

## Contact insert - HC-B 16-EBUQ-2,5-32 - 1605598

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HEAVYCON female insert, B16 series, 16-pos., QUICKON-connection, numbering 17 - 32

### Product Description


#### Contact insert

With QUICKON connection technology, the wires are connected with just a turn of the screwdriver. The wires do not have to be stripped first. This reduces connection time by at least 60%.

**RoHS**

COMPLETE RoHS

### Key Commercial Data

|                                      |   |
|--------------------------------------|---|
| Packing unit                         | 1 pc  |
| Minimum order quantity               | 10 pc   |
| GTIN                                 | <br>4 017918 940683 |
| GTIN                                 | 4017918940683   |
| Weight per Piece (excluding packing) | 96.410 g  |
| Custom tariff number                 | 85366990  |
| Country of origin                    | Poland  |

### Technical data

#### General

|                     |   |
|---------------------|---|
| Note                | For HEAVYCON-ADVANCE housing of B16 type and HEAVYCON housing of B16/B32 type. Encoding using coding profile CP-HC (1686478). HC-B6.../ HC-B10... for two coding profiles. HC-B16.../ HC-B24... for four coding profiles. Connectors may only be actuated when there is no load/ voltage. |
|                     | Connectors may be operated only when there is no load/voltage.  |
| Connection method   | QUICKON connection  |
| Degree of pollution | 3   |

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## Technical data

### General

|   |  |
|---|--|
| Overvoltage category  | III  |
| Number of positions   | 16+PE  |
| Insertion/withdrawal cycles   | ≥ 500  |
| Size  | B16  |
| Contact numbering   | 17 - 32  |
| Conductor cross section   | 0.34 mm² ... 2.5 mm² (Litz wire structure VDE 0295, Class 1 - 5/litz wire diameter ≥ 0.2 mm) |
| Connection cross section AWG  | 22 ... 14  |
| Wire diameter including insulation                                    | 1 mm ... 3.5 mm  |
| Frequency of connections between conductors of the same cross section | 10   |
| Assembly instructions   | To ensure correct use, installation in housing with IP54 protection or better is required    |
| Connection  | For housings of type B16/B32. Connectors may only be actuated when there is no load/voltage. |

### Ambient conditions

|                                 |  |
|---------------------------------|--|
| Ambient temperature (operation) | -40 °C ... 125 °C (including heating up of contacts) |
| Ambient temperature (assembly)  | -25 °C ... 50 °C                                     |

### Material data

|                          |   |
|--------------------------|---|
| Contact material         | Copper alloy  |
| Contact surface material | Ag  |
| Contact carrier material | PA  |
| Material wire insulation | PVC / PE  |
| Standards/regulations    | PA: Fire protection in rail vehicles - requirement sets R22 and R23 acc. to DIN EN 45545-2 (Risk level HL1 - HL2) |
|                          | PA: Fire protection in rail vehicles - requirement set R24 acc. to DIN EN 45545-2 (Risk level HL1 - HL3)          |

### Electrical characteristics

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

### Standards and Regulations

|  |     |
|--|-----|
| Connection in acc. with standard       | CSA |
| Flammability rating according to UL 94 | V0  |

### Environmental Product Compliance

|            |  |
|------------|--|
| China RoHS | Environmentally Friendly Use Period = 50 |
|------------|--|

