

# HC-STA-B10PT-BWD-LT-M25-ELCAL - Connector set



1416346

<https://www.phoenixcontact.com/us/products/1416346>

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Connector set, number of positions: 10, connection method: Push-in connection, connection cross section: AWG 26- 14



## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1416346       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Sales key                            | BF63          |
| Product key                          | AF7AFX        |
| GTIN                                 | 4055626069890 |
| Weight per piece (including packing) | 467 g         |
| Weight per piece (excluding packing) | 467 g         |
| Customs tariff number                | 85366990      |
| Country of origin                    | CN            |

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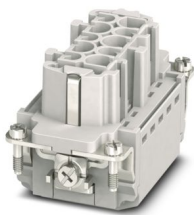
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## Set consists of

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

1407729

<https://www.phoenixcontact.com/us/products/1407729>



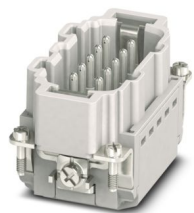
Contact insert, number of positions: 10+PE, size: B10, number of connections per position: 1, Socket, Push-in connection, 500 V, 16 A, 0.14 mm<sup>2</sup> ... 2.5 mm<sup>2</sup>, application: Power

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

1407730

<https://www.phoenixcontact.com/us/products/1407730>



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

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## HC-STA-B10-BWD-ELC-AL - Housing

1411322

<https://www.phoenixcontact.com/us/products/1411322>



HEAVYCON B10 panel mounting base, with double locking latch, with flat gasket, salt-water-resistant aluminum, conductive profile gasket

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## HC-STA-B10-HLFD-1TTM25-EL-AL - Housing

1412621

<https://www.phoenixcontact.com/us/products/1412621>



Sleeve housing B10, for double locking latch, material: Die-cast aluminum, salt water resistant, cable outlets: 1, straight, 1x M25, height: 57 mm, cable gland: none, Standard

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## G-INS-M25-M68N-NNES-S - Cable gland

1411165

<https://www.phoenixcontact.com/us/products/1411165>



Cable gland, material for screw connection: Brass, nickel-plated, application: Standard, external cable diameter 11 mm ... 17 mm, shielding: no, connecting thread: M25 x 1.5, color: silver-colored, with O-ring

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## Technical data

### Product properties

|                      |                  |
|----------------------|------------------|
| Product type         | Connector set    |
| Housing type         | Complete housing |
| Series               | HC-B             |
| Application          | Standard         |
| Type                 | B10              |
| Number of positions  | 10               |
| Connection profile   | 10+PE            |
| No. of cable outlets | 1                |
| Seal present         | yes              |
| Protective cover     | no               |

### Insulation characteristics

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

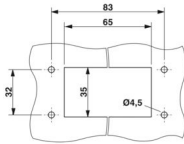
### Electrical properties

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

### Connection data

|                              |                                                                                                                            |
|------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| Connection method            | Push-in connection                                                                                                         |
| Connection technology        | Push-in connection                                                                                                         |
| Conductor cross section      | 0.14 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> (with ferrule)<br>0.14 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> (with ferrule) |
| Connection cross section AWG | 26 ... 14                                                                                                                  |
| Stripping length             | 8 mm ... 10 mm                                                                                                             |

### Dimensions

|                                 |                                                                                      |
|---------------------------------|--------------------------------------------------------------------------------------|
| Dimensional drawing             |  |
| Width                           | 53 mm                                                                                |
| Height                          | 87.5 mm                                                                              |
| Length                          | 93.5 mm                                                                              |
| Drill hole distance, horizontal | 83 mm                                                                                |
| Drill hole distance, vertical   | 32 mm                                                                                |
| Hole diameter                   | 4.5 mm                                                                               |

## Installation dimensions

|                               |       |
|-------------------------------|-------|
| Width of the assembly cutout  | 35 mm |
| Length of the assembly cutout | 65 mm |

## Material specifications

|                                        |                                        |
|----------------------------------------|----------------------------------------|
| Material Housing                       | Die-cast aluminum, saltwater-resistant |
| Flammability rating according to UL 94 | V0                                     |
| Seal material Profile gasket           | NBR                                    |
| Seal material Flat gasket              | NBR                                    |
| Contact material                       | Copper alloy                           |
| Contact surface material               | Ag                                     |
| Contact carrier material               | PC                                     |
| Locking latch material                 | PA                                     |

## Cable/line

|                         |                                |
|-------------------------|--------------------------------|
| External cable diameter | 11 mm ... 17 mm                |
|                         | 14 mm ... 17 mm (for UL 514 B) |

## Mechanical properties

### Mechanical data

|                             |       |
|-----------------------------|-------|
| Locking type                | Latch |
| Insertion/withdrawal cycles | ≥ 500 |

