

1407735

https://www.phoenixcontact.com/us/products/1407735

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Contact insert, number of positions: 24+PE, size: B24, number of connections per position: 1, Socket, Push-in connection, 500 V, 16 A, 0.14 mm² ... 2.5 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
- Test pick-off for 2 mm test plug

Commercial data

Item number	1407735
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF61
Product key	BF7ABC
Catalog page	Page 547 (C-2-2019)
GTIN	4046356777704
Weight per piece (including packing)	115 g
Weight per piece (excluding packing)	115 g
Customs tariff number	85366990
Country of origin	CN



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Technical data

Notes

General	only use flexible conductors with ferrules
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	НС-В
Application	Power
Туре	B24
	B48
Number of positions	24
Connection profile	24+PE
Contact numbering	1 - 24
Number of connections per position	1
Contact material type	rolled
Data management status	
Article revision	08

Insulation characteristics	
Overvoltage category	III

3

Dimensions

Degree of pollution

Dimensional drawing	110,3
Width	34 mm
Height	37 mm
Length	111 mm
Drill hole distance, horizontal	104 mm
Drill hole distance, vertical	27 mm
Mechanical characteristics	
Contact diameter	2.5 mm

Connection data



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Connection t	technol	loav
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Connection technology	Push-in connection
Number of connections per position	1
Conductor connection	
Conductor cross section	0.14 mm² 2.5 mm²
Connection cross section AWG	26 14
Tightening torque	0.8 Nm 1.2 Nm (PE connection)
	0.5 Nm 0.8 Nm (Mounting screws for mounting in the HEAVYCON housing)

8 mm ... 10 mm

Electrical properties

Stripping length

Rated voltage (III/3)	500 V
Rated surge voltage	6 kV
Rated current	16 A (power contacts)
SCCR	5 kA (UL 2237)

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/Sn (tarnish protection)
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 (including heating up of contacts)

Standards and regulations

Testing

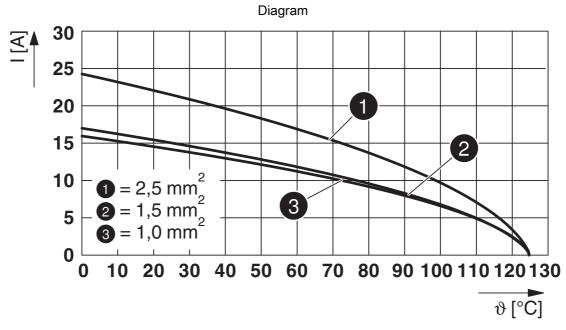
Standards/regulations	PC: Fire protection in rail vehicles - requirement sets R22, R23,
	and R24 acc. to DIN EN 45545-2 (Risk level HL1 - HL3)



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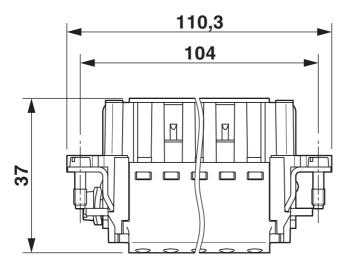


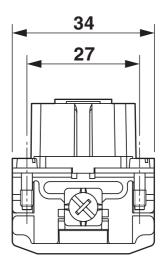
Drawings



Derating diagram

Dimensional drawing



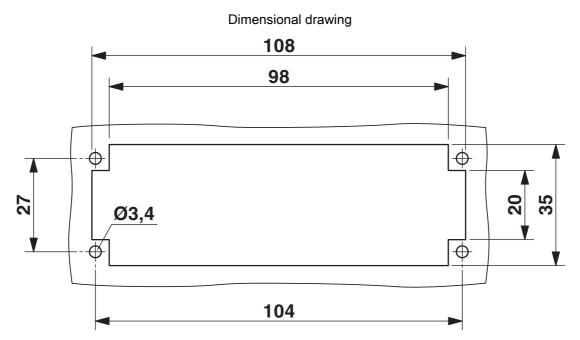


Dimensional drawing



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Mounting cutout when used without housing



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Schematic diagram



1 0 0 13

20 014

3 0 0 15

40 016

5 0 0 17

6 0 0 18

7 0 0 19

8 0 0 20

9 0 0 21

100 022

110 023

120 024

Connector pin assignment, connection side



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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1407735