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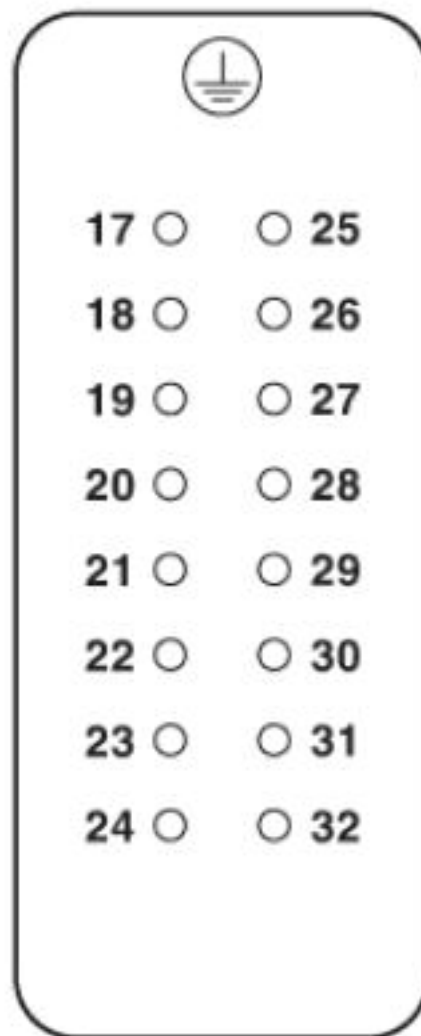
### Technical data

### Environmental Product Compliance

|  |   |
|--|---|
|  | For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration" |
|--|---|

### Drawings

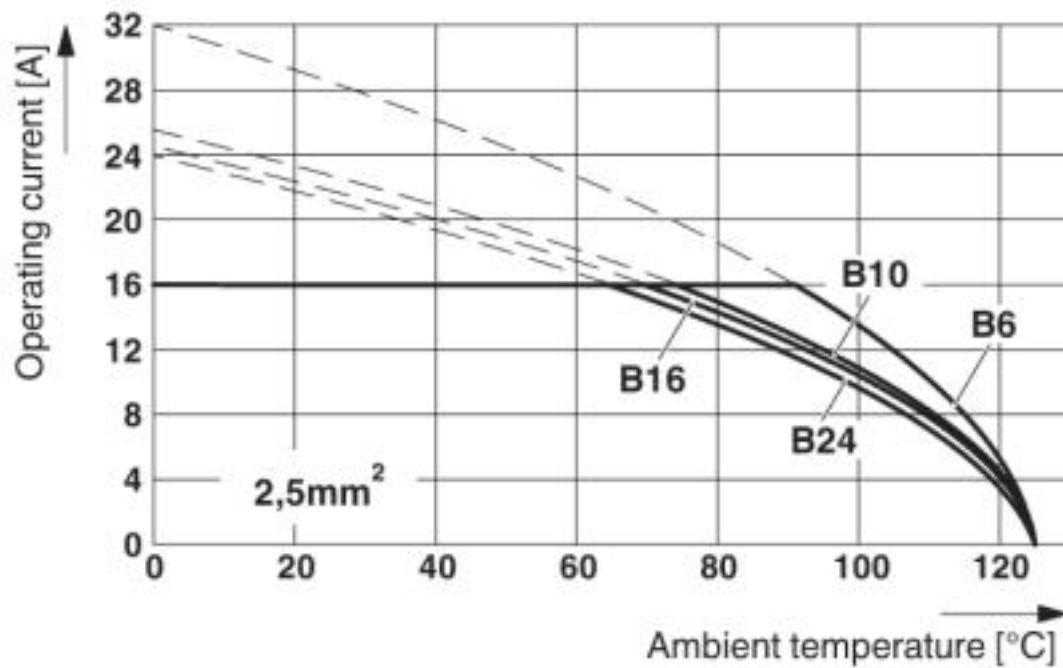
Schematic diagram



Connector pin assignment, connection side

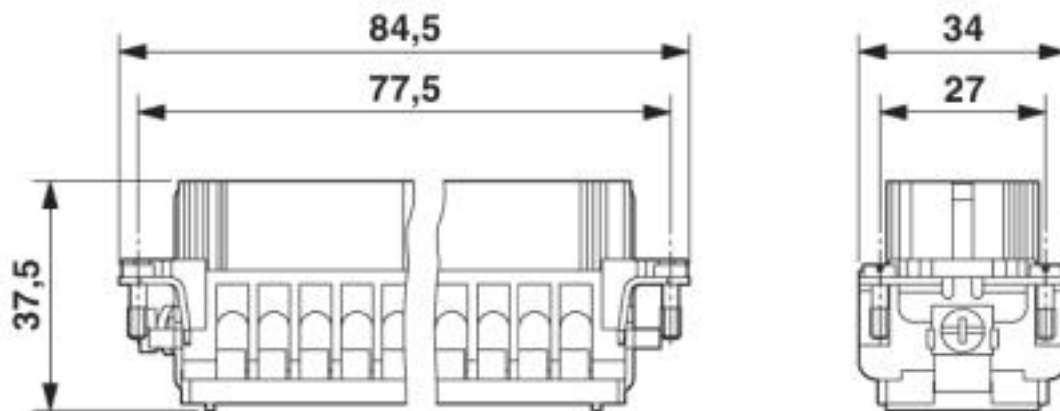
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Diagram



