

# HC-STA-B24PT-BWSC-LS-M32-ELCAL - Connector set



1416358

<https://www.phoenixcontact.com/us/products/1416358>

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Connector set, number of positions: 24, connection method: Push-in connection, connection cross section: AWG 26- 14, cable outlet: lateral

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1416358       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Sales key                            | BF63          |
| Product key                          | AF7AFX        |
| GTIN                                 | 4055626071299 |
| Weight per piece (including packing) | 768 g         |
| Weight per piece (excluding packing) | 770.1 g       |
| Customs tariff number                | 85366990      |
| Country of origin                    | CN            |

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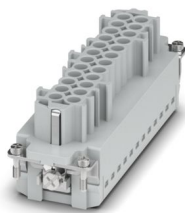
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## Set consists of

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

1407735

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



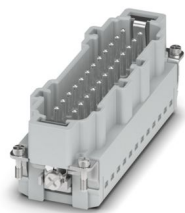
Contact insert, number of positions: 24+PE, size: B24, number of connections per position: 1, Socket, Push-in connection, 500 V, 16 A, 0.14 mm<sup>2</sup> ... 2.5 mm<sup>2</sup>, application: Power

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

1407736

<https://www.phoenixcontact.com/us/products/1407736>



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-STA-B24-BWSC-ELC-AL - Housing

1411330

<https://www.phoenixcontact.com/us/products/1411330>



Panel mounting base B24, 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-STA-B24-HLFS-1STM32-EL-AL - Housing

1412784

<https://www.phoenixcontact.com/us/products/1412784>



Sleeve housing B24, for single locking latch, material: Die-cast aluminum, salt water resistant, cable outlets: 1, lateral, 1x M32, height: 60 mm, cable gland: none, Standard

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## G-INS-M32-M68N-NNES-S - Cable gland

1411166

<https://www.phoenixcontact.com/us/products/1411166>



Cable gland, material for screw connection: Brass, nickel-plated, application: Standard, external cable diameter 15 mm ... 21 mm, shielding: no, connecting thread: M32 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                 | B24              |
| Number of positions  | 24               |
| Connection profile   | 24+PE            |
| No. of cable outlets | 1                |
| Seal present         | yes              |
| Protective cover     | yes              |
| Cable outlet         | lateral          |

### Insulation characteristics

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

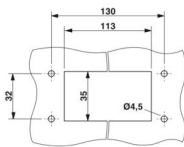
### Electrical properties

|                       |       |
|-----------------------|-------|
| Rated voltage (III/3) | 500 V |
| Rated surge voltage   | 6 kV  |
| Rated current         | 16 A  |
| Nominal voltage $U_N$ | 500 V |
| Nominal current $I_N$ | 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                          | 90.5 mm                                                                              |
| Length                          | 140.5 mm                                                                             |
| Drill hole distance, horizontal | 130 mm                                                                               |

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|                               |        |
|-------------------------------|--------|
| 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 | 113 mm |

## Material specifications

|                                        |                                        |
|----------------------------------------|----------------------------------------|
| Material Housing                       | Die-cast aluminum, saltwater-resistant |
| Material Protective cover              | PA                                     |
| 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 | 15 mm ... 21 mm                |
|                         | 17 mm ... 21 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              |
| 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. |

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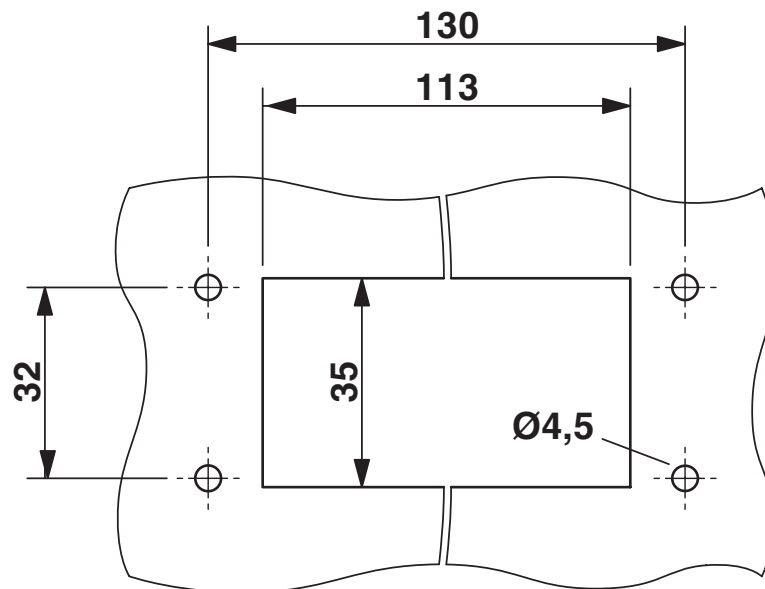


