

# HC-EVO-B24PT-BWD-HH-M32-PLRBK - Connector set



1407713

<https://www.phoenixcontact.com/us/products/1407713>

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EVO connector set, consisting of sleeve housing, panel mounting base, push-in contact inserts:  
1407735, 1407736, 1407661, 1407657, 1407671

## Your advantages

- Lower costs than metal version
- Labeling option using 9 x 20 mm marking label
- Low weight
- Lower risk of condensation

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1407713       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Sales key                            | BF63          |
| Product key                          | AF7AFX        |
| GTIN                                 | 4046356777780 |
| Weight per piece (including packing) | 570 g         |
| Weight per piece (excluding packing) | 570 g         |
| Customs tariff number                | 85366990      |
| Country of origin                    | CN            |

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## Set consists of

### HC-B24-I-PT-F - Contact insert

1407735

<https://www.phoenixcontact.com/us/products/1407735>



Contact insert, number of positions: 24+PE, size: B24, 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-B24-I-PT-M - Contact insert

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Contact insert, number of positions: 24+PE, size: B24, 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-B24-BWD-PLRBK - Housing

1407661

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HEAVYCON EVO panel mounting base, plastic, B24, with double locking latch, height: 30.5 mm, with flat gasket

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## HC-EVO-B24-HHFD-PLBK - Housing

1407657

<https://www.phoenixcontact.com/us/products/1407657>



HEAVYCON EVO sleeve housing, plastic, with bayonet flange for EVO screw connection, B24, for double locking latch, height: 87.5 mm, without EVO screw connection

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## HC-B-G-M32-PLRBK - Cable gland

1407671

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EVO plastic cable gland with bayonet locking, for housing series B, size M32, cable diameter: 11 mm ... 21 mm

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## Technical data

### Product properties

|                              |                  |
|------------------------------|------------------|
| Product type                 | Connector set    |
| Housing type                 | Complete housing |
| Series                       | HC-B             |
| Type                         | B24              |
| Number of positions          | 24               |
| Connection profile           | 24+PE            |
| Contact numbering            | 1 - 24           |
| No. of cable outlets         | 1                |
| Type of the screw connection | 1x M32           |
| Protective cover             | no               |
| Cable outlet                 | straight         |
| Pg screw connection          | none             |

### Insulation characteristics

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

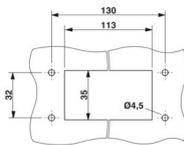
### Electrical properties

|                       |       |
|-----------------------|-------|
| 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 (with ferrule)   |
| 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                          | 130 mm   |
| Length                          | 140.5 mm   |
| Drill hole distance, horizontal | 129.5 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 | 113 mm |

## Material specifications

|  |              |
|--|--------------|
| Flammability rating according to UL 94 | V0           |
| Seal material Profile gasket           | NBR          |
| Seal material Flat gasket              | NBR          |
| Housing material                       | PA           |
| Contact material                       | Copper alloy |
| Contact surface material               | Ag           |
| Contact carrier material               | PA           |
| Locking latch material                 | PA           |

## Cable/line

|                         |                 |
|-------------------------|-----------------|
| External cable diameter | 11 mm ... 21 mm |
|-------------------------|-----------------|

## Mechanical properties

### Mechanical data

|                              |        |
|------------------------------|--------|
| Type of the screw connection | 1x M32 |
| Locking type                 | Latch  |
| Insertion/withdrawal cycles  | ≥ 500  |

## Environmental and real-life conditions

### Ambient conditions

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

## 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.<br><br>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. |
|---------------|---|

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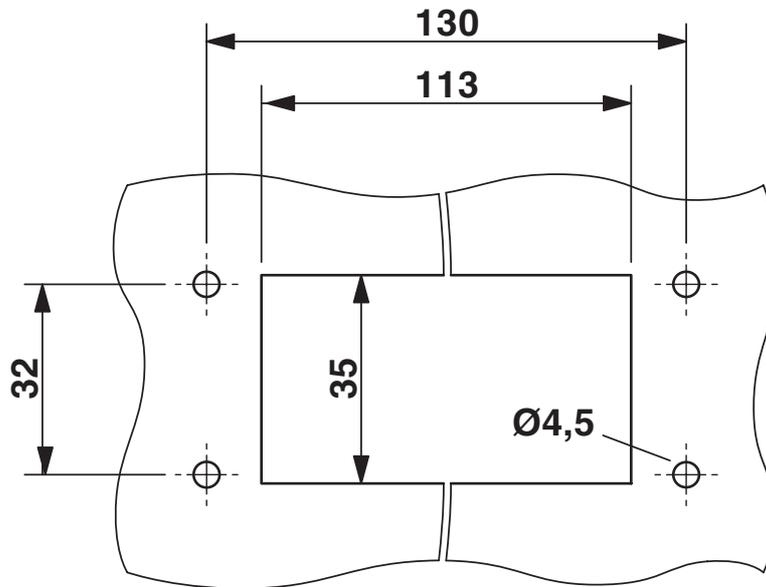


