# HC-EVO-B16PT-BWD-HH-M25ELC-AL - Connector set

1411489

https://www.phoenixcontact.com/gb/products/1411489

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EVO connector set, B16 series, metal housing, consisting of: sleeve housing 1411460, panel mounting base 1411327, EVO screw connection 1411446, pin contact insert 1407732, socket contact insert 1407731

## Commercial data

| | |
|---|---|
| Item number | 1411489 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | AF7AFX |
| Product key | AF7AFX |
| GTIN | 4046356932899 |
| Weight per piece (including packing) | 629.3 g |
| Weight per piece (excluding packing) | 622.5 g |
| Customs tariff number | 85366990 |
| Country of origin | CN |

# HC-EVO-B16PT-BWD-HH-M25ELC-AL - Connector set

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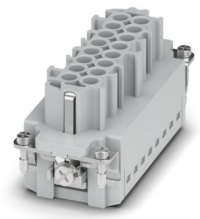
## Set consists of

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

1407731

https://www.phoenixcontact.com/gb/products/1407731

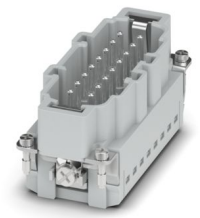


Contact insert, number of positions: 16+PE, size: B16, number of connections per position: 1, Socket, Push-in connection, 500 V, 16 A, 0.14 $mm^2$ ... 2.5 $mm^2$, application: Power

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

1407732

https://www.phoenixcontact.com/gb/products/1407732



Contact insert, number of positions: 16+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

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

1411446

https://www.phoenixcontact.com/gb/products/1411446



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

## HC-STA-B16-BWD-ELC-AL - Housing

1411327

https://www.phoenixcontact.com/gb/products/1411327



HEAVYCON B16 panel mounting base, with double locking latch, with flat gasket, salt-water-resistant aluminum, conductive profile gasket

## HC-EVO-B16-HHFD-EL-AL - Housing

1411460

https://www.phoenixcontact.com/gb/products/1411460



HEAVYCON EVO sleeve housing, EMC version, without powder coating, with bayonet flange for EVO screw connection, B16, for double locking latch, height: 88 mm, without EVO screw connection.

## Technical data

### Product properties

| | |
|---|---|
| Product type | Connector set |
| Housing type | Complete housing |
| Series | HC-B |
| Type | B16 |
| Number of positions | 16 |
| Connection profile | 16+PE |
| Contact numbering | 1 - 16 |
| No. of cable outlets | 1 |
| Seal present | yes |
| Protective cover | no |
| Cable outlet | straight |

Insulation characteristics

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

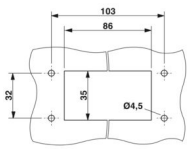
### Electrical properties

| | |
|---|---|
| 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 |
| Connection in acc. with standard | IEC / EN |
| Conductor cross-section | 0.14 mm² ... 2.5 mm² (with ferrule) |
| | 0.14 mm² ... 2.5 mm² (with ferrule) |
| Connection cross section AWG | 26 ... 14 |
| 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 | 8 mm ... 10 mm |

### Dimensions

| | |
|---|---|
| Dimensional drawing |  |
| Width | 53 mm |
| Height | 118.5 mm |

| | |
|---|---|
| Length | 93.5 mm |
| Drill hole distance, horizontal | 83 mm |
| Drill hole distance, vertical | 32 mm |

Installation dimensions

| | |
|---|---|
| Width of the assembly cutout | 35 mm |
| Length of the assembly cutout | 86 mm |

## Material specifications

| | |
|---|---|
| Material Housing | Die-cast aluminum, corrosion-resistant |
| Material Protective cover | PA |
| Flammability rating according to UL 94 | V0 |
| Seal material | NBR (profile gasket) |
| | NBR (Flat gasket) |
| 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 | IK09 |
| Ambient temperature (operation) | -40 °C ... 100 °C |

