

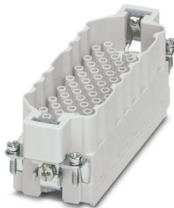
# HC-BBB 64-ESTC - Contact insert

1409901

<https://www.phoenixcontact.com/no/products/1409901>



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Contact insert, number of positions: 64+PE, size: B24, number of connections per position: 1, Pin, Crimp connection, 500 V, 16 A, 0.5 mm<sup>2</sup> ... 4 mm<sup>2</sup>

## Commercial data

|                                      |                     |
|--------------------------------------|---------------------|
| Item number                          | 1409901             |
| Packing unit                         | 1 pc                |
| Minimum order quantity               | 1 pc                |
| Sales key                            | 31BBF               |
| Product key                          | BF7ABK              |
| Catalog page                         | Page 557 (C-2-2019) |
| GTIN                                 | 4046356767217       |
| Weight per piece (including packing) | 73.3 g              |
| Weight per piece (excluding packing) | 73.3 g              |
| Customs tariff number                | 85366990            |
| Country of origin                    | DE                  |

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## Technical data

### Notes

|         |                                                                                                                                       |
|---------|---------------------------------------------------------------------------------------------------------------------------------------|
| General | For HEAVYCON ADVANCE and HEAVYCON housing of B24 type, crimp contacts CK 2,5-ED (crimp contacts not included in the scope of supply). |
| General | Connectors may be operated only when there is no load/voltage.                                                                        |

### Mounting

|                       |                                                                                           |
|-----------------------|-------------------------------------------------------------------------------------------|
| Assembly instructions | To ensure correct use, installation in housing with IP54 protection or better is required |
|-----------------------|-------------------------------------------------------------------------------------------|

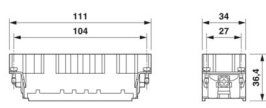
### Product properties

|                                    |                                              |
|------------------------------------|----------------------------------------------|
| Type                               | B24                                          |
|                                    | B48                                          |
| Product type                       | Contact insert with a fixed no. of positions |
| Number of positions                | 64                                           |
| Connection profile                 | 64+PE                                        |
| Contact numbering                  | 1 - 64                                       |
| Number of connections per position | 1                                            |
| Contact material type              | turned                                       |
| Series                             | HC-BBB                                       |

### Insulation characteristics

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

### Dimensions

|                                 |                                                                                      |
|---------------------------------|--------------------------------------------------------------------------------------|
| Dimensional drawing             |  |
| Width                           | 34 mm                                                                                |
| Height                          | 36.4 mm                                                                              |
| Length                          | 111 mm                                                                               |
| Drill hole distance, horizontal | 104 mm                                                                               |
| Drill hole distance, vertical   | 27 mm                                                                                |

### Mechanical characteristics

|                        |        |
|------------------------|--------|
| Minimum housing height | 76 mm  |
| Contact diameter       | 2.5 mm |

### Connection data

|                       |                  |
|-----------------------|------------------|
| Connection technology |                  |
| Connection technology | Crimp connection |

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|                                    |          |
|------------------------------------|----------|
| Number of connections per position | 1        |
| Connection in acc. with standard   | IEC / EN |

## Conductor connection

|                                         |                                                                                                               |
|-----------------------------------------|---------------------------------------------------------------------------------------------------------------|
| Conductor cross section                 | 0.5 mm <sup>2</sup> ... 4 mm <sup>2</sup>                                                                     |
| Connection cross section AWG            | 20 ... 12                                                                                                     |
| Tightening torque                       | 0.8 Nm ... 1.2 Nm (PE connection)<br>0.5 Nm ... 0.8 Nm (Mounting screws for mounting in the HEAVYCON housing) |
| Stripping length of the individual wire | 7.5 mm                                                                                                        |

## Electrical properties

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

## Mechanical properties

### Mechanical data

|                             |       |
|-----------------------------|-------|
| Insertion/withdrawal cycles | ≥ 500 |
|-----------------------------|-------|

## Material specifications

|                                        |                                                                                                                                                                                                                      |
|----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Flammability rating according to UL 94 | V0                                                                                                                                                                                                                   |
| Contact material                       | Copper alloy                                                                                                                                                                                                         |
| Contact surface material               | Ag (alternatively Au)                                                                                                                                                                                                |
| Contact carrier material               | PC                                                                                                                                                                                                                   |
| Standards/regulations                  | PC: Fire protection in rail vehicles - requirement set R22 acc. to DIN EN 45545-2 (Risk level HL1 - HL2)<br>PC: Fire protection in rail vehicles - requirement set R23 acc. to DIN EN 45545-2 (Risk level HL1 - HL3) |

