HC-B16-I-PT-CI-M - Contact insert

1350015

https://www.phoenixcontact.com/us/products/1350015

Contact insert, number of positions: 16+2+PE, size: B16, number of connections per position: 1, Pin, Push-in connection, 500 V, 16 A, 0.14 mm^2 ... 2.5 mm^2, 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 connection for 2 mm test plug

Commercial data

Item number	1350015
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF61
Product key	BF7ABC
GTIN	4063151667757
Weight per piece (including packing)	80.1 g
Weight per piece (excluding packing)	70.2 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

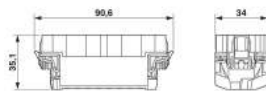| Mounting type	tool-free snap-in
Assembly instructions	To ensure correct use, installation in housing with IP54 protection or better is required
	tool-free snap-in into all plastic and metal housings of the HEAVYCON STANDARD and EVO series, and into metal housings of the HEAVYCON ADVANCED series
Connection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

Product properties

Type	B16
Product type	Contact insert with a fixed no. of positions
Number of positions	16
Connection profile	16+2+PE
Contact numbering	1 - 16
Application	Power
Number of connections per position	1
Contact material type	rolled
Series	HC-B

Insulation characteristics

Overvoltage category	III
Degree of pollution	3

Dimensions

Dimensional drawing	
Width	34 mm
Height	34.4 mm
Length	84 mm
Drill hole distance, horizontal	77.5 mm
Drill hole distance, vertical	27 mm

Mechanical characteristics

Contact diameter	2.5 mm

Connection data

Connection technology

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
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

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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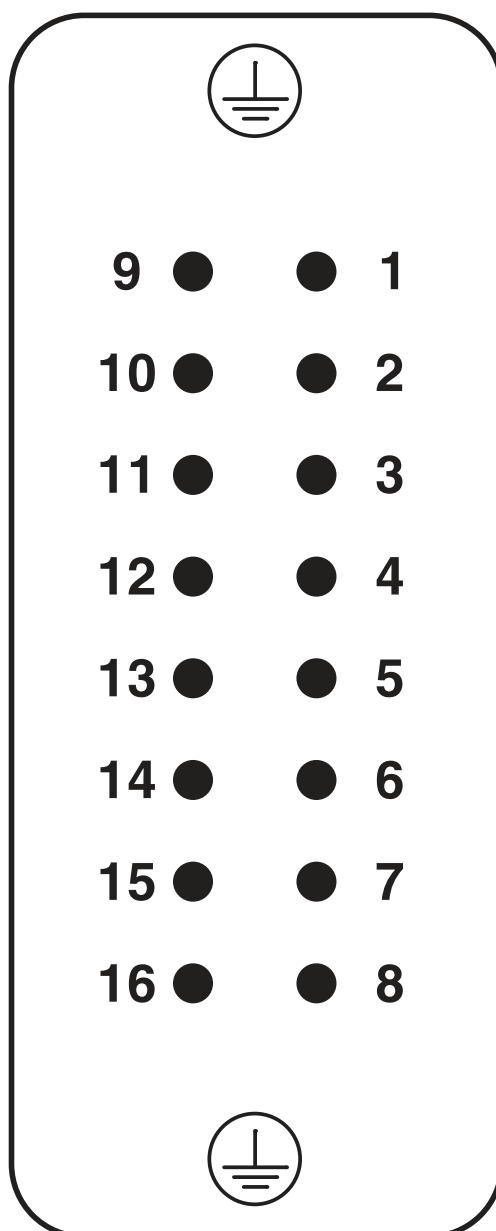
https://www.phoenixcontact.com/us/products/1350015

Drawings

Schematic diagram

Connector pin assignment, connection side

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https://www.phoenixcontact.com/us/products/1350015