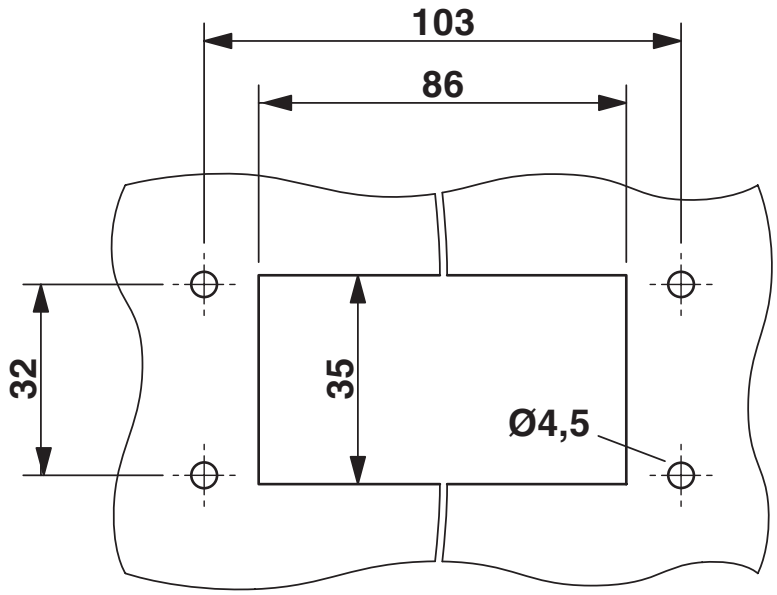
## Mounting

| | |
|---|---|
| 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. |

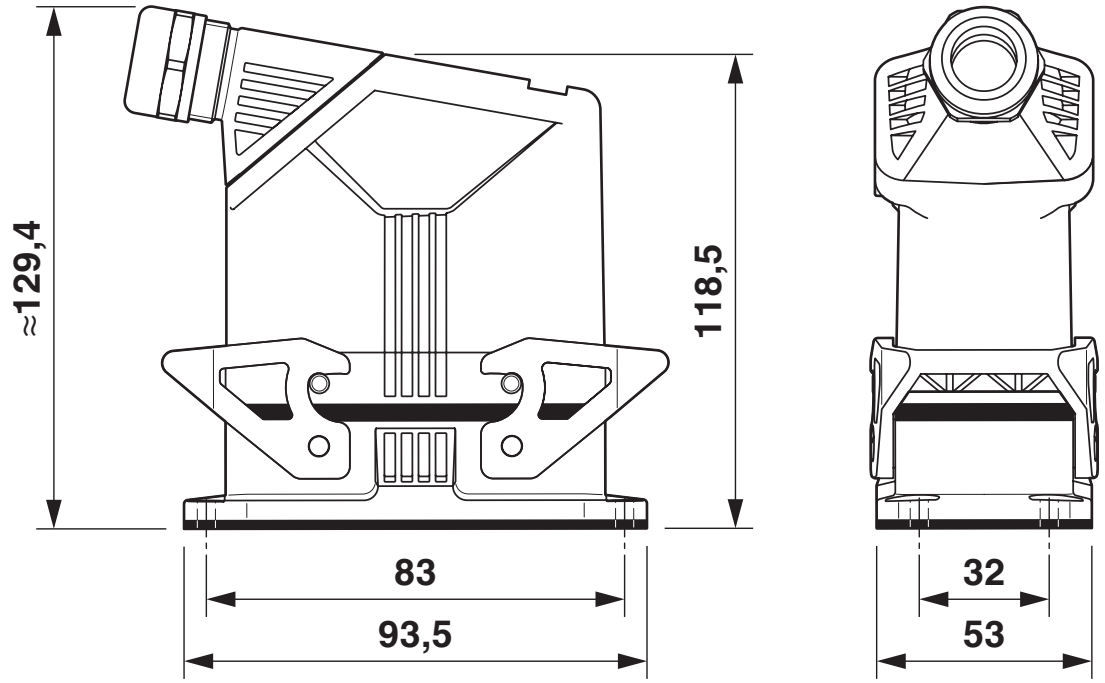
## Drawings

Dimensional drawing



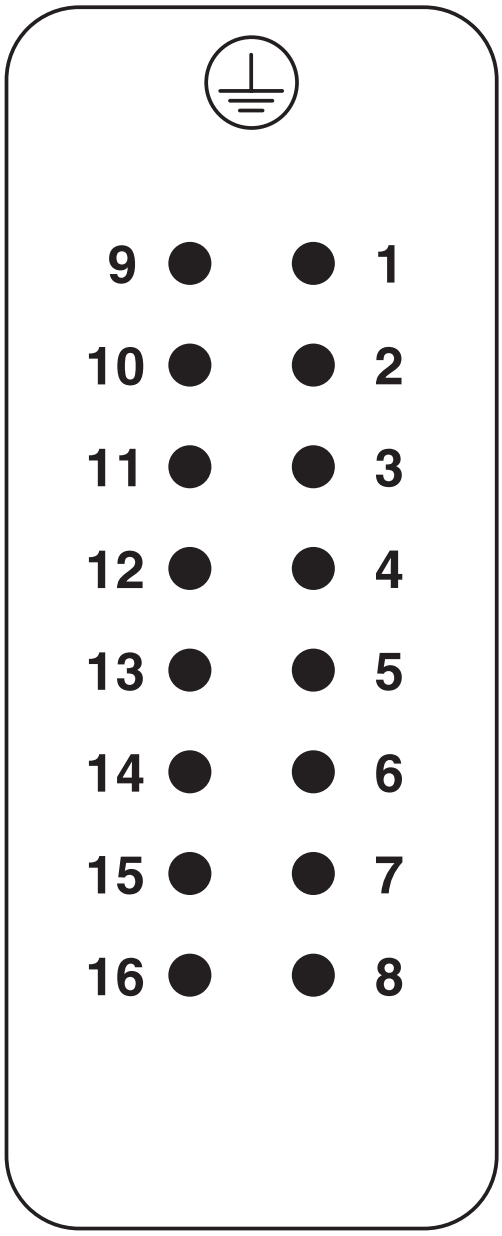

Mounting cutout

Dimensional drawing



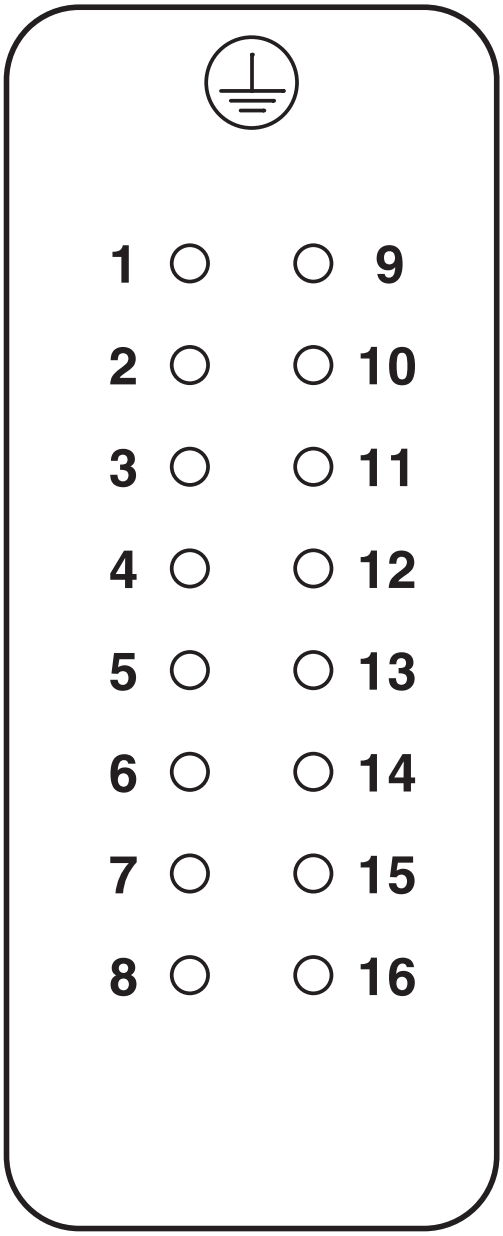

Dimensional drawing

Schematic diagram



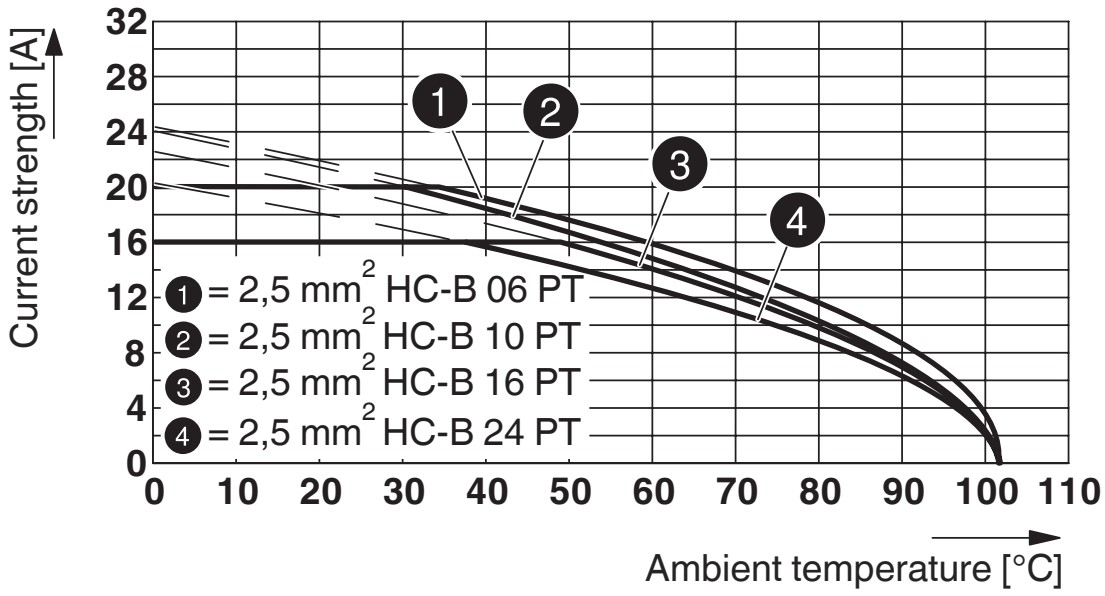

Pin assignment, connection side, pin

Schematic diagram




Pin assignment, connection side, socket

Diagram




Derating diagram

## Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/gb/products/1411489

**DNV**
Approval ID: TAE000037S

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

## Classifications

### ECLASS

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

### ETIM

| | |
|---|---|
| ETIM 10.0 | EC002636 |

### UNSPSC

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

## 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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