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

1350013

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

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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

## 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 | 1350013 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | BF61 |
| Product key | AF7ABC |
| GTIN | 4063151667368 |
| Weight per piece (including packing) | 88 g |
| Weight per piece (excluding packing) | 88 g |
| Customs tariff number | 85366990 |
| Country of origin | CN |

## 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 |

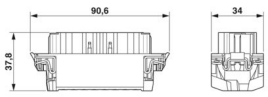
### Product properties

| | |
|---|---|
| Product type | Contact insert with a fixed no. of positions |
| Series | HC-B |
| Application | Power |
| Type | B16 |
| Number of positions | 16 |
| Connection profile | 16+2 PE |
| Contact numbering | 1 - 16 |
| 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 | 37 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) |
| 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/Sn (tarnish protection) |
| Contact carrier material | PC |

## Environmental and real-life conditions

Ambient conditions

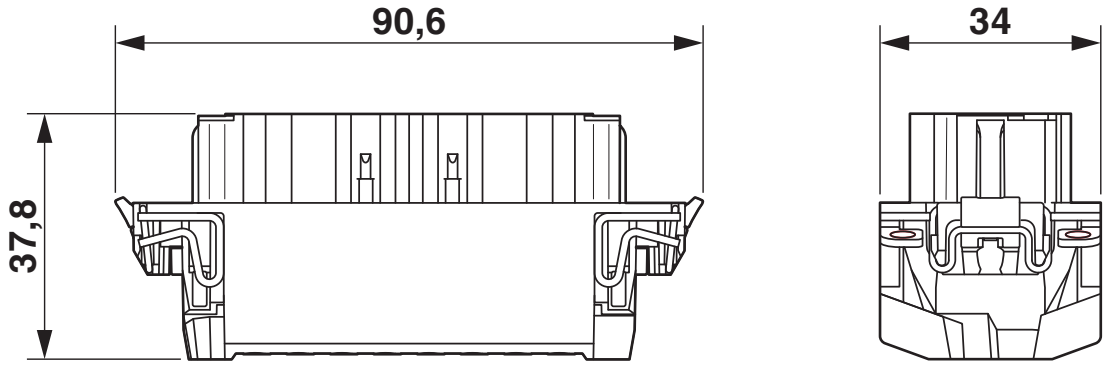
| | |
|---|---|
| Ambient temperature (operation) | -40 °C ... 125 °C (including heating up of contacts) |

## Standards and regulations

| | |
|---|---|
| Standards/regulations | PC: Fire protection in rail vehicles - requirement sets R22, R23, and R24 acc. to DIN EN 45545-2 (Risk level HL1 - HL3) |