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Approval ID: TAE000037S

CSA Approval ID: 13	3631			
	Nominal voltage U_N	Nominal current I _N	Cross section AWG	Cross section mm ²
	600 V	10 A	- 14	-

<i>71</i> 2	UL Recognized Approval ID: E118976				
		Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
		600 V	13 A	- 14	-

ERE	EAC
LIIL	Approval ID: RU C-DE.BL08.B.00511

est us CULu Approv	s Recognized al ID: E468743			
	Nominal voltage U_N	Nominal current I _N	Cross section AWG	Cross section mm ²
	600 V	13 A	- 14	-



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Classifications

ECLASS

27440205
27440205
27440205
EC000438

UNSPSC 21.0 3912	1500
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Environmental product compliance

EU RoHS	
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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%		



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Accessories

CP-HC - Coding profile

1686478

https://www.phoenixcontact.com/us/products/1686478



Coding profile, 4 coding profiles per strip, for insertion in coding keyways

HC-CB - Coding bolt

1772722

https://www.phoenixcontact.com/us/products/1772722



Coding pin, prevents mismating of up to six connectors with an identical number of positions



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HC-CST - Coding element

1676857

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Coding peg for coding up to 16 connectors

HC-CBU - Coding element

1676860

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Coding socket for coding up to 16 connectors



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HC-B-PE-PT - Adapter

1054672

https://www.phoenixcontact.com/us/products/1054672



PE adapter with PT connection, for 1 PE connection, for HC-B / HC-BB / HC-DD / HC-D40 / HC-D64 contact inserts

HC-B-2PE-PT - PE multiplier

1054675

https://www.phoenixcontact.com/us/products/1054675



PE adapter with PT connection, for 2 PE connections, for HC-B / HC-BB / HC-DD / HC-D40 / HC-D64 contact inserts



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HC-B-3PE - PE multiplier

1644326

https://www.phoenixcontact.com/us/products/1644326

PE multiplier, for 3 PE connections, for HC-B / HC-BB / HC-DD / HC-D40 / HC-D64 contact inserts



HC-B-PES - Screw

1604997

https://www.phoenixcontact.com/us/products/1604997



PE screw, for contact inserts HC-B / HC-BB / HC-DD / HC-D40 / HC-D64



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HC-B-ZG - Strain relief clamp

1685327

https://www.phoenixcontact.com/us/products/1685327



Strain relief clamps contact inserts of series: B-, BB-, D 40, D 64, DD and HV, straight cable exit

HC-B-ZS - Strain relief clamp

1685330

https://www.phoenixcontact.com/us/products/1685330



Strain relief clamps contact inserts of series: B-, BB-, D 40, D 64, DD and HV, lateral cable exit



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HC-CIF-B24-HFWL-PL - DIN rail mounting frame

1424337

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DIN rail mounting frame, design: B24, for contact inserts, Top frame

HC-B 24-ANDOCK - Docking frame

1586141

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Docking frame for racks, for contact inserts of B24 type, with four M5 flat headed screws, rack balance x/y axis \pm 1.5 mm



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HC-CIF-B06-24-BFAFL-PL - DIN rail mounting frame

1424338

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DIN rail mounting frame, design: B6 - B24, for contact inserts, Base frame

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

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CRIMPFOX 6 - Crimping pliers

1212034

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Crimping pliers, for ferrules without insulating collar according to DIN 46228 Part 1 and ferrules with insulating collar according to DIN 46228 Part 4, $0.25~\text{mm}^2$... $6.0~\text{mm}^2$, lateral entry, trapezoidal crimp

CRIMPFOX CENTRUS 10S - Crimping pliers

1213154

https://www.phoenixcontact.com/us/products/1213154



Crimping pliers, for uninsulated and insulated ferrules, DIN 46228 Part 1 and 4, from 0.14 mm^2 ... 10 mm^2 , also for TWIN ferrules up to 2 x 4 mm^2 , automatic cross section adjustment, lateral insertion, equipped with fall protection



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CRIMPFOX CENTRUS 6S - Crimping pliers

1213144

https://www.phoenixcontact.com/us/products/1213144



Crimping pliers, for uninsulated and insulated ferrules, DIN 46228 Part 1 and 4, from 0.14 mm^2 ... 6 mm^2 , also for TWIN ferrules up to 2 x 4 mm^2 , automatic cross section adjustment, lateral insertion, equipped with fall protection

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