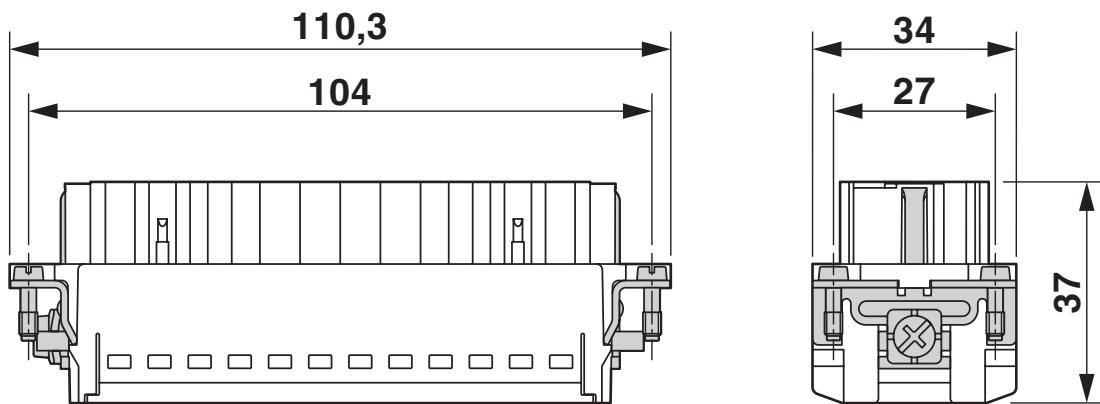
1423022

<https://www.phoenixcontact.com/us/products/1423022>



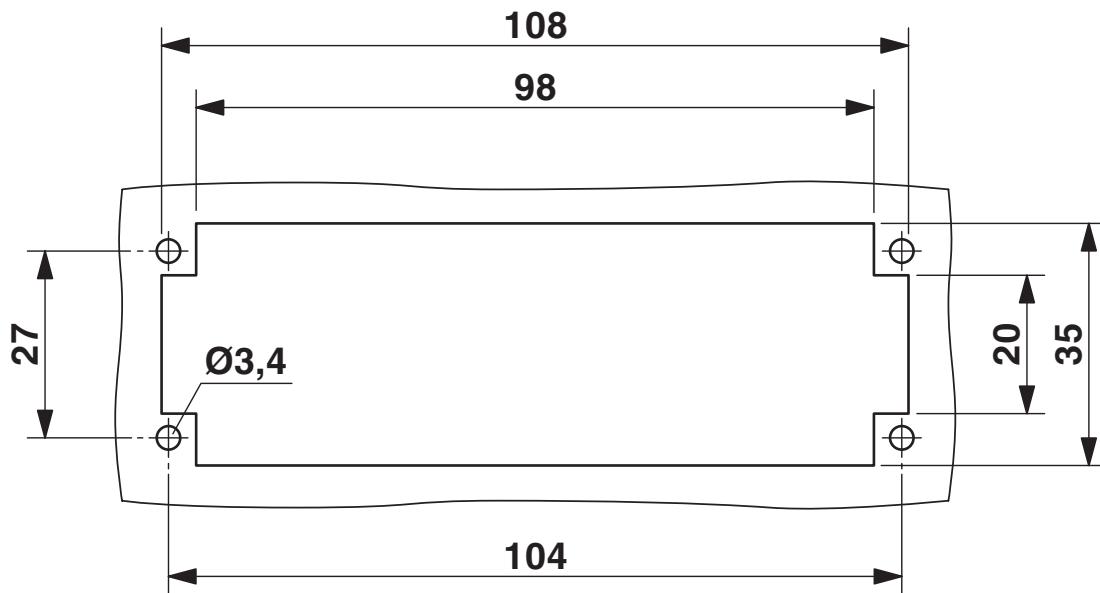
## Drawings

Dimensional drawing



Dimensional drawing

Dimensional drawing



Mounting cutout when used without housing

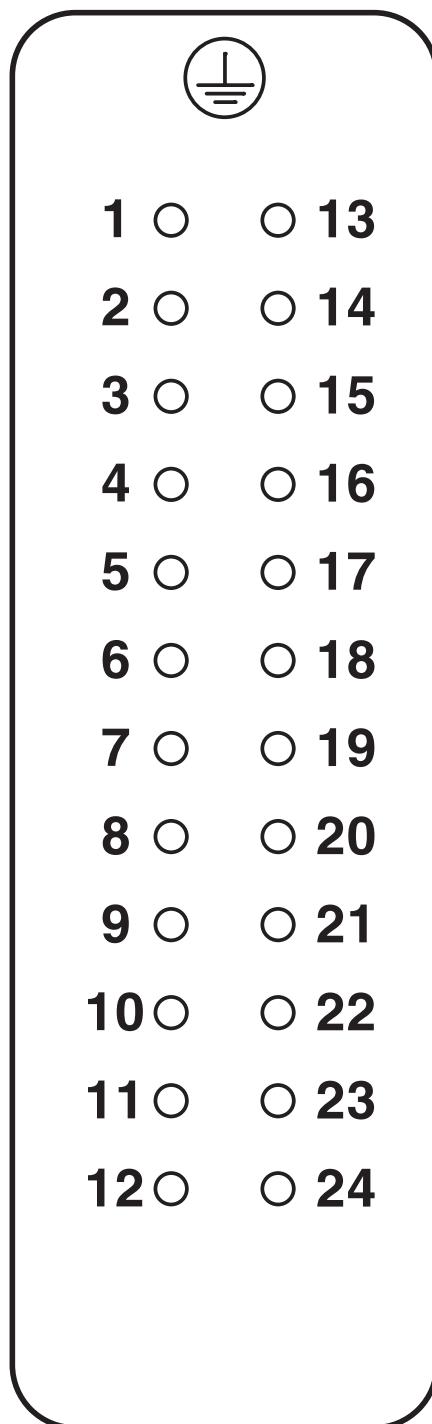
# HC-B24-I-TPT-F - Contact insert

1423022

<https://www.phoenixcontact.com/us/products/1423022>



Schematic diagram



Connector pin assignment, connection side

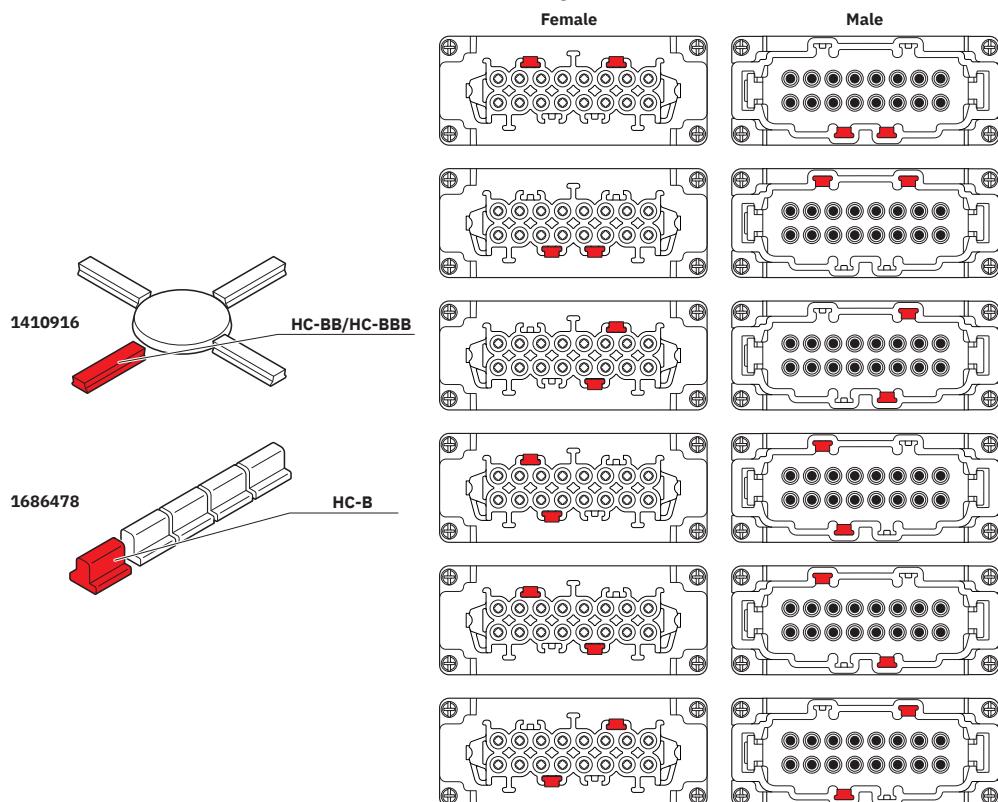
# HC-B24-I-TPT-F - Contact insert



1423022

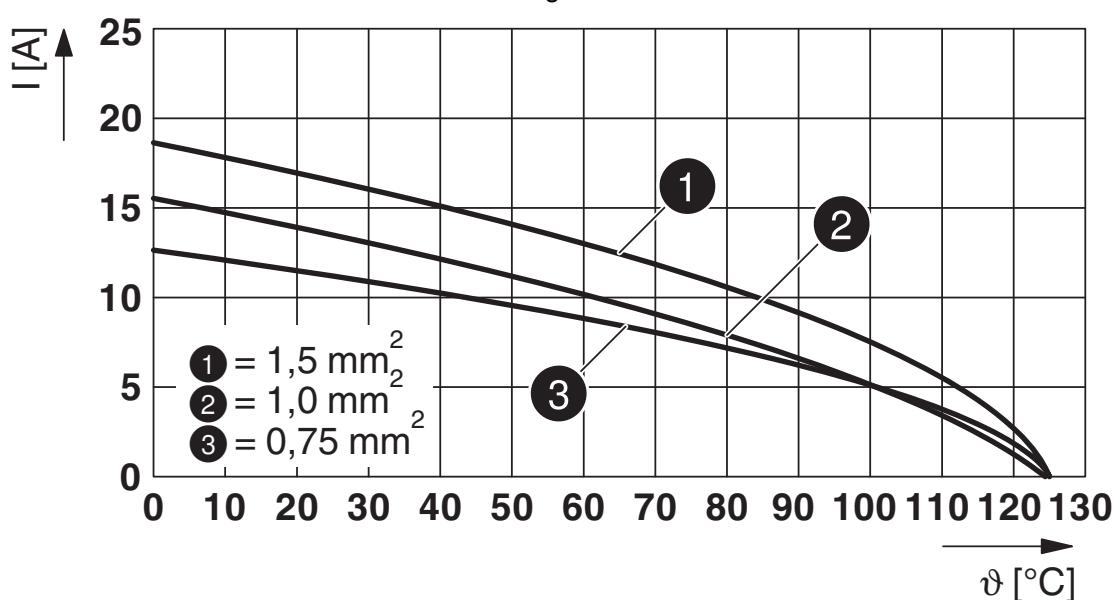
<https://www.phoenixcontact.com/us/products/1423022>

Schematic diagram



Coding options

