

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



1423022

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

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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 mm² ... 1.5 mm², 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	BF7ABC
Product key	BF7ABC
Catalog page	Page 547 (C-2-2019)
GTIN	4055626322759
Weight per piece (including packing)	112.775 g
Weight per piece (excluding packing)	111.5 g
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 instructions	To ensure correct use, installation in housing with IP54 protection or better is required
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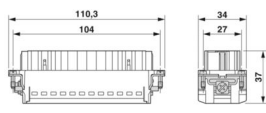
Product properties

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

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 mm² ... 1.5 mm²
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: Fire protection in rail vehicles - requirement sets R22, R23, and R24 acc. to DIN EN 45545-2 (Risk level HL1 - HL3)

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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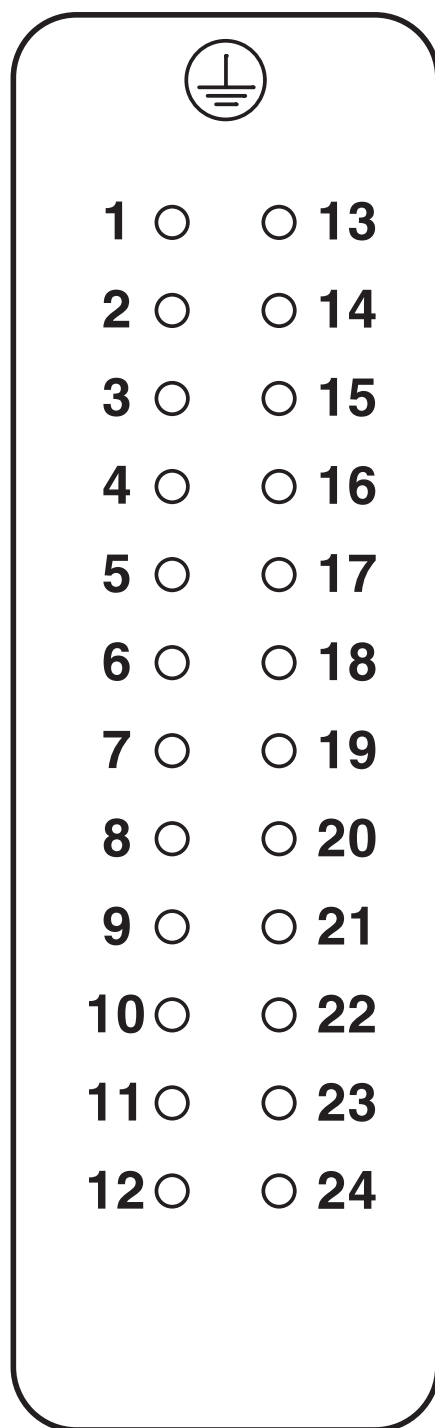
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Drawings