Derating diagram

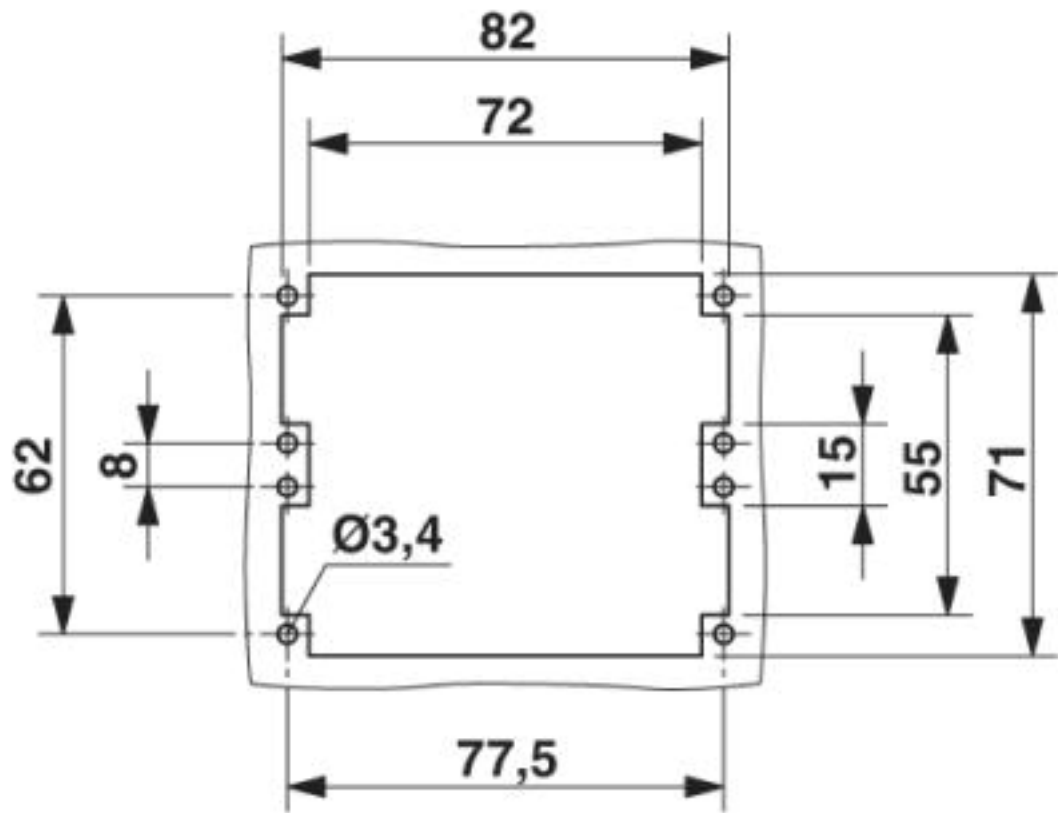
Dimensional drawing



Female insert

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Dimensional drawing



Mounting cutout when used without housing

Classifications

eCl@ss

|            |          |
|------------|----------|
| eCl@ss 4.0 | 27140800 |
| eCl@ss 4.1 | 27140800 |
| eCl@ss 5.0 | 27143400 |
| eCl@ss 5.1 | 27261200 |
| eCl@ss 6.0 | 27261200 |
| eCl@ss 7.0 | 27440205 |
| eCl@ss 8.0 | 27440205 |
| eCl@ss 9.0 | 27440205 |