Diagram



Derating diagram

# HC-B24-I-TPT-F - Contact insert

1423022

<https://www.phoenixcontact.com/us/products/1423022>



## Approvals

ⓘ To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1423022>

**DNV**

Approval ID: TAE000037S

CSA	Approval ID: 13631	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $mm^2$
keine		600 V	10 A	- 16	-

UL Recognized	Approval ID: E118976	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $mm^2$
keine		600 V	13 A	- 16	-

# HC-B24-I-TPT-F - Contact insert

1423022

<https://www.phoenixcontact.com/us/products/1423022>



## Classifications

### ECLASS

ECLASS-13.0	27440205
ECLASS-15.0	27440205

### ETIM

ETIM 9.0	EC000438
----------	----------

### UNSPSC

UNSPSC 21.0	39121500
-------------	----------

# HC-B24-I-TPT-F - Contact insert



1423022

<https://www.phoenixcontact.com/us/products/1423022>

## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
---	--------------------

### China RoHS

Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits

### EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%
-------------------------------------	----------------------------

Phoenix Contact 2025 © - all rights reserved

<https://www.phoenixcontact.com>

Phoenix Contact USA  
586 Fulling Mill Road  
Middletown, PA 17057, United States  
(+717) 944-1300  
[info@phoenixcon.com](mailto:info@phoenixcon.com)