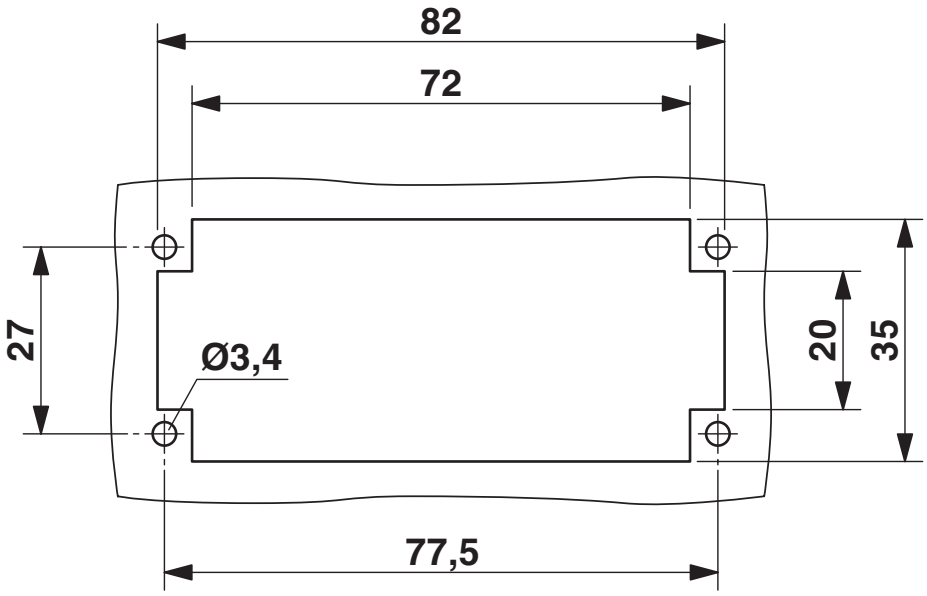
## Drawings

Dimensional drawing



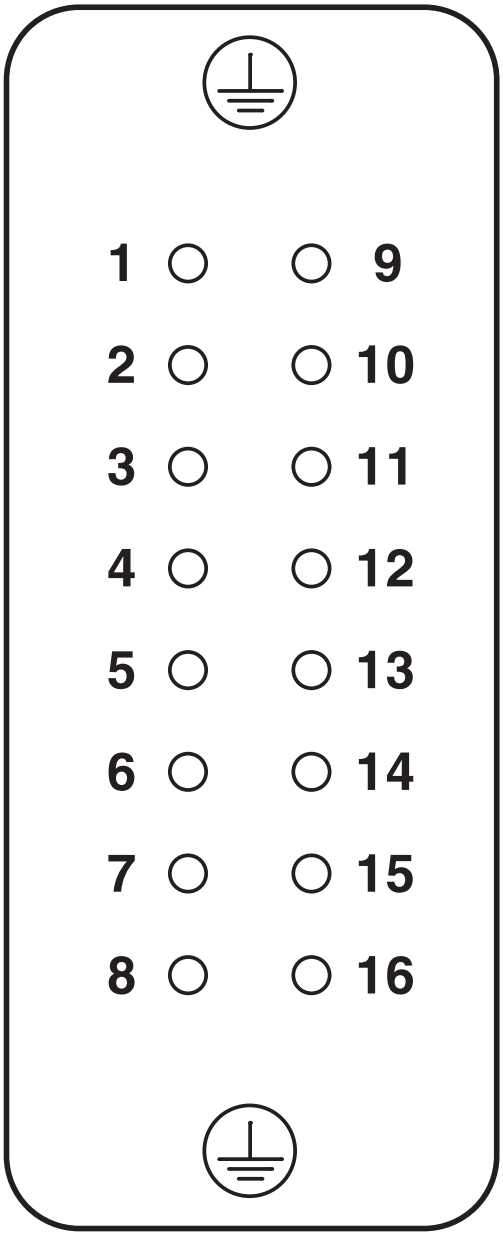

Dimensional drawing

Dimensional drawing



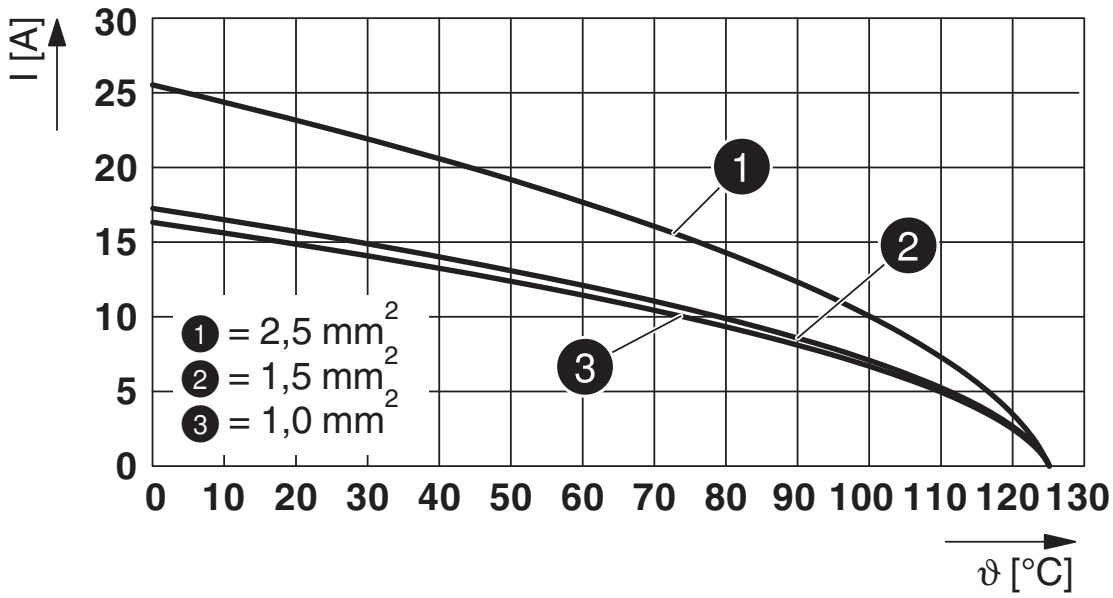

Mounting cutout when used without housing

Schematic diagram




Connector pin assignment, connection side

Diagram




Derating diagram

## Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1350013

**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 - 12 | - |

## Classifications

### ECLASS

| | |
|---|---|
| ECLASS-15.0 | 27440205 |
| ECLASS-13.0 | 27440205 |

### ETIM

| | |
|---|---|
| ETIM 10.0 | EC000438 |

### UNSPSC

| | |
|---|---|
| UNSPSC 21.0 | 39121500 |

## 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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