

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



1423021

<https://www.phoenixcontact.com/us/products/1423021>

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Contact insert, number of positions: 24+PE, size: B24, number of connections per position: 2, Pin, 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	1423021
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF61
Product key	AF7ABC
GTIN	4055626322742
Weight per piece (including packing)	100.9 g
Weight per piece (excluding packing)	100.9 g
Customs tariff number	85366990
Country of origin	CN

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## 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
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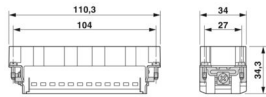
### Product properties

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
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### Connection data

#### Connection technology

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

#### Conductor connection

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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
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## 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
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## 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)
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## Drawings

Dimensional drawing

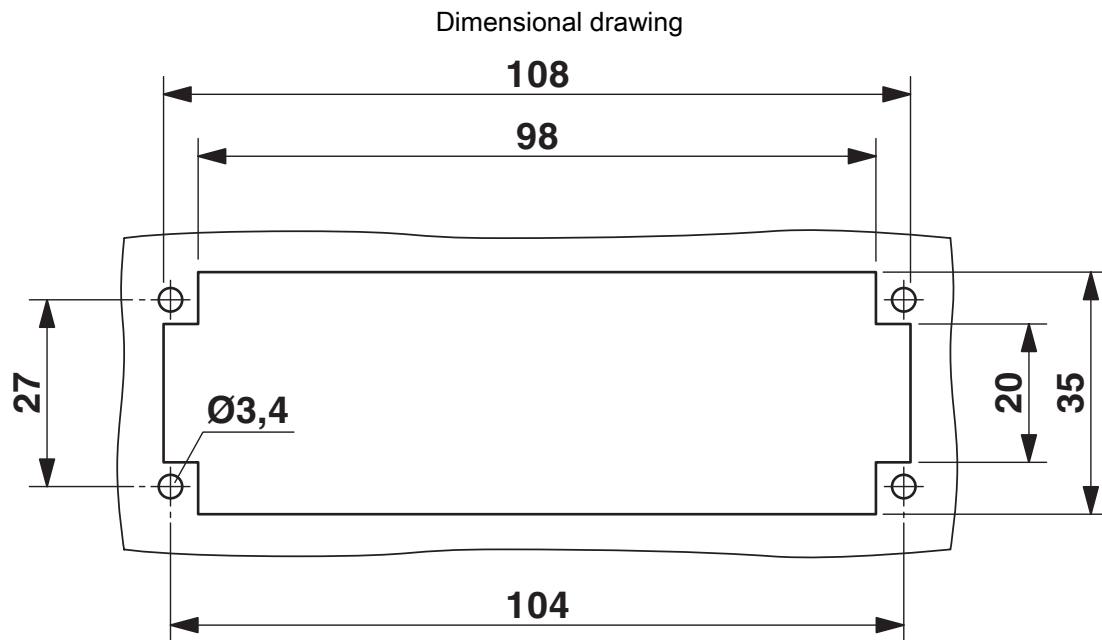


Dimensional drawing

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Mounting cutout when used without housing

