

1648186

https://www.phoenixcontact.com/us/products/1648186

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Contact insert, number of positions: 10+PE, size: B10, number of connections per position: 1, Socket, Screw connection, 500 V, 16 A, 0.5 mm² ... 2.5 mm², application: Power

Your advantages

- · For fast coding with plastic profile

- · For test pin 2 mm

Commercial data

Item number	1648186
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF61
Product key	BF7ABC
Catalog page	Page 543 (C-2-2019)
GTIN	4046356092319
Weight per piece (including packing)	66.1 g
Weight per piece (excluding packing)	66.1 g
Customs tariff number	85366990
Country of origin	CN



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Technical data

Notes

General	for flexible conductors with or without ferrules
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
Connection method	Screw connection

Product properties

Туре	B10
Product type	Contact insert with a fixed no. of positions
Number of positions	10
Connection profile	10+PE
Contact numbering	1 - 10
Application	Power
Number of connections per position	1
Contact material type	turned
Series	HC-B
Screwdriver blade	0.5 x 3.5 mm

Insulation characteristics

Overvoltage category	III
Degree of pollution	3

Dimensions

Dimensional drawing	63,4 57 27 27 66 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)
Width	34 mm
Height	34.6 mm
Length	64 mm
Drill hole distance, horizontal	57 mm
Drill hole distance, vertical	27 mm
Mechanical characteristics	
Contact diameter	2.5 mm

Connection data

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Connection	tecnno	logy

Connection technology	Screw connection
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N 1 6 11 11	
Number of connections per position	1
Connection in acc. with standard	IEC / EN
Conductor connection	
Conductor cross section	0.5 mm² 2.5 mm²
Connection cross section AWG	20 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)
	0.5 Nm 0.8 Nm
Stripping length of the individual wire	8 mm
Electrical properties	
Rated voltage (III/3)	500 V
Rated surge voltage	6 kV
Rated current	16 A
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
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	
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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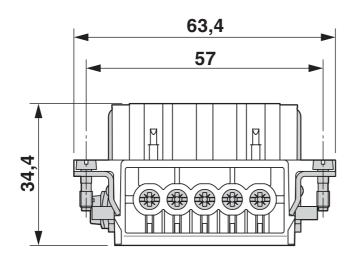


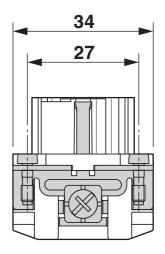
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Drawings

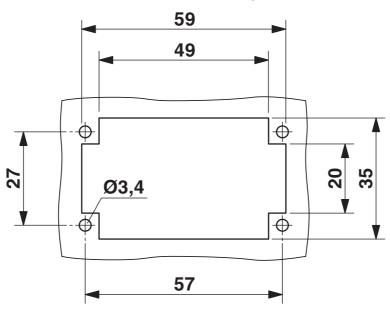
Dimensional drawing





Female insert

Dimensional drawing

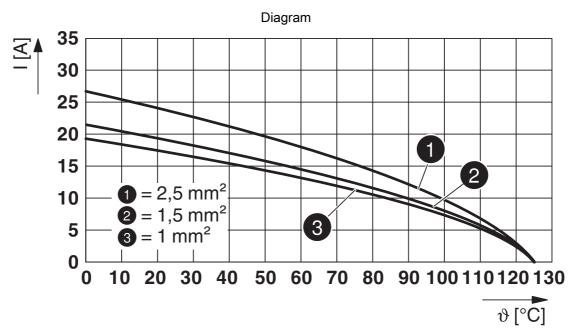


Mounting cutout when used without housing



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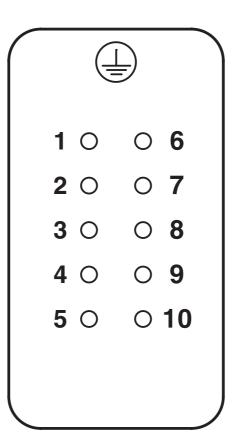
Derating diagram



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Schematic diagram



Connector pin assignment, connection side



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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1648186

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Approval ID: TAE000037S

CSA Approval ID: 013631_62	33_01			
	Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
	600 V	13 A	22 - 14	-

7.1	UL Recognized Approval ID: FILE E 118	976			
		Nominal voltage U_N	Nominal current I _N	Cross section AWG	Cross section mm ²
		600 V	16 A	- 14	-

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

cULus Ro	cULus Recognized Approval ID: E468743			
	Nominal voltage U_N	Nominal current I _N	Cross section AWG	Cross section mm ²
	600 V	14 A	- 14	-



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Classifications

UNSPSC 21.0

ECLASS

ECLASS-11.0	27440205
ECLASS-12.0	27440205
ECLASS-13.0	27440205
ETIM	
ETIM 9.0	EC000438
UNSPSC	

39121500



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Environmental product compliance

REACh SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"



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Accessories

CP-HC - Coding profile

1686478

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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

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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-B10-HFWL-PL - DIN rail mounting frame

1424335

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DIN rail mounting frame, design: B10, for contact inserts, Top frame

HC-B 10-ANDOCK - Docking frame

1586125

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Docking frame for racks, for contact inserts of B10 type, with four M5 flat headed screws, rack balance x/y axis ± 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-B24/10-ADP-SS - Adapter plate

1034213

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Adapter plate, design: B24 to B10





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HC-B 10-I-UT-M - Contact insert

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Contact insert, number of positions: 10+PE, size: B10, number of connections per position: 1, Pin, Screw connection, 500 V, 16 A, 0.5 $\rm mm^2$... 2.5 $\rm mm^2$, application: Power

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