Schematic diagram



Connector pin assignment, connection side

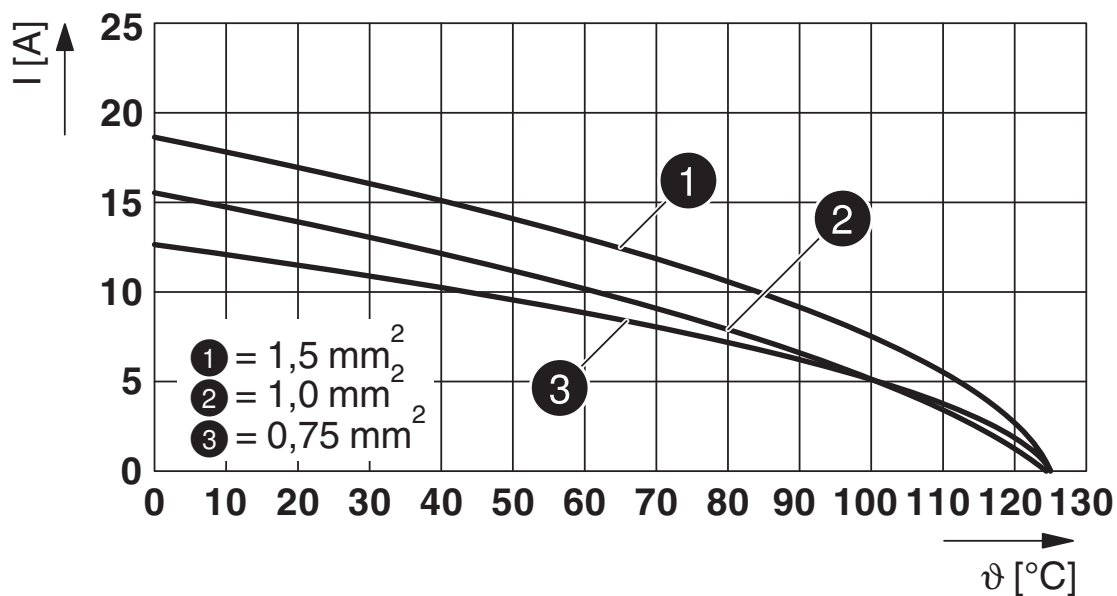
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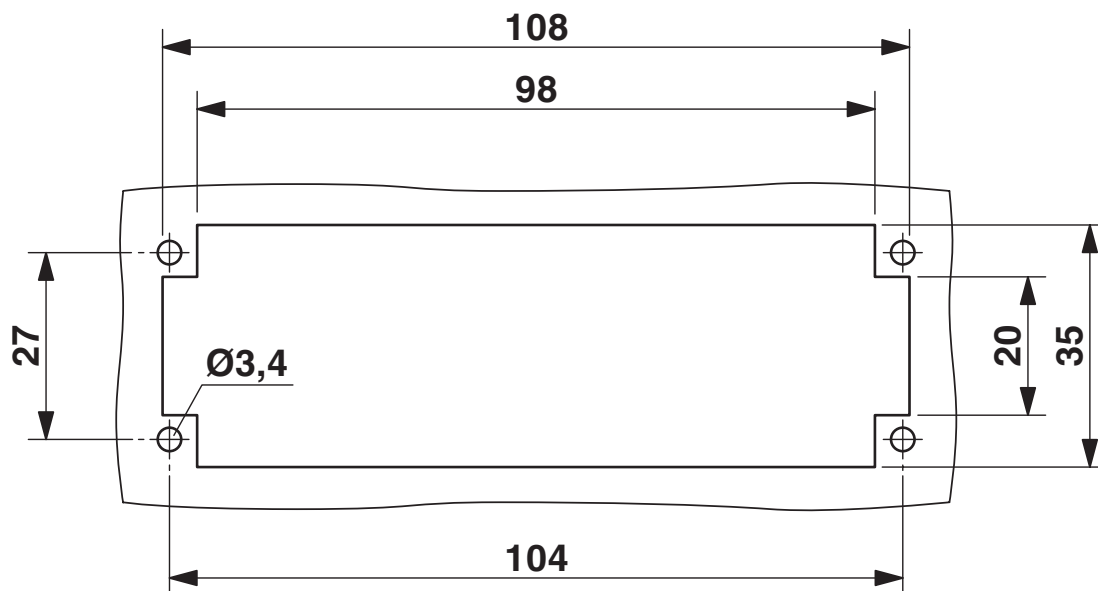


Diagram



Derating diagram

Dimensional drawing



Mounting cutout when used without housing

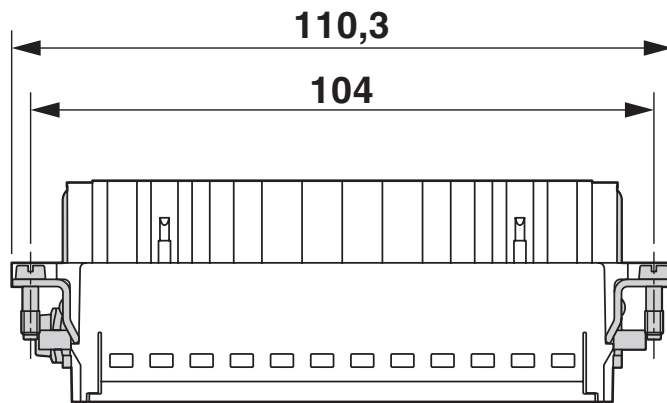
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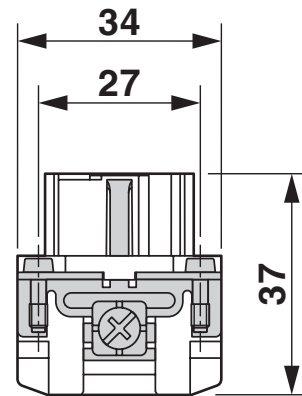
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Dimensional drawing



Dimensional drawing



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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/nz/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
	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
	600 V	13 A	- 16	-



EAC

Approval ID: RU C-DE.BL08.B.00511

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Classifications

ECLASS

ECLASS-11.0	27440205
ECLASS-12.0	27440205
ECLASS-13.0	27440205

ETIM

ETIM 9.0	EC000438
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UNSPSC

UNSPSC 21.0	39121500
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Environmental product compliance

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

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