## Environmental and real-life conditions

### Ambient conditions

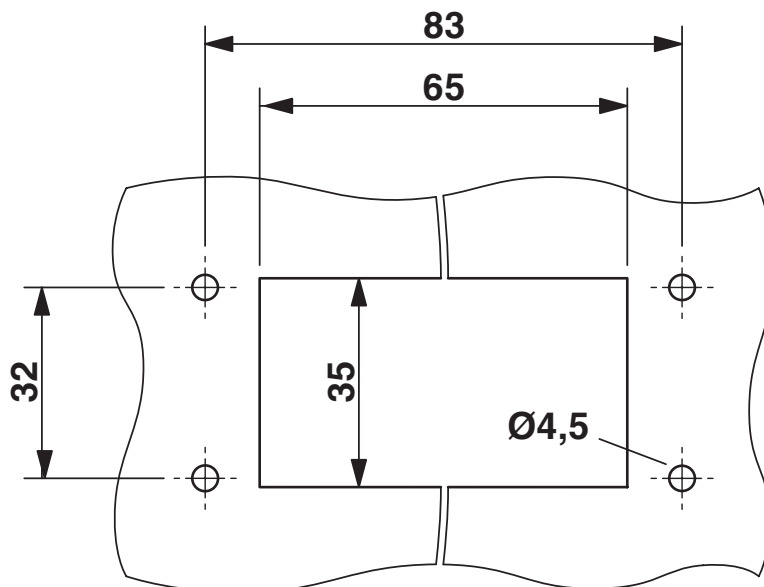
|                                 |                   |
|---------------------------------|-------------------|
| Degree of protection            | IP66              |
|                                 | IP67              |
| Enclosure rating (NEMA)         | 4 (UL 50e)        |
|                                 | 4X (UL 50e)       |
|                                 | 12 (UL 50e)       |
| Impact strength                 | IK09              |
| Ambient temperature (operation) | -40 °C ... 100 °C |

## Mounting

|               |                                                                                                                                               |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| Mounting type | Screw mounting                                                                                                                                |
| Assembly note | Coding also using the CP-HC (1686478) coding profiles. HC-B6.. / HC-B10..for two coding profiles. HC-B16../ HC-B24..for four coding profiles. |
|               | Connectors may only be operated when there is no load/the power is switched off. Can be used for solid wires and stranded wires with ferrule. |