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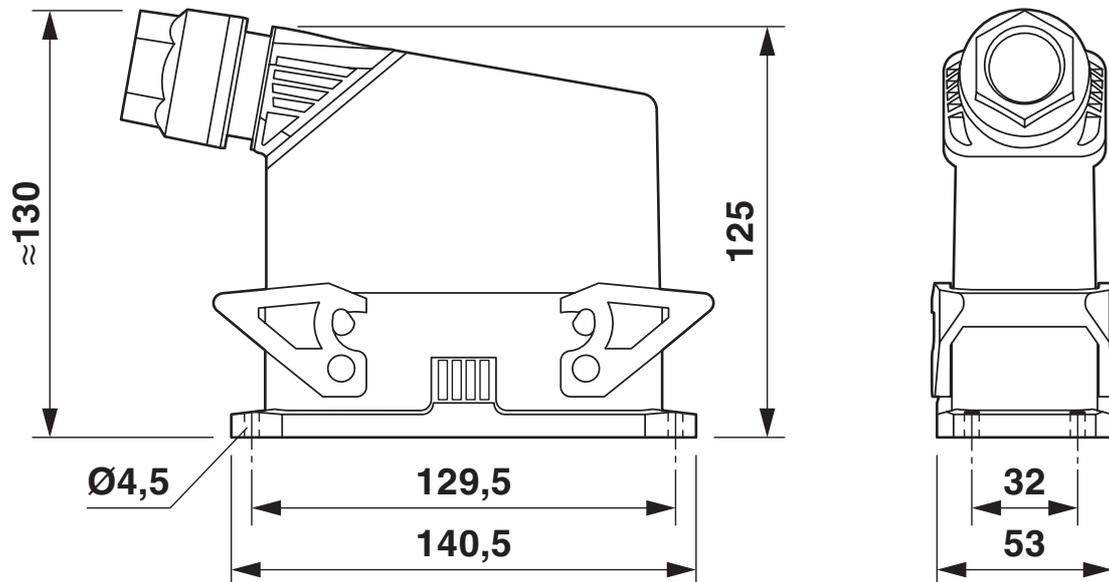
## Drawings

Dimensional drawing



Mounting cutout

Dimensional drawing



Dimensional drawing

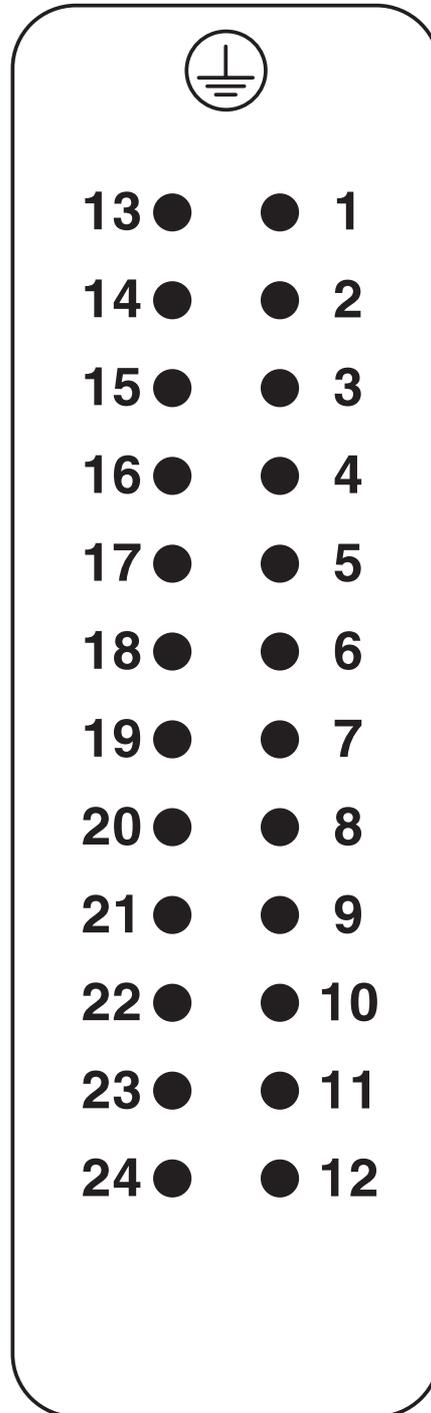
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Schematic diagram