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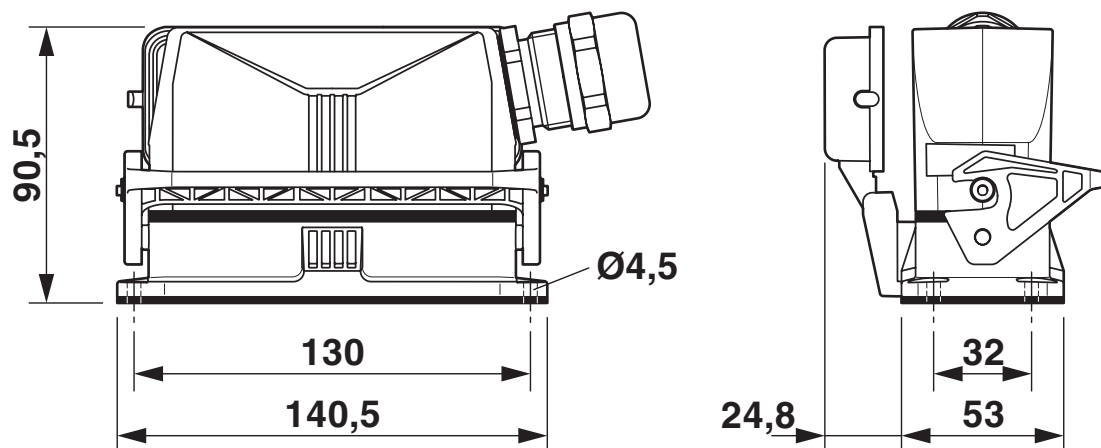
## Drawings