Dimensional drawing

82

72

27

Ø3,4

20

35

77,5
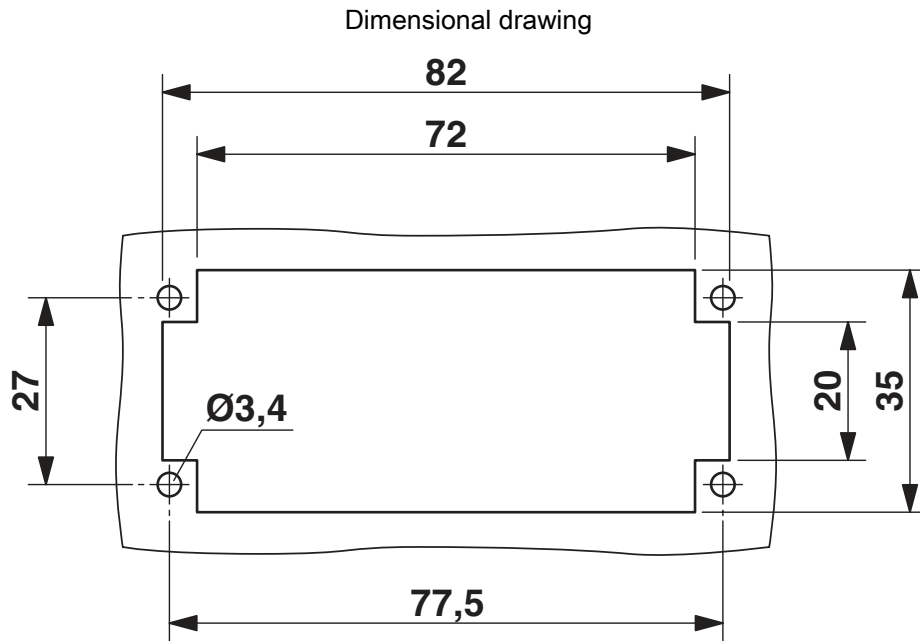
Mounting cutout when used without housing

Dimensional drawing

90,6

35,1

34
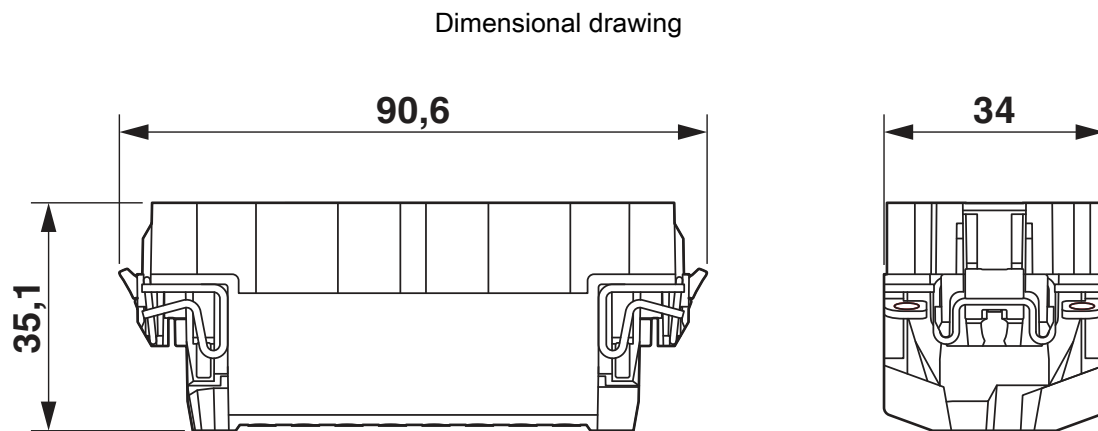
Dimensional drawing

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Diagram

I [A]