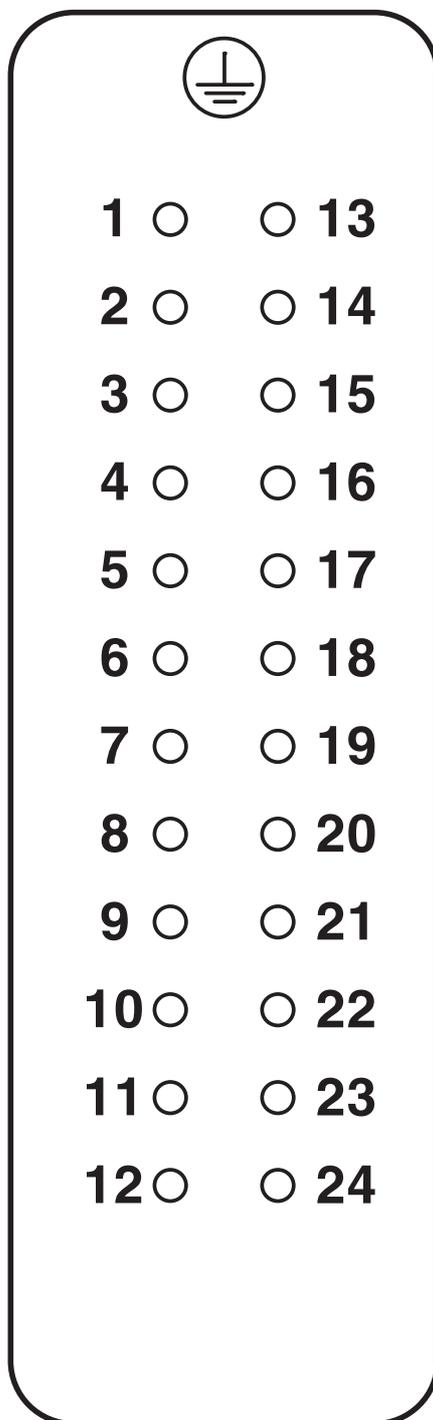
Pin assignment, connection side, pin

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Schematic diagram



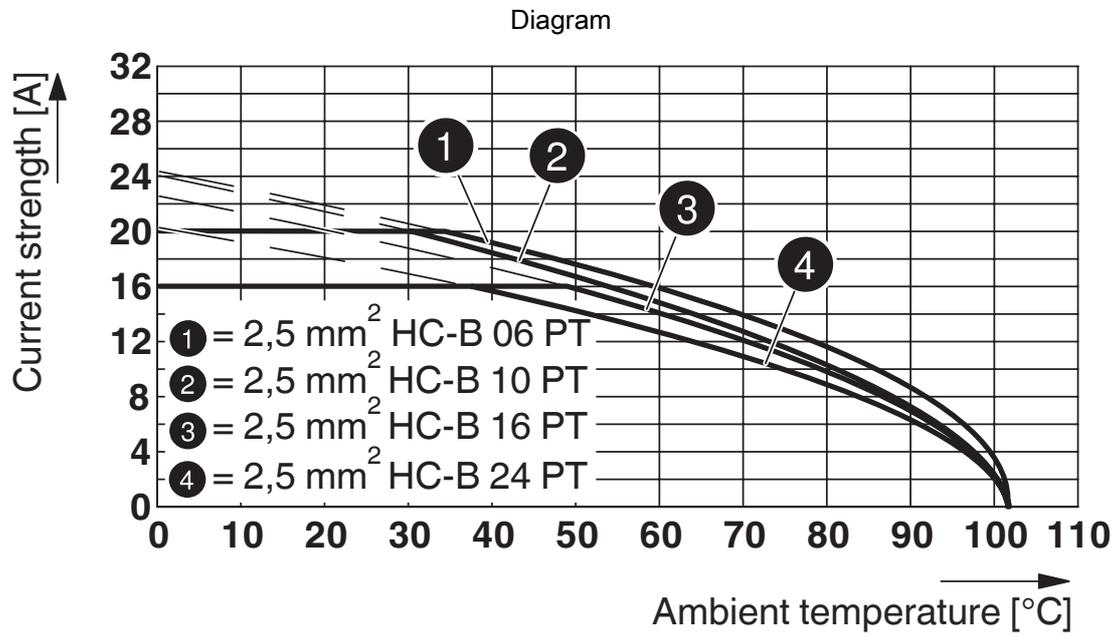
Pin assignment, connection side, socket

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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/1407713>

**DNV**

Approval ID: TAE000037S

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## Classifications

### ECLASS

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