

# HC-EVO-B10PT-BWSC-HL-M25ELC-AL - Connector set



1411491

<https://www.phoenixcontact.com/us/products/1411491>

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EVO connector set, B10 series, metal housing, consisting of sleeve housing 1411456, panel mounting base 1411321, EVO screw connection 1411446, push-in contact inserts: 1407729, 1407730

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1411491       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Sales key                            | BF63          |
| Product key                          | AF7AFX        |
| GTIN                                 | 4046356932912 |
| Weight per piece (including packing) | 531.4 g       |
| Weight per piece (excluding packing) | 531.4 g       |
| Customs tariff number                | 85366990      |
| Country of origin                    | CN            |

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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

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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-EVO-B10-HLFS-EL-AL - Housing

1411456

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HEAVYCON EVO sleeve housing, EMC version, without powder coating, with bayonet flange for EVO screw connection, B10, for single locking latch, height: 64 mm, without EVO screw connection.

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

1411321

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Panel mounting base B10, with single locking latch, material: Die-cast aluminum, salt water resistant, protective cover material: PC, height: 30.5 mm, cable gland: none, protective cover: yes, Standard, with flat gasket

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## HC-B-G-M25-EC-AL - Cable gland

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EVO EMC cable gland with bayonet locking, B series, size M25, cable diameter:  
11 ... 16 mm



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## Technical data

### Product properties

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

### 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)    |
|                              | 0.14 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> (without ferrule) |
| Connection cross section AWG | 26 ... 14  |
| Tightening torque            | 0.5 Nm ... 1.7 Nm (Fixing screws for panel mounting base)      |
| Stripping length             | 8 mm ... 10 mm   |

### Dimensions

|                                 |         |
|---------------------------------|---------|
| Dimensional drawing             |         |
| Width                           | 53 mm   |
| Height                          | 94.5 mm |
| Length                          | 93.5 mm |
| Drill hole distance, horizontal | 83 mm   |

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|                               |       |
|-------------------------------|-------|
| Drill hole distance, vertical | 32 mm |
|-------------------------------|-------|

## Installation dimensions

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

## Material specifications

|  |  |
|--|--|
| Material Housing                       | Die-cast aluminum, corrosion-resistant |
| Material Protective cover              | PA                                     |
| Flammability rating according to UL 94 | V0                                     |
| Seal material                          | NBR                                    |
|  | NBR                                    |
| Contact material                       | Copper alloy                           |
| Contact surface material               | Ag                                     |
| Contact carrier material               | PA                                     |
| Locking latch material                 | PA                                     |

## Cable/line

|                         |                 |
|-------------------------|-----------------|
| External cable diameter | 11 mm ... 16 mm |
|-------------------------|-----------------|

## Mechanical properties

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

## Environmental and real-life conditions

|                                 |                   |
|---------------------------------|-------------------|
| Ambient conditions              |                   |
| Degree of protection            | IP66              |
|                                 | IP67              |
|                                 | IP66              |
| Enclosure rating (NEMA)         | 4 (UL 50e)        |
|                                 | 4X (UL 50e)       |
|                                 | 12 (UL 50e)       |
| Impact strength                 | IK08              |
| 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.    |