## Environmental and real-life conditions

### Ambient conditions

|                                 |                                                      |
|---------------------------------|------------------------------------------------------|
| Ambient temperature (operation) | -40 °C ... 125 °C (including heating up of contacts) |
|---------------------------------|------------------------------------------------------|

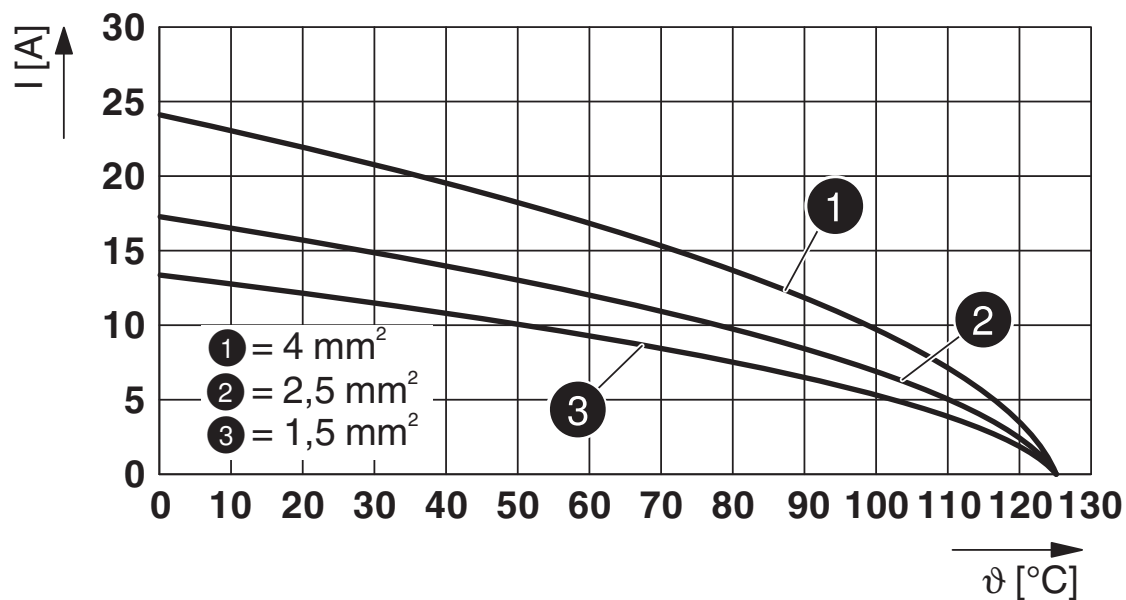
## Standards and regulations

### Testing

|                       |                                                                                                                                                                                                                      |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Standards/regulations | PC: Fire protection in rail vehicles - requirement set R22 acc. to DIN EN 45545-2 (Risk level HL1 - HL2)<br>PC: Fire protection in rail vehicles - requirement set R23 acc. to DIN EN 45545-2 (Risk level HL1 - HL3) |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