ETIM

|          |          |
|----------|----------|
| ETIM 2.0 | EC000437 |
| ETIM 3.0 | EC000437 |

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## Classifications

### ETIM

|          |          |
|----------|----------|
| ETIM 4.0 | EC000438 |
| ETIM 5.0 | EC000438 |
| ETIM 6.0 | EC000438 |
| ETIM 7.0 | EC000438 |

### UNSPSC

|               |          |
|---------------|----------|
| UNSPSC 6.01   | 30211923 |
| UNSPSC 7.0901 | 39121522 |
| UNSPSC 11     | 39121522 |
| UNSPSC 12.01  | 39121522 |
| UNSPSC 13.2   | 39121522 |

## Approvals


### Approvals


#### Approvals

CSA / UL Recognized / cUL Recognized / EAC / DNV GL / cULus Recognized

#### Ex Approvals

### Approval details


|     |   |   |                |
|-----|---|---|----------------|
| CSA |  | <a href="http://www.csagroup.org/services-industries/product-listing/">http://www.csagroup.org/services-industries/product-listing/</a> | 013631_6233_01 |
|     |   | Nominal voltage UN  | 600 V          |
|     |   | Nominal current IN  | 10 A           |
|     |   | mm²/AWG/kcmil   | 16             |


|               |   |   |               |
|---------------|---|---|---------------|
| UL Recognized |  | <a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a> | FILE E 118976 |
|               |   | Nominal voltage UN  | 600 V         |
|               |   | Nominal current IN  | 10 A          |

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### Approvals

|               |    |
|---------------|----|
|               |    |
| mm²/AWG/kcmil | 14 |

|                    |   |   |               |
|--------------------|---|---|---------------|
| cUL Recognized     |  | <a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a> | FILE E 118976 |
|                    |   |   |               |
| Nominal voltage UN |   | 600 V   |               |
| Nominal current IN |   | 10 A  |               |
| mm²/AWG/kcmil      |   | 14  |               |

|     |   |  |                          |
|-----|---|--|--------------------------|
| EAC |  |  | RU C-<br>DE.AI30.B.01102 |
|-----|---|--|--------------------------|

|        |  |   |            |
|--------|--|---|------------|
| DNV GL |  | <a href="https://approvalfinder.dnvgl.com/">https://approvalfinder.dnvgl.com/</a> | TAE000037S |
|--------|--|---|------------|

|                  |   |  |  |
|------------------|---|--|--|
| cULus Recognized |  |  |  |
|------------------|---|--|--|

### Accessories

#### Accessories

#### Coding element

Coding profile - CP-HC - 1686478



Coding profile, 4 coding profiles per strip, for insertion in coding keyways

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### Accessories

Coding element - HC-CST - 1676857



Coding peg for coding up to 16 connectors

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Coding element - HC-CBU - 1676860



Coding socket for coding up to 16 connectors

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Coding bolt - HC-CB - 1772722



Coding pin, prevents mismatching of up to six connectors with an identical number of positions

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### DIN rail mounting frame

DIN rail mounting frame - HC-SMR-B16 - 1687972



HEAVYCON DIN rail mounting frame, for contact inserts of type B16

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### Mounting material

Screw - HC-B-PES - 1604997



PE screw, for contact inserts HC-B / HC-BB / HC-DD / HC-D40 / HC-D64



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### Accessories

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#### PE multiplier - HC-B-3PE - 1644326



PE multiplier, for three PE connections, for HC-B (besides HC-B..E..ZZ) / HC-BB / HC-DD / HC-D40 / HC-D64 contact inserts

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#### Strain relief clamp - HC-B-ZG - 1685327



Strain relief clamps contact inserts of series: B-, BB-, D 40, D 64, DD and HV, straight cable exit

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#### Strain relief clamp - HC-B-ZS - 1685330



Strain relief clamps contact inserts of series: B-, BB-, D 40, D 64, DD and HV, lateral cable exit