# HC-EVO-B10PT-BWSC-HL-M25ELC-AL - Connector set

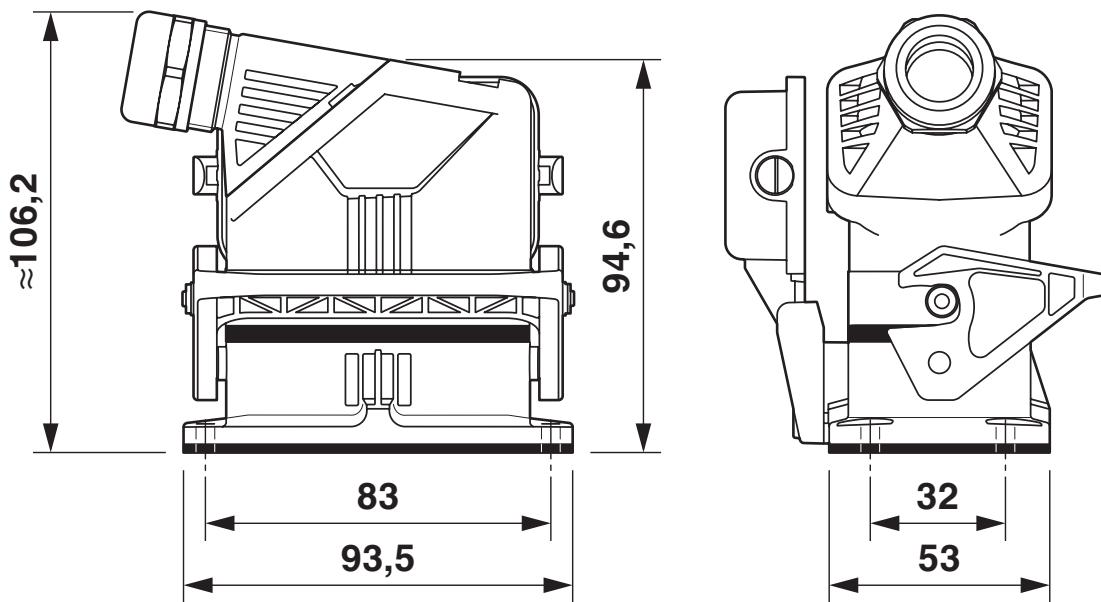


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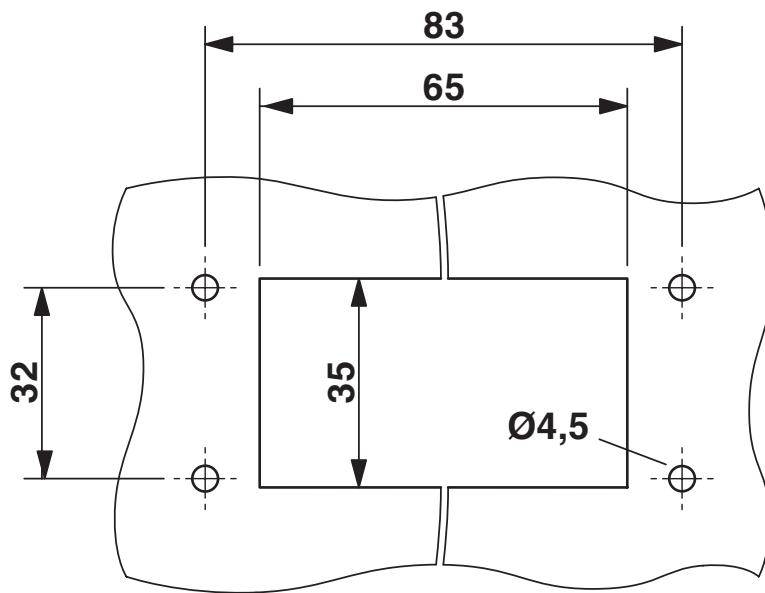
## Drawings

Dimensional drawing



Dimensional drawing

Dimensional drawing



Mounting cutout

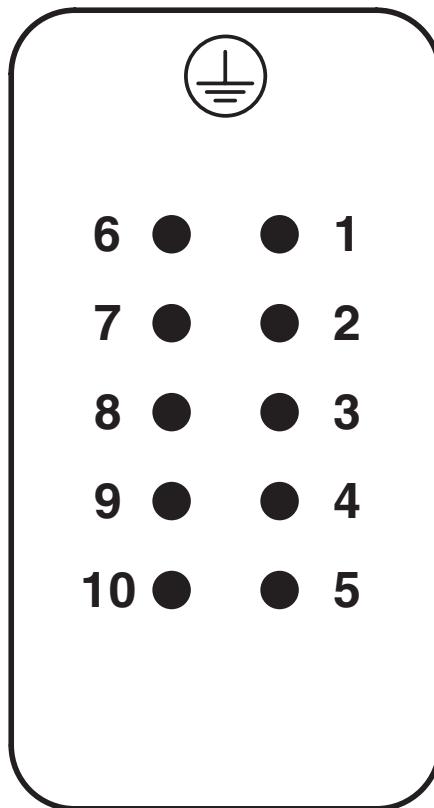
# HC-EVO-B10PT-BWSC-HL-M25ELC-AL - Connector set



