

# HC-B10-I-PT-CI-F - Contact insert



1350017

<https://www.phoenixcontact.com/us/products/1350017>

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Contact insert, number of positions: 10+2 PE, size: B10, number of connections per position: 1, Socket, Push-in connection, 500 V, 16 A, 0.14 mm<sup>2</sup> ... 2.5 mm<sup>2</sup>, application: Power, tool-free Click-in mounting

## Your advantages

- Significant time savings and improved handling: Consistent and easy tool-free installation and mounting with Push-in connection technology and innovative Click-in latching
- Tool-free installation and mounting of the PE connection with Push-in connection technology
- Shortest installation time compared to other connection technologies
- Quick and effortless wiring, in particular when space is tight
- Secure installation: Audible and tangible latching of the contact inserts in the connector housing
- Reliable connection: The Click-in contact insert latches into the housing creating a shock- and vibration-resistant connection in accordance with DIN EN 61373
- Easy integration: Click-in contact inserts fit in all plastic and metal housings of the HEAVYCON STANDARD and EVO series
- Automatic cabling with robots possible
- Safe wiring and operation with color-coded actuators
- Cost-effective and fast coding with plastic profiles
- Test pick-off for 2 mm test plug
- Shock and vibration-resistant in accordance with DIN EN 61373

## Commercial data

Item number	1350017
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF61
Product key	BF7ABC
GTIN	4063151669133
Weight per piece (including packing)	64.48 g
Weight per piece (excluding packing)	64.48 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

Mounting type	tool-free snap-in
Assembly note	To ensure correct use, installation in housing with IP54 protection or better is required
	tool-free snap-in into all plastic and metal housings of the HEAVYCON STANDARD and EVO series, and into metal housings of the HEAVYCON ADVANCED series

### Product properties

Product type	Contact insert with a fixed no. of positions
Series	HC-B
Application	Power
Type	B10
Number of positions	10
Connection profile	10+2 PE
Contact numbering	1 - 10
Number of connections per position	1
Contact material type	rolled

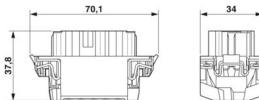
### Data management status

Article revision	02
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### Insulation characteristics

Overvoltage category	III
Degree of pollution	3

### Dimensions

Dimensional drawing	
Width	34 mm
Height	37 mm
Length	64 mm
Drill hole distance, horizontal	57 mm
Drill hole distance, vertical	27 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	1

### Conductor connection

Conductor cross section	0.14 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Connection cross section AWG	26 ... 14
Stripping length	8 mm ... 10 mm

## Electrical properties

Rated voltage (III/3)	500 V
Rated surge voltage	6 kV
Rated current	16 A (power contacts)

## 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/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)
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## 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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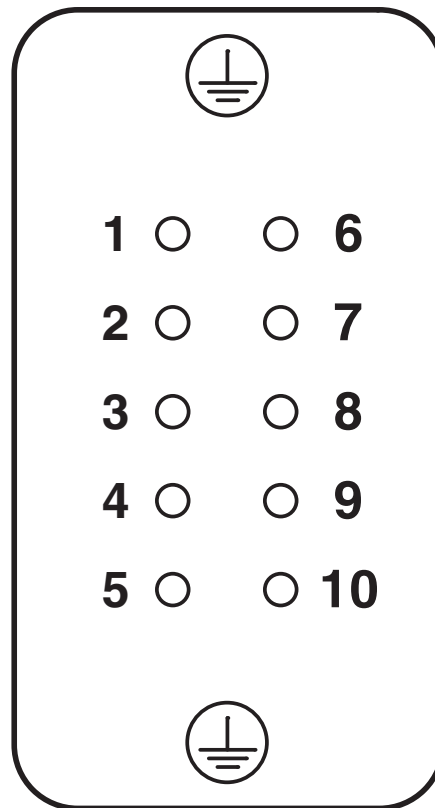
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## Drawings