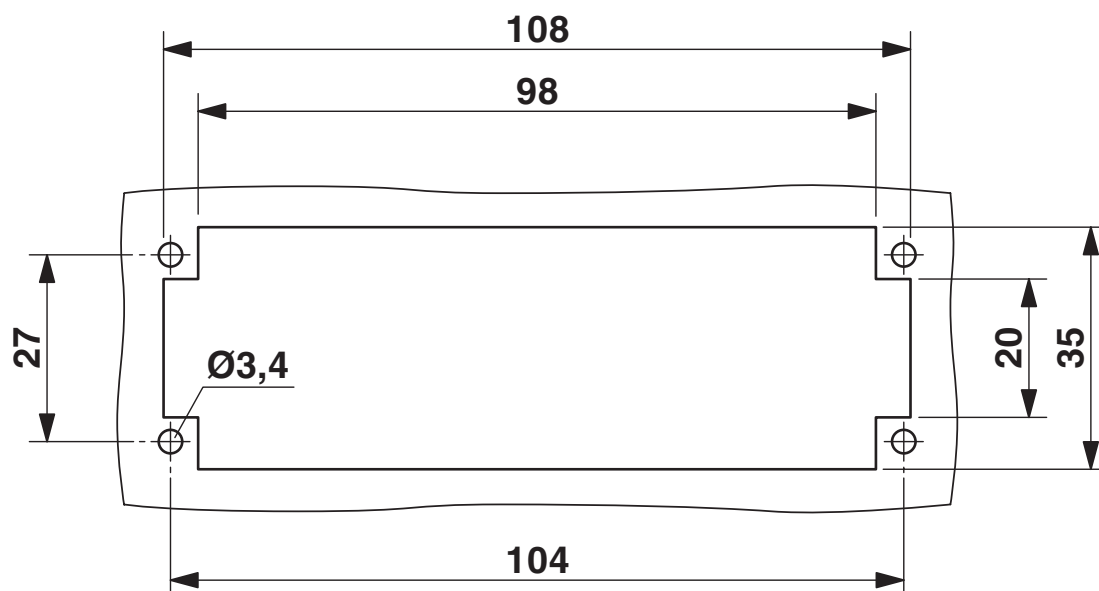
## Drawings

Diagram



Derating diagram

Dimensional drawing



Mounting cutout when used without housing

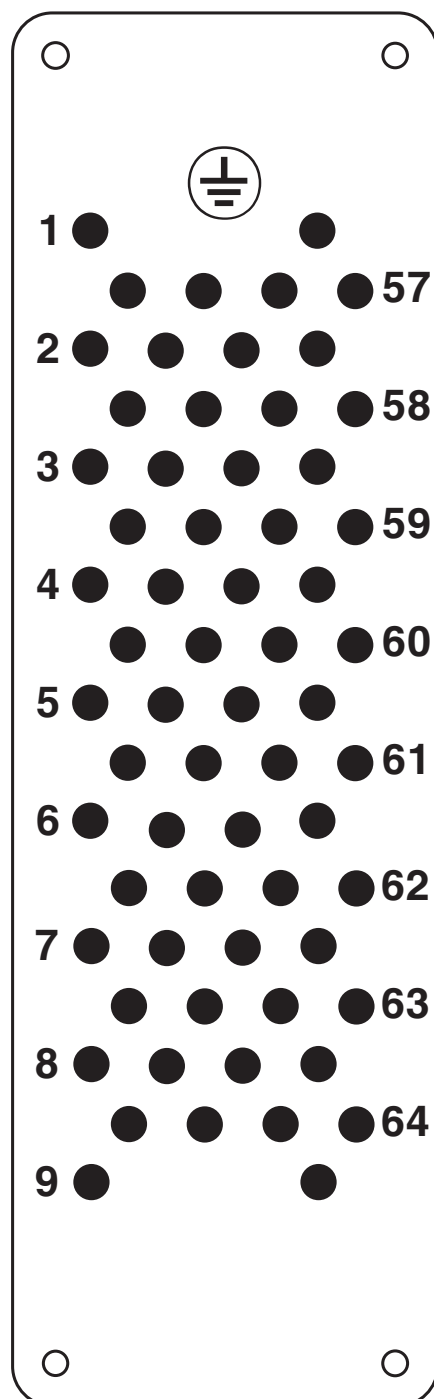
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Schematic diagram



Connector pin assignment, connection side

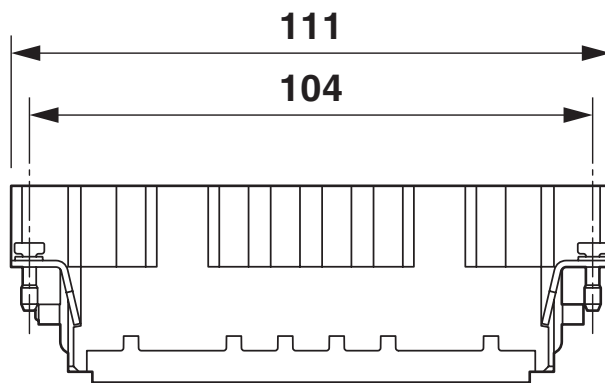
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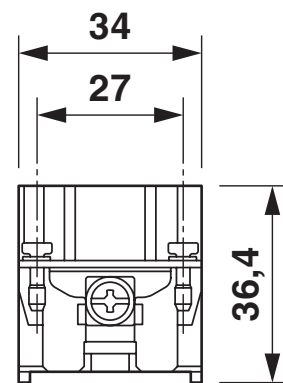
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Dimensional drawing



Dimensional drawing



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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/no/products/1409901>

DNV

Approval ID: TAE000037S

|  |                                                          |                                |                   |                               |
|--|----------------------------------------------------------|--------------------------------|-------------------|-------------------------------|
|  | <div>UL Recognized</div> <div>Approval ID: E118976</div> |                                |                   |                               |
|  | Nominal voltage U <sub>N</sub>                           | Nominal current I <sub>N</sub> | Cross section AWG | Cross section mm <sup>2</sup> |
|  | 600 V                                                    | 16 A                           | - 12              | -                             |

EAC

Approval ID: RU C-DE.BL08.B.00511

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-11.0 | 27440205 |
| ECLASS-12.0 | 27440205 |
| ECLASS-13.0 | 27440205 |

### ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | EC000438 |
|----------|----------|

### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 21.0 | 39121500 |
|-------------|----------|



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## Environmental product compliance

|            |                                                         |
|------------|---------------------------------------------------------|
| China RoHS | Environmentally friendly use period: unlimited = EFUP-e |
|            | No hazardous substances above threshold values          |

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