1648128

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Contact insert, number of positions: 6+PE, size: B6, 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	1648128
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF61
Product key	BF7ABC
Catalog page	Page 541 (C-2-2019)
GTIN	4046356092241
Weight per piece (including packing)	49.5 g
Weight per piece (excluding packing)	49.2 g
Customs tariff number	85366990
Country of origin	CN

1648128

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Technical data

Notes

General Connectors may be operated only when there is no load/voltage.	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

Product properties

Туре	B6
Product type	Contact insert with a fixed no. of positions
Number of positions	6
Connection profile	6+PE
Contact numbering	1 - 6
Application	Power
Number of connections per position	1
Contact material type	turned
Series	НС-В
Screwdriver blade	0.5 x 3.5 mm

Insulation characteristics

Overvoltage category	III
Degree of pollution	3

Dimensions

Dimensional drawing	
Width	34 mm
Height	34.6 mm
Length	50.5 mm
Drill hole distance, horizontal	44 mm
Drill hole distance, vertical	27 mm

Mechanical characteristics

Contact diameter	2.5 mm

Connection data

Connection technology	
Connection technology	Screw connection
Number of connections per position	1

1648128

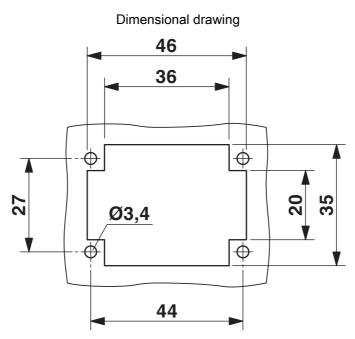
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Connection in acc. with standard	IEC / EN
Conductor connection	
Conductor cross section	0.5 mm ² 2.5 mm ²
Connection cross section AWG	20 14
Tightening torque	0.8 Nm 1.2 Nm (PE connection)
	0.5 Nm 0.8 Nm (Mounting screws for mounting in the HEAVYCON housing)
	0.5 Nm 0.8 Nm
Stripping length of the individual wire	8 mm
ectrical properties	
Rated voltage (III/3)	500 V
Rated surge voltage	6 kV
Rated current	16 A
SCCR	5 kA (UL 2237)
Mechanical data Insertion/withdrawal cycles	≥ 500
aterial 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)
nvironmental and real-life conditions	
Ambient conditions	
Ambient conditions Ambient temperature (operation)	-40 °C 125 °C (including heating up of contacts)
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Ambient temperature (operation)	-40 °C 125 °C (including heating up of contacts) DIN EN 61984
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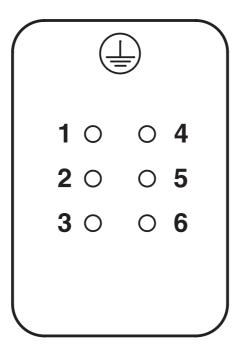
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Drawings



Mounting cutout when used without housing

Schematic diagram

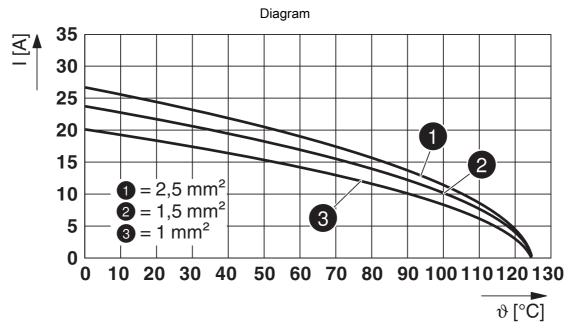


Connector pin assignment, connection side



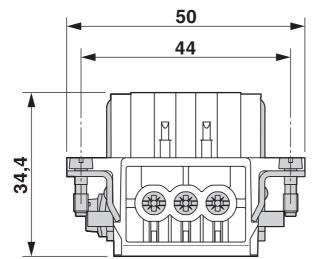
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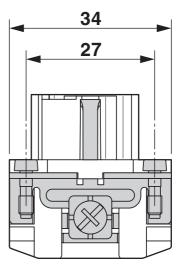


Derating diagram

Dimensional drawing



Female insert



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Approvals

🌣 To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1648128

DN\	-				
Appro	roval ID: TAE000037S				
	CSA				
- A	Approval ID: 013631_6233_	_01			
		Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
		600 V	13 A	22 - 14	-
	UL Recognized				
	Approval ID: FILE E 1189	976			
		Nominal voltage U _N	Nominal current IN	Cross section AWG	Cross section mm ²
		Nominal voltage U _N	Nominal current I _N		Cross section mm ²
		Nominal voltage U _N 600 V	Nominal current I _N 16 A	Cross section AWG - 14	Cross section mm ²
		600 V			
	EAC Approval ID: RU C-DE.BL0	600 V			
		600 V			
		600 V			
nL ,	Approval ID: RU C-DE.BLC	600 V 08.B.00511			
	Approval ID: RU C-DE.BLC	600 V 08.B.00511 ed			
nl ,	Approval ID: RU C-DE.BLC	600 V 98.B.00511	16 A	- 14	-
nl ,	Approval ID: RU C-DE.BLC	600 V 08.B.00511 ed			

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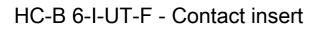
Classifications

ECLASS

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

ETIM

	ETIM 9.0	EC000438	
UNSPSC			
	UNSPSC 21.0	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 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

https://www.phoenixcontact.com/us/products/1676857

Coding peg for coding up to 16 connectors



HC-CBU - Coding element

1676860 https://www.phoenixcontact.com/us/products/1676860



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-B06-HFWL-PL - DIN rail mounting frame

1424334

https://www.phoenixcontact.com/us/products/1424334



DIN rail mounting frame, design: B6, for contact inserts, Top frame

HC-B 6-ANDOCK - Docking frame

1586112 https://www.phoenixcontact.com/us/products/1586112



Docking frames for racks, for type B6 contact inserts, with 4 M5 flat headed screws, slide-in offset for x/y axis of ± 1.5 mm

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

1424338

https://www.phoenixcontact.com/us/products/1424338



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

HC-B24/6-ADP-SS - Adapter plate

1034215 https://www.phoenixcontact.com/us/products/1034215

Adapter plate, design: B24 to B6



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HC-B 6-I-UT-M - Contact insert

1648115

https://www.phoenixcontact.com/us/products/1648115



Contact insert, number of positions: 6+PE, size: B6, 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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