Schematic diagram



Connector pin assignment, connection side

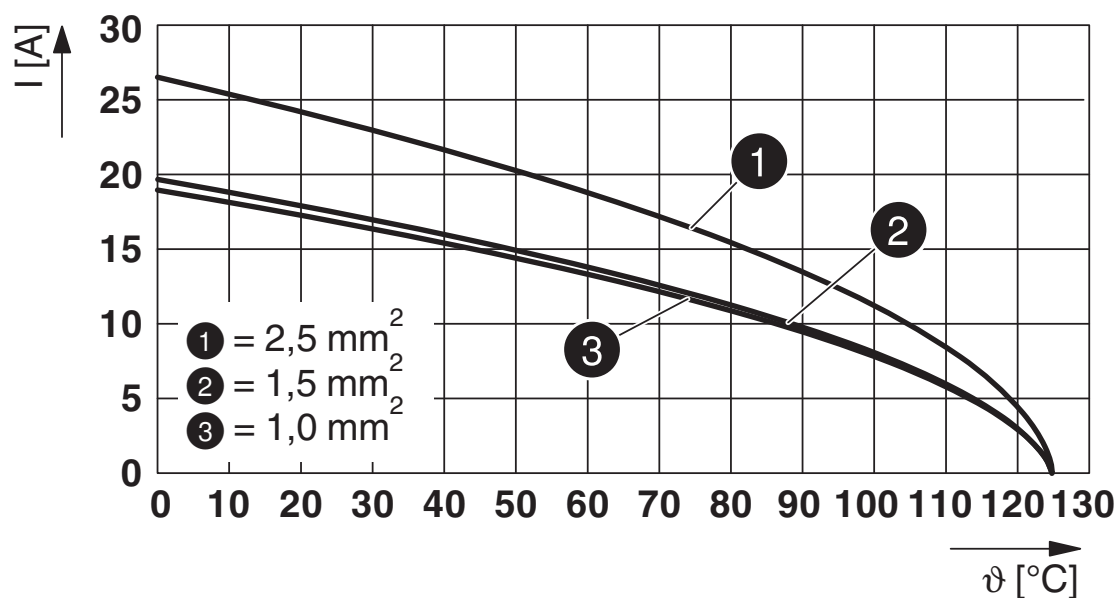
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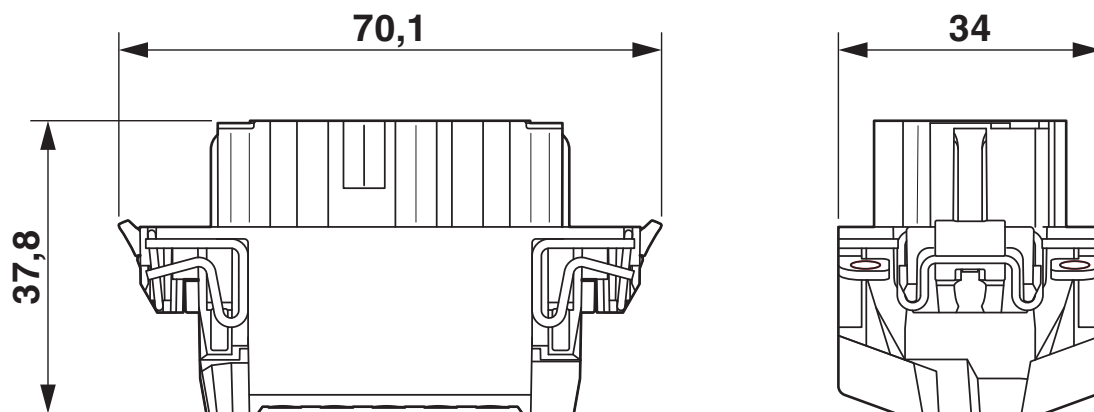


Diagram



Derating diagram

Dimensional drawing



Dimensional drawing

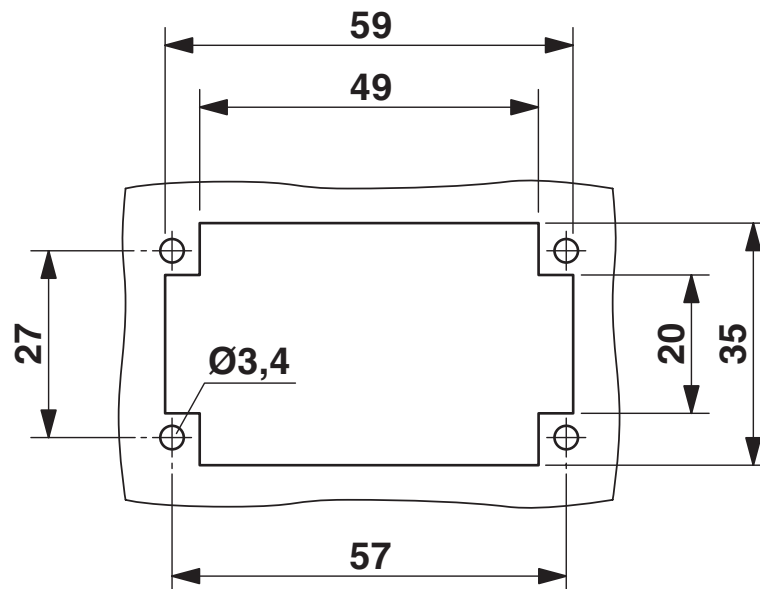
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Dimensional drawing



Mounting cutout when used without housing

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1350017>

	<b>cULus Recognized</b> Approval ID: E468743			
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
	600 V	13 A	- 14	-

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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

EU RoHS	
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

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### HC-CB - Coding bolt

1772722

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



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

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## HC-CBU-MOD - Coding element

1636130

<https://www.phoenixcontact.com/us/products/1636130>



Coding socket for coding up to 16 connectors, for HC Modular

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## HC-CST-MOD - Coding element

1636127

<https://www.phoenixcontact.com/us/products/1636127>



Coding peg for coding up to 16 connectors, for HC Modular

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## HC-B 10-ANDOCK - Docking frame

1586125

<https://www.phoenixcontact.com/us/products/1586125>



Docking frame for racks, for contact inserts of B10 type, with four M5 flat headed screws, rack balance x/y axis  $\pm 1.5$  mm

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## HC-B24/10-ADP-SS - Adapter plate

1034213

<https://www.phoenixcontact.com/us/products/1034213>



Adapter plate, design: B24 to B10

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## SCREW M3X10 H1L - Screw set

1209790

<https://www.phoenixcontact.com/us/products/1209790>

Screws



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## HC-B10-I-PT-CI-M - Contact insert

1350020

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## SZF 0-0,4X2,5 - Screwdriver

1204504

<https://www.phoenixcontact.com/us/products/1204504>



Actuation tool, for ST terminal blocks, also suitable for use as a bladed screwdriver, size: 0.4 x 2.5 x 75 mm, 2-component grip, with non-slip grip

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## CRIMPFOX 6 - Crimping pliers

1212034

<https://www.phoenixcontact.com/us/products/1212034>



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 mm<sup>2</sup> ... 6.0 mm<sup>2</sup>, lateral entry, trapezoidal crimp

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## 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<sup>2</sup> ... 10 mm<sup>2</sup>, also for TWIN ferrules up to 2 x 4 mm<sup>2</sup>, 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<sup>2</sup> ... 6 mm<sup>2</sup>, also for TWIN ferrules up to 2 x 4 mm<sup>2</sup>, automatic cross section adjustment, lateral insertion, equipped with fall protection

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