

# HC-B10-I-TPT-F - Contact insert



1423018

<https://www.phoenixcontact.com/us/products/1423018>

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Contact insert, number of positions: 10+PE, size: B10, number of connections per position: 2, Socket, Push-in connection, 500 V, 16 A, 0.25 mm<sup>2</sup> ... 1.5 mm<sup>2</sup>, application: Power

## Your advantages

- Easy installation without tools, even when mounted, with push-in connection technology
- Shortest installation time compared to other connection technologies
- Quick and effortless wiring, in particular when space is tight
- Automatic cabling with robots possible
- Safe wiring and operation with color-coded actuators
- Shock and vibration-resistant in accordance with DIN EN 61373
- Cost-effective and fast coding with plastic profiles
- Double conductor connection per pos.

## Commercial data

|                                      |                     |
|--------------------------------------|---------------------|
| Item number                          | 1423018             |
| Packing unit                         | 1 pc                |
| Minimum order quantity               | 1 pc                |
| Sales key                            | BF61                |
| Product key                          | BF7ABC              |
| Catalog page                         | Page 543 (C-2-2019) |
| GTIN                                 | 4055626322711       |
| Weight per piece (including packing) | 62.12 g             |
| Weight per piece (excluding packing) | 62.12 g             |
| Customs tariff number                | 85366990            |
| Country of origin                    | CN                  |

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## Technical data

### Notes

|         |   |
|---------|---|
| General | Use only flexible conductors with ferrule (in conjunction with CRIMPFOX 6 only) |
| 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 |
|-----------------------|---|

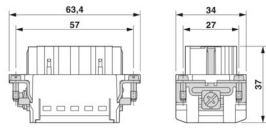
### Product properties

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

### Insulation characteristics

|                      |     |
|----------------------|-----|
| Overvoltage category | III |
| Degree of pollution  | 3   |

### Dimensions

|                                 |  |
|---------------------------------|--|
| Dimensional drawing             |  |
| Width                           | 34 mm  |
| Height                          | 32 mm  |
| Length                          | 64 mm  |
| Drill hole distance, horizontal | 57 mm  |

### Mechanical characteristics

|                  |        |
|------------------|--------|
| Contact diameter | 2.5 mm |
|------------------|--------|

### Connection data

#### Connection technology

|                                    |                    |
|------------------------------------|--------------------|
| Connection technology              | Push-in connection |
| Number of connections per position | 2                  |

#### Conductor connection

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|   |  |
|---|--|
| Conductor cross section                 | 0.25 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>                             |
| Connection cross section AWG            | 24 ... 16  |
| Tightening torque                       | 0.8 Nm ... 1.2 Nm (PE connection)  |
|   | 0.5 Nm ... 0.8 Nm (Mounting screws for mounting in the HEAVYCON housing) |
| Stripping length of the individual wire | 8 mm ±1 mm   |

## Electrical properties

|                       |       |
|-----------------------|-------|
| Rated voltage (III/3) | 500 V |
| Rated surge voltage   | 6 kV  |
| Rated current         | 16 A  |

## 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  |
| 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 |
|---------------------------------|-------------------|

## Standards and regulations

|  |              |
|--|--------------|
| Constructional and testing regulations | DIN EN 61984 |
|  | DIN EN 60664 |
|  | IEC 60352    |
| Tests                                  | DIN EN 61984 |
|  | DIN EN 60664 |
|  | IEC 60352    |

### 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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