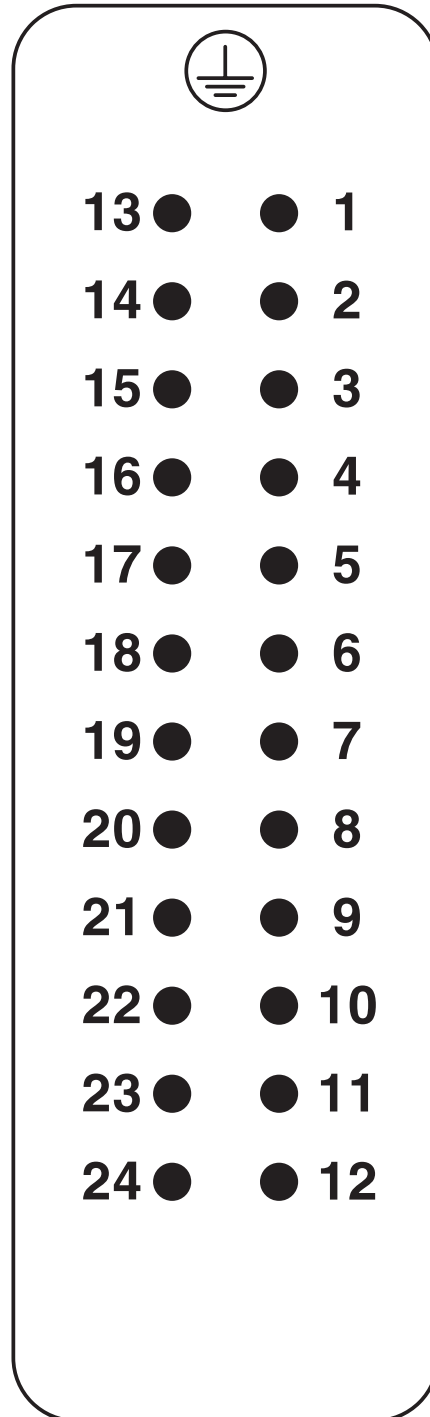
# HC-B24-I-TPT-M - Contact insert

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Schematic diagram



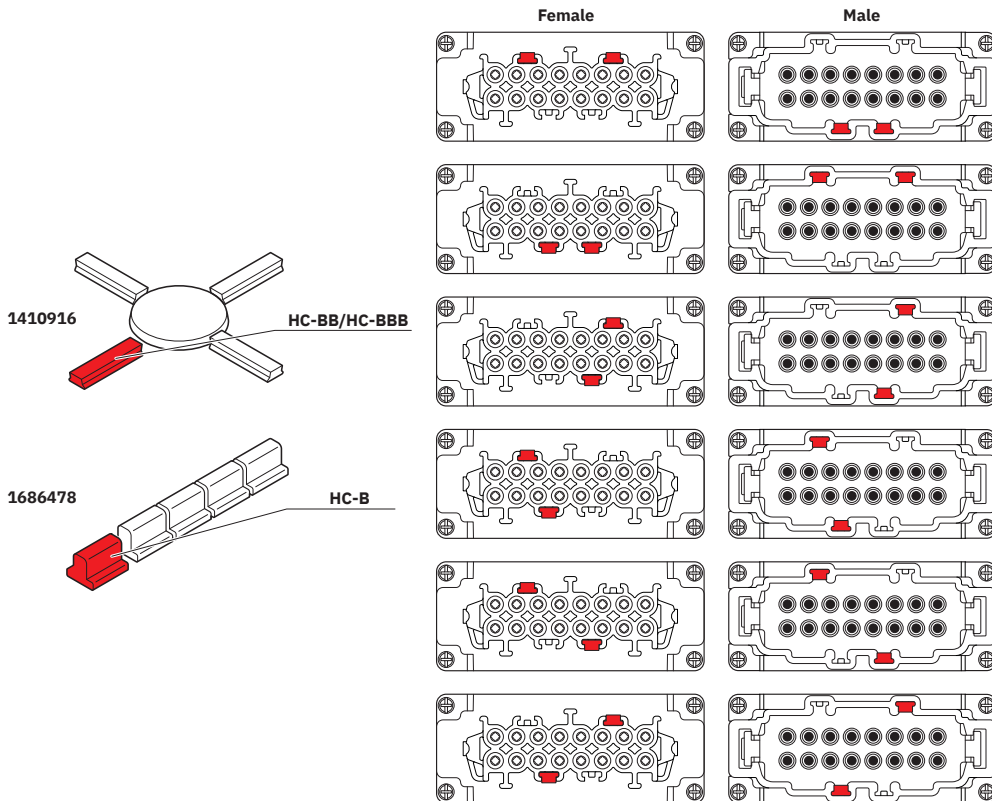
Connector pin assignment, connection side

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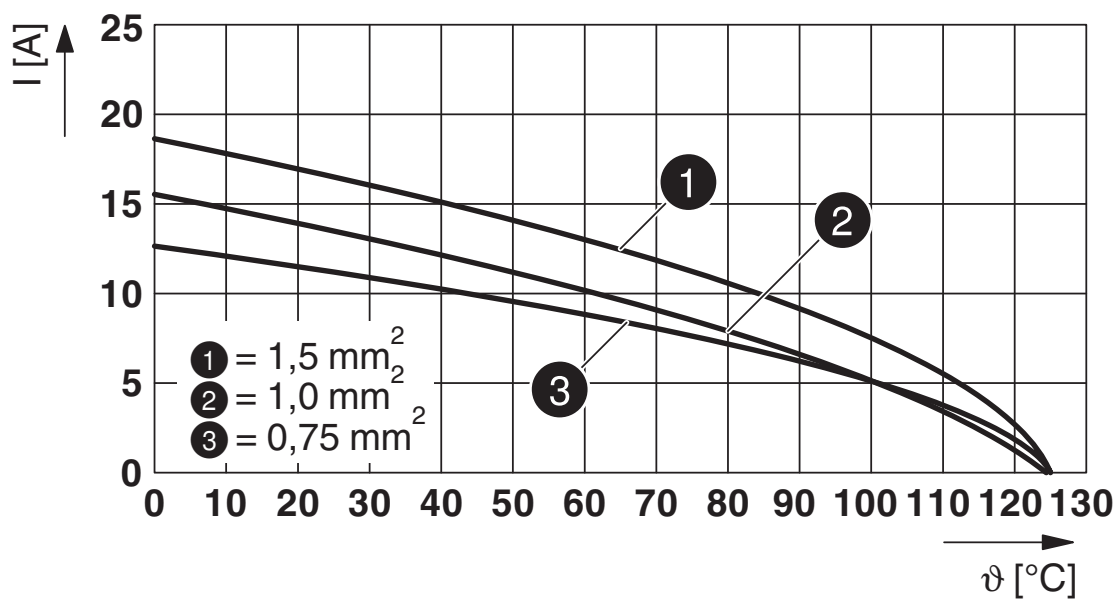
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## Schematic diagram



Coding options

## Diagram



Derating diagram

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1423021>

### DNV

Approval ID: TAE000037S



### CSA

Approval ID: 13631

	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
keine				
	600 V	10 A	- 16	-



### UL Recognized

Approval ID: E118976

	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
keine				
	600 V	13 A	- 16	-

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## Classifications

### ECLASS

ECLASS-13.0	27440205
ECLASS-15.0	27440205

### ETIM

ETIM 10.0	EC000438
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### UNSPSC

UNSPSC 21.0	39121500
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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
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### 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%
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