30
25
20
15
10
5
0

1 = 2,5 mm^2
2 = 1,5 mm^2
3 = 1,0 mm^2

0 10 20 30 40 50 60 70 80 90 100 110 120 130

ϑ [°C]
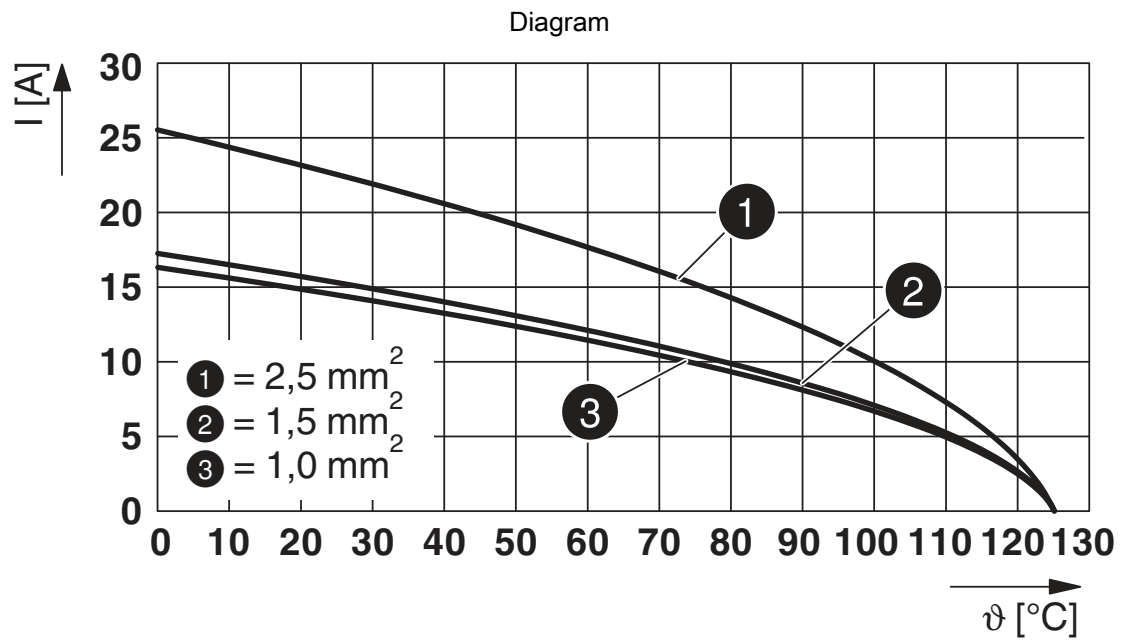
Derating diagram

Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1350015

cULus Recognized
Approval ID: E468743

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	600 V	13 A	- 14	-

HC-B16-I-PT-CI-M - Contact insert

Classifications

ECLASS

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

ETIM

ETIM 8.0	EC000438

UNSPSC

UNSPSC 21.0	39121500

Environmental product compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

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https://www.phoenixcontact.com/us/products/1350015

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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https://www.phoenixcontact.com/us/products/1350015

HC-CBU-MOD - Coding element

1636130

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

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

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 16-ANDOCK - Docking frame

1586138

https://www.phoenixcontact.com/us/products/1586138

Docking frame for racks, for contact inserts of B16 type, with four M5 flat headed screws, rack balance x/y axis ± 1.5 mm

HC-B24/16-ADP-SS - Adapter plate

1034216

https://www.phoenixcontact.com/us/products/1034216

Adapter plate, design: B24 to B16

HC-B16-I-PT-CI-M - Contact insert

1350015

https://www.phoenixcontact.com/us/products/1350015

SCREW M3X10 H1L - Screw set

1209790

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

Screws

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 2×4 mm^2, automatic cross section adjustment, lateral insertion, equipped with fall protection

HC-B16-I-PT-CI-M - Contact insert

1350015

https://www.phoenixcontact.com/us/products/1350015

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^2 ... 6.0 mm^2, lateral entry, trapezoidal crimp

CF CRIMPHANDY 0,5 - Electrical crimping tool

1212463

https://www.phoenixcontact.com/us/products/1212463

Mobile handheld device, battery-powered, for processing on-tape ferrules 0.5 mm^2 with functional end, suitable for PVC insulated conductors (H05V-K), incl. battery, charger, CUTFOX 12 cable cutter, waste guide plate 2, service tool for error correction, and one strip of ferrules 0.5 mm^2, packed in a robust case.

HC-B16-I-PT-CI-M - Contact insert

1350015

https://www.phoenixcontact.com/us/products/1350015

CF CRIMPHANDY 0,75 - Electrical crimping tool

1212464

https://www.phoenixcontact.com/us/products/1212464

Mobile handheld device, battery-powered, for processing on-tape ferrules 0.75 mm^2 with functional end, suitable for PVC insulated conductors (H05V-K), incl. battery, charger, CUTFOX 12 cable cutter, waste guide plate 2, service tool for error correction, and one strip of ferrules 0.75 mm^2, packed in a robust case.

CF CRIMPHANDY 1,0 - Electrical crimping tool

1212465

https://www.phoenixcontact.com/us/products/1212465

Mobile handheld device, battery-powered, for processing on-tape ferrules 1.0 mm^2 with functional end, suitable for PVC insulated conductors (H05V-K), incl. battery, charger, CUTFOX 12 cable cutter, waste guide plate 2, service tool for error correction, and one strip of ferrules 1.0 mm^2, packed in a robust case.

HC-B16-I-PT-CI-M - Contact insert

1350015

https://www.phoenixcontact.com/us/products/1350015

CF CRIMPHANDY 1,5 - Electrical crimping tool

1212466

https://www.phoenixcontact.com/us/products/1212466

Mobile handheld device, battery-powered, for processing on-tape ferrules 1.5 mm^2 with functional end, suitable for PVC insulated conductors (H07V-K), incl. battery, charger, CUTFOX 12 cable cutter, waste guide plate 2, service tool for error correction, and one strip of ferrules 1.5 mm^2, packed in a robust case.

HC-B16-I-PT-CI-F - Contact insert

1350013

https://www.phoenixcontact.com/us/products/1350013

Contact insert, number of positions: 16+2+PE, size: B16, number of connections per position: 1, Socket, Push-in connection, 500 V, 16 A, 0.14 mm^2 ... 2.5 mm^2, application: Power, tool-free Click-in mounting

HC-B16-I-PT-CI-M - Contact insert

1350015

https://www.phoenixcontact.com/us/products/1350015

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