

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



1350020

<https://www.phoenixcontact.com/us/products/1350020>

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Contact insert, number of positions: 10+2 PE, size: B10, number of connections per position: 1, Pin, Push-in connection, 500 V, 16 A, 0.14 mm² ... 2.5 mm², 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	1350020
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF61
Product key	AF7ABC
GTIN	4063151669201
Weight per piece (including packing)	60.3 g
Weight per piece (excluding packing)	60.8 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

Insulation characteristics

Overvoltage category	III
Degree of pollution	3

Dimensions

Dimensional drawing	
Width	34 mm
Height	34.4 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

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Connection technology	Push-in connection
Number of connections per position	1

Conductor connection

Conductor cross-section	0.14 mm ² ... 2.5 mm ²
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)
SCCR	5 kA (UL 2237)

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

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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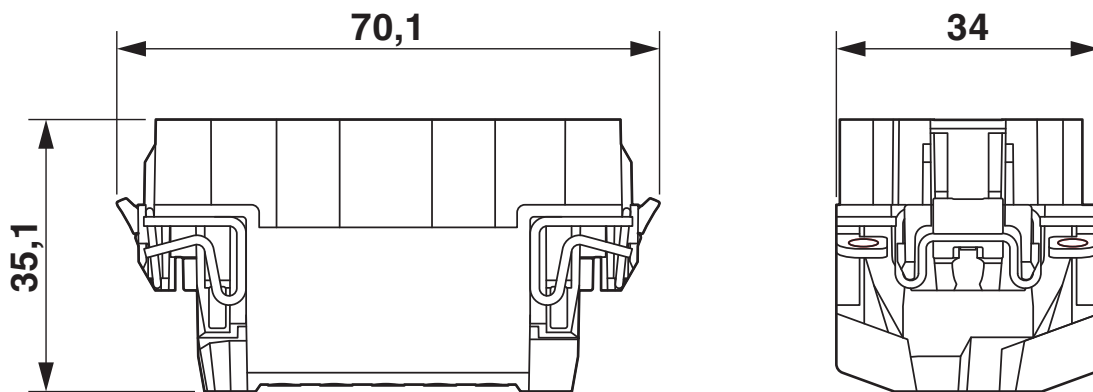
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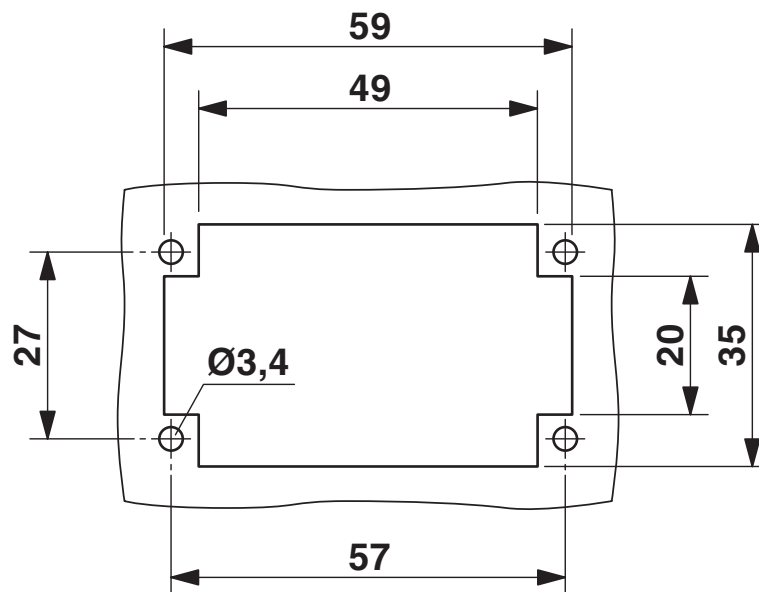
Drawings

Dimensional drawing



Dimensional drawing

Dimensional drawing



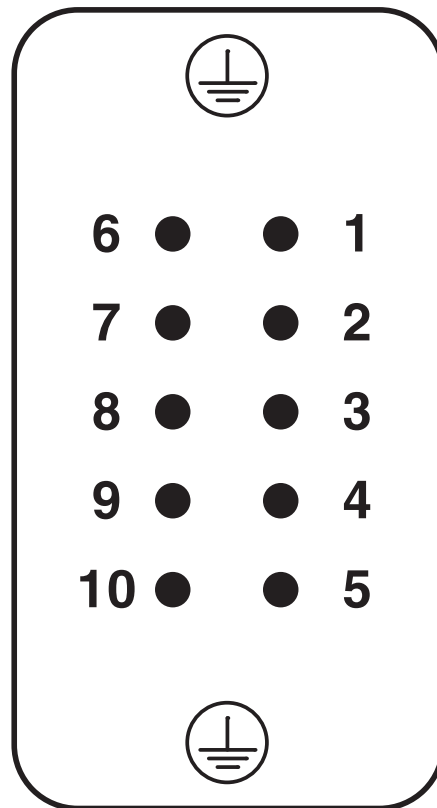
Mounting cutout when used without housing

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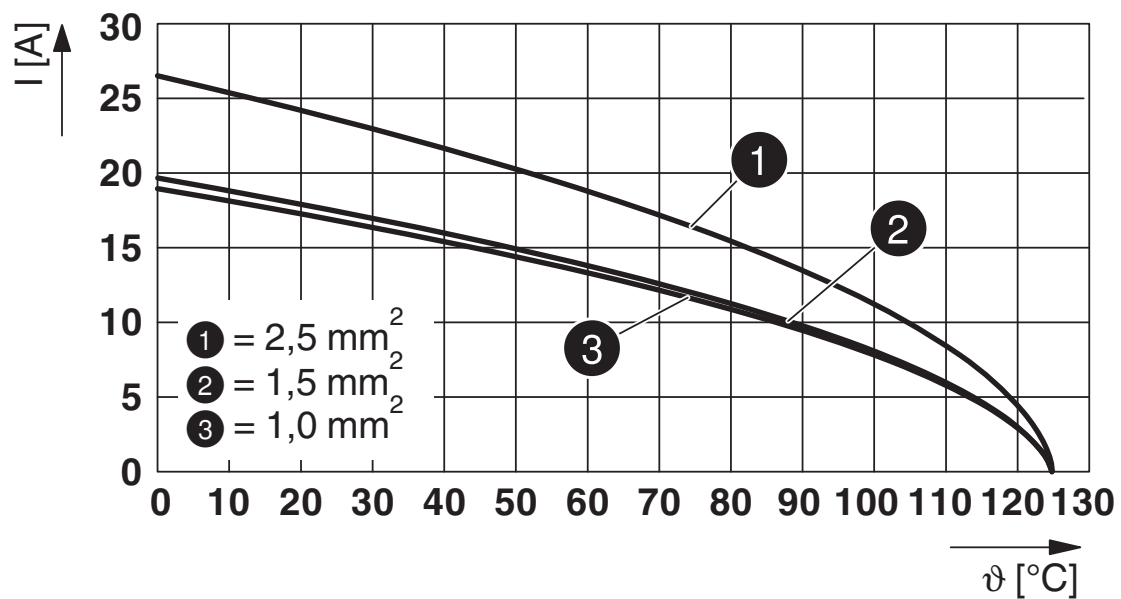
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Schematic diagram



Connector pin assignment, connection side

Diagram



Derating diagram

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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1350020>

 cULus Recognized Approval ID: E468743				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
keine				
	600 V	13 A	- 14	-

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Classifications

ECLASS

ECLASS-15.0	27440205
ECLASS-13.0	27440205

ETIM

ETIM 10.0	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
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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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