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Schematic diagram



Pin assignment, connection side, pin

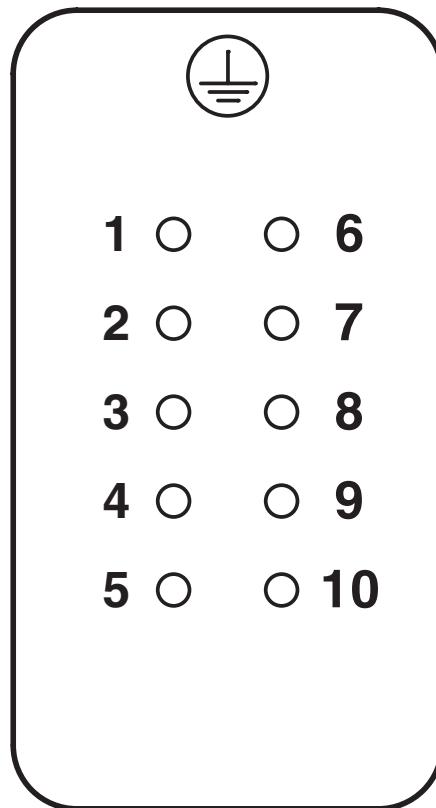
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Schematic diagram



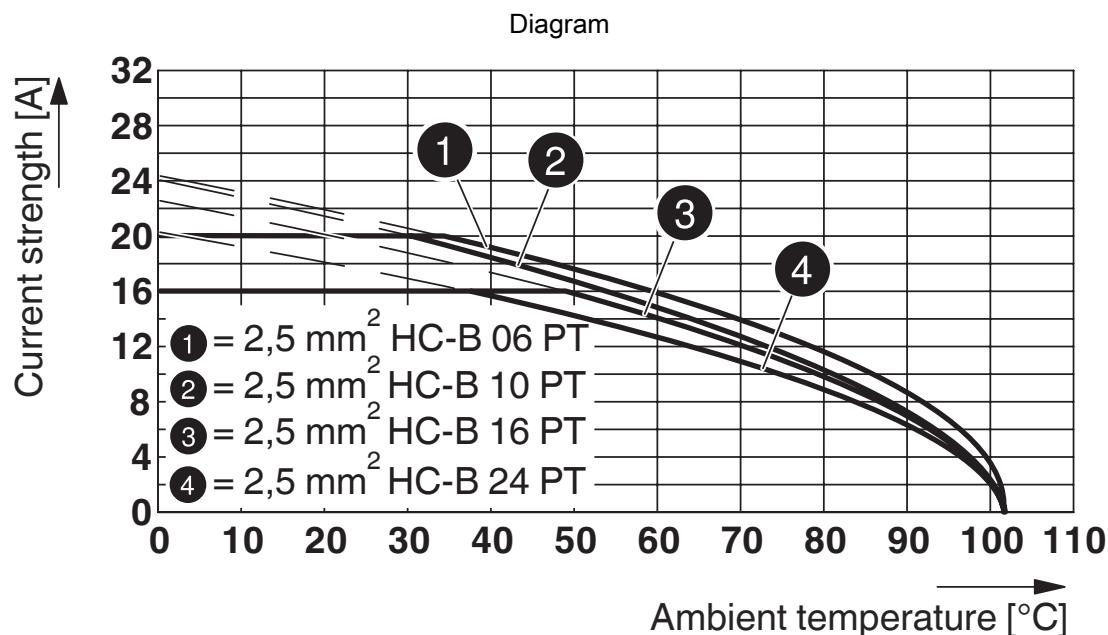
Pin assignment, connection side, socket

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Derating diagram

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## Approvals

ⓘ To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1411491>

**DNV**

Approval ID: TAE000037S



**EAC**

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

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## Classifications

### ECLASS

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

### ETIM

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

### UNSPSC

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

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## Environmental product compliance

### EU RoHS

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

### China RoHS

|  |  |
|--|--|
| Environment friendly use period (EFUP) | EFUP-50<br><br>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                                | 0f9fa3eb-7d0f-46f7-866f-f5388d7d8ef8 |

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