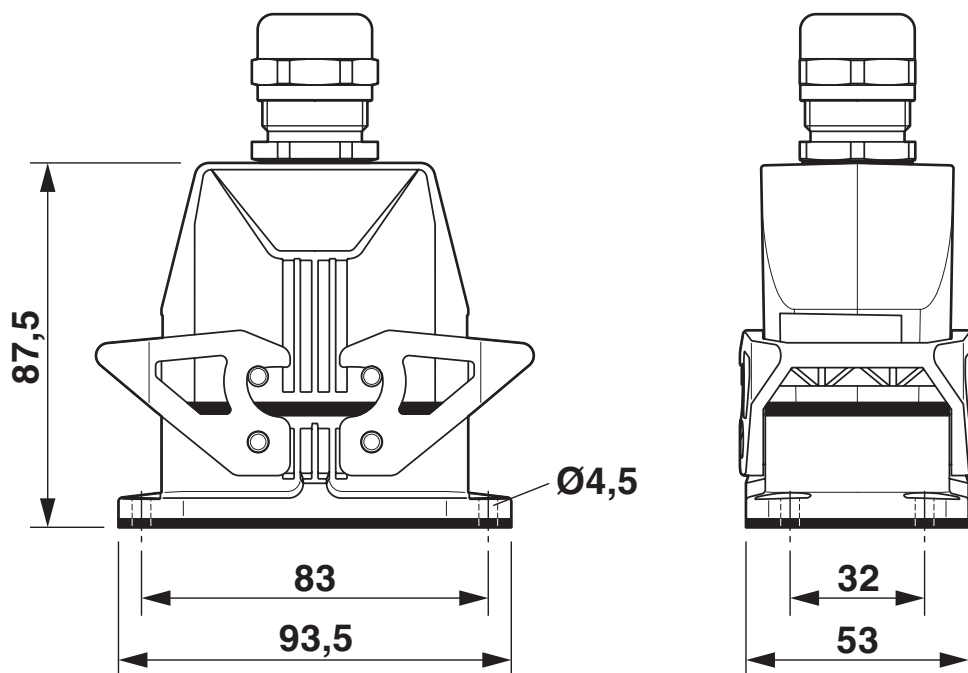
## Drawings

Dimensional drawing



Mounting cutout

Dimensional drawing

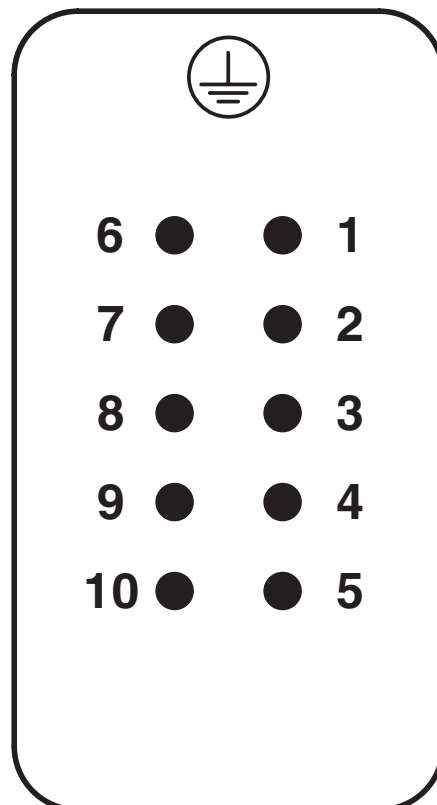


Dimensional drawing

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## Schematic diagram

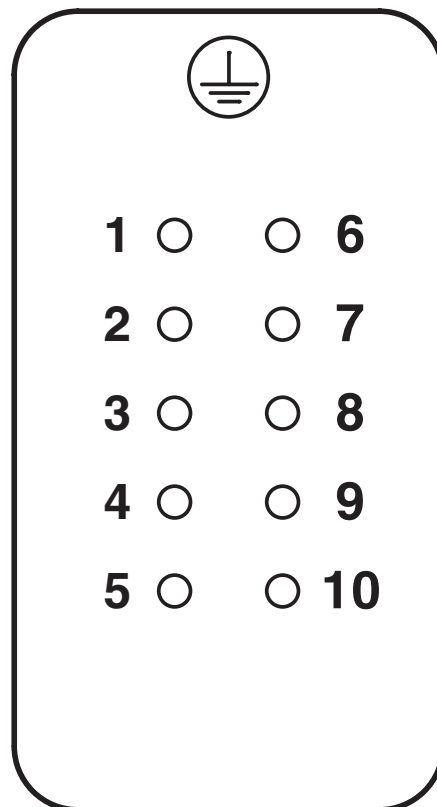


Pin assignment, connection side, pin

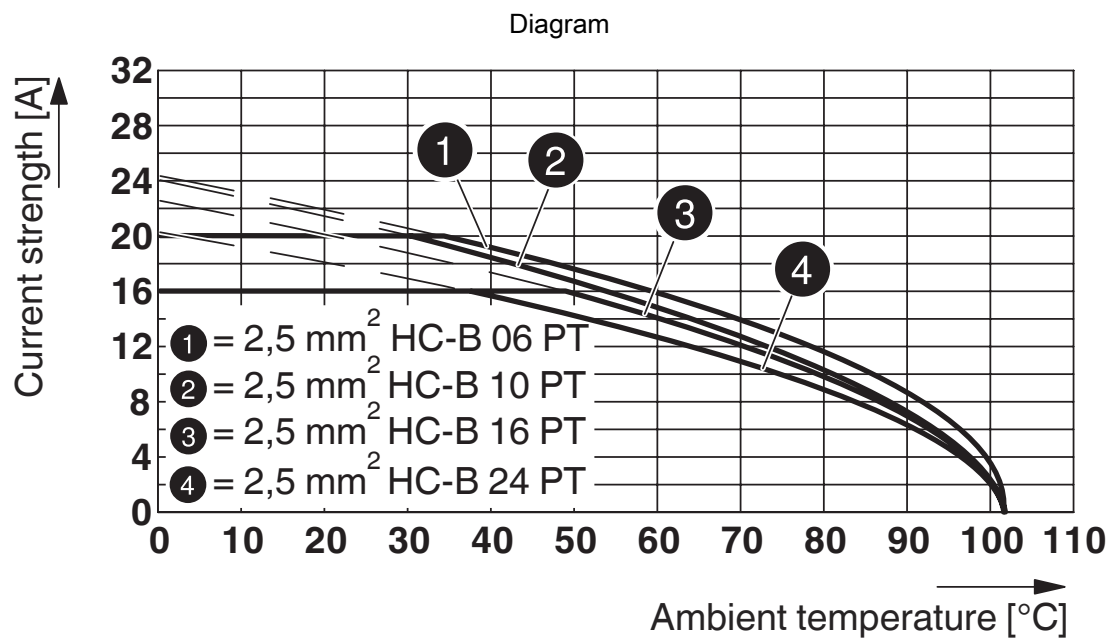
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## Schematic diagram



Pin assignment, connection side, socket



Derating diagram

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## Approvals

 To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1416346>

### DNV

Approval ID: TAE000037S



### EAC

Approval ID: RU C-DE.AI30.B.01102

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27440113 |
| ECLASS-15.0 | 27440113 |

### ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | EC002636 |
|----------|----------|

### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 21.0 | 39121400 |
|-------------|----------|

## Environmental product compliance

### EU RoHS

|                                         |      |
|-----------------------------------------|------|
| Fulfills EU RoHS substance requirements | Yes  |
| Exemption                               | 6(c) |

### China RoHS

|                                        |                                                                                                                                                                                                                                   |
|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Environment friendly use period (EFUP) | EFUP-50                                                                                                                                                                                                                           |
|                                        | An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required. |

### EU REACH SVHC

|                                     |                                     |
|-------------------------------------|-------------------------------------|
| REACH candidate substance (CAS No.) | Lead(CAS: 7439-92-1)                |
| SCIP                                | b8ff6dd-2d42-4fd7-8e6c-f2edf3c0060d |