Dimensional drawing



Mounting cutout

Dimensional drawing



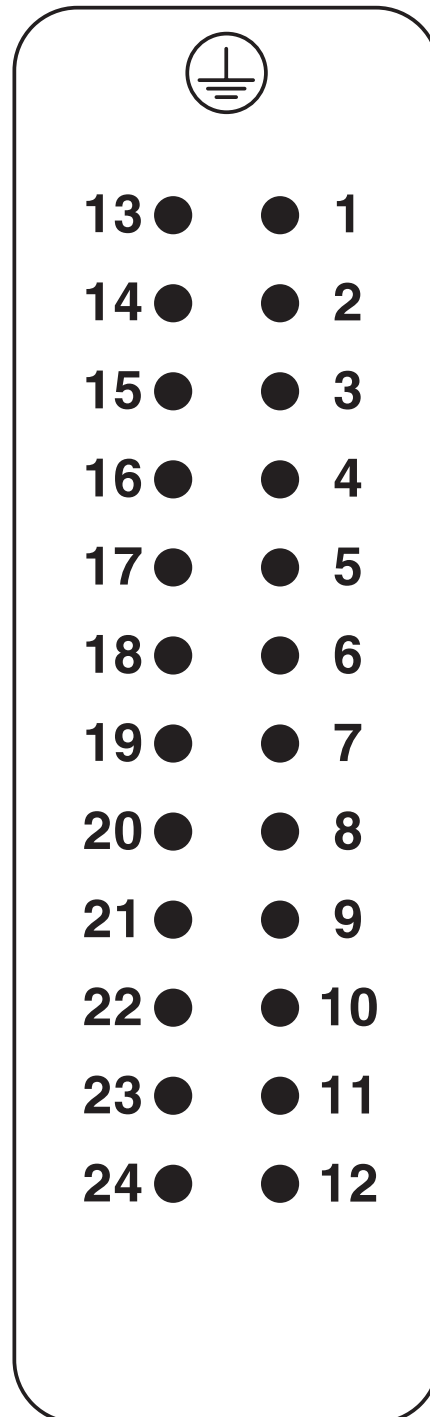
Dimensional drawing

# HC-STA-B24PT-BWSC-LS-M32-ELCAL - Connector set

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Schematic diagram



Pin assignment, connection side, pin

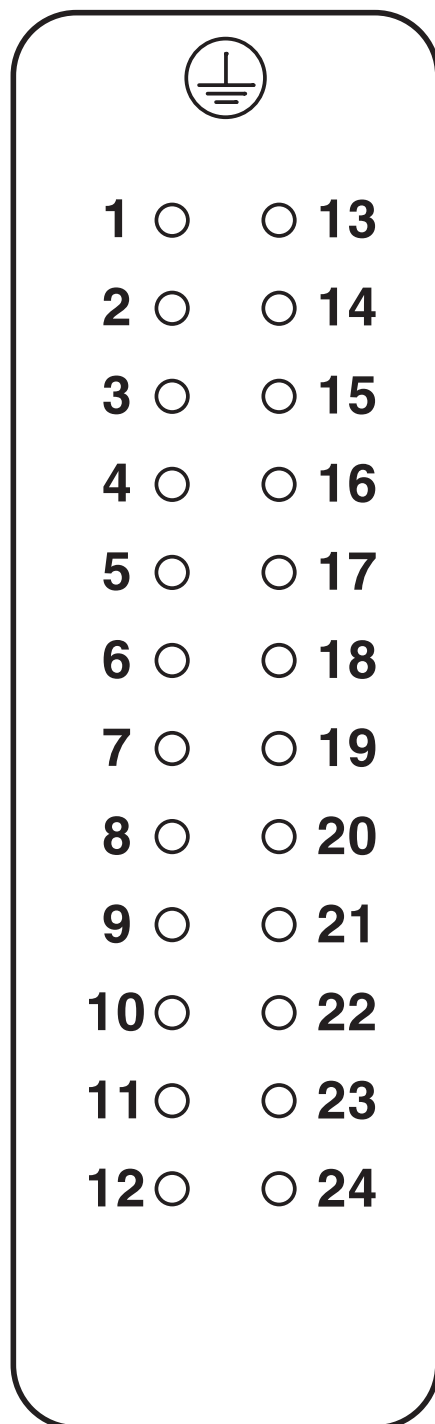
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Schematic diagram



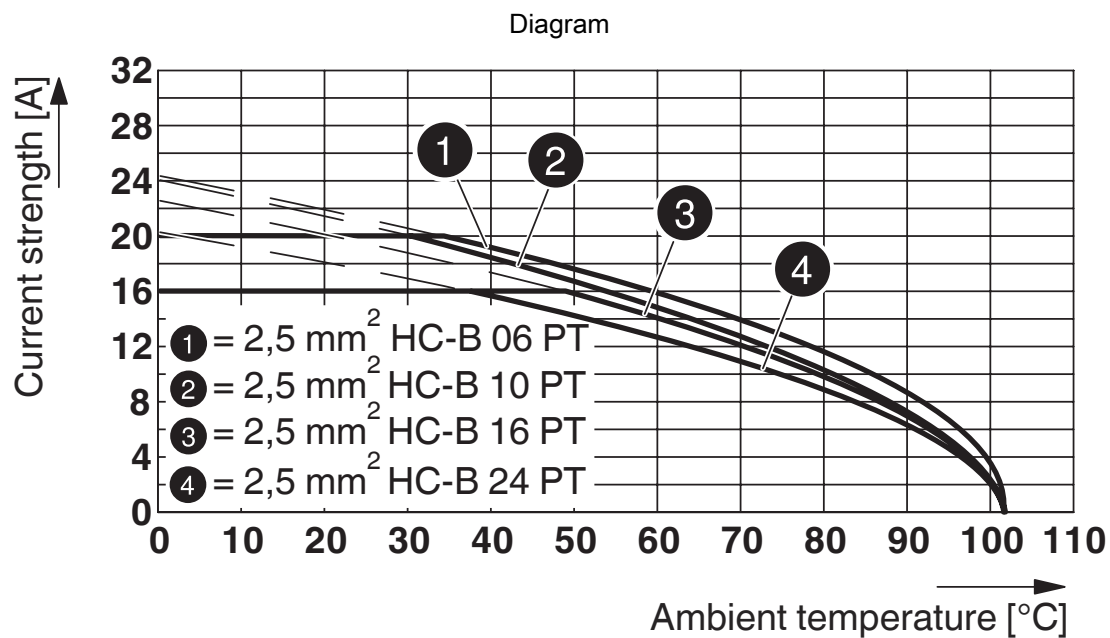
Pin assignment, connection side, socket

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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/1416358>

### 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 10.0 | 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                                                                                                                                                                                                                           |
|                                        | 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                                | 81594faf-ae82-46ce-885d-3a775a199eda |

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