

## Contact insert - HC-B 16-I-DT-M-32 - 1584897

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HEAVYCON male insert, B16 series, 16-pos., numbering 17... 32, Push-in connection



### Key commercial data

|                      |          |
|----------------------|----------|
| Packing unit         | 1 1      |
| Custom tariff number | 85366990 |
| Country of origin    | China    |

### Technical data

#### General

|   |  |
|---|--|
| Note                                    | For HEAVYCON-ADVANCE 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. |
| Connection method                       | Push-in connection   |
| Pollution degree                        | 3  |
| Surge voltage category                  | III  |
| Constructional and testing regulations  | DIN EN 61984   |
|   | DIN EN 60664   |
|   | IEC 60352  |
| Number of positions                     | 16+PE  |
| Insertion/withdrawal cycles             | ≥ 500  |
| Design                                  | B16  |
| Conductor cross section                 | 0.5 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>  |
| Connection cross section AWG            | 20 ... 14  |
| Stripping length of the individual wire | 10 mm (13 mm if ferrules are used)   |
| Assembly instructions                   | 1) For single-stranded litz wires. For stranded wires use ferrules: 0.5 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> with / without insulating collar, length: 10 mm.   |

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## Technical data

### General

|            |   |
|------------|---|
|            | 2) SZF0-0.4x2.5 screwdriver (similar to DIN 5264).  |
| Connection | For housings of type B16. Connectors may be operated only when there is no load/voltage. 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. Mounting/removing the 0.5 - 0.75 mm <sup>2</sup> wires using screwdriver. |

### Ambient conditions

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

### Material data

|   |              |
|---|--------------|
| Inflammability class according to UL 94 | V0           |
| Contact material                        | Copper alloy |
| Contact surface material                | Ag           |
| Contact carrier material                | PA           |

### Electrical characteristics

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

## Classifications

### eCl@ss

|            |          |
|------------|----------|
| eCl@ss 4.0 | 272607xx |
| eCl@ss 4.1 | 27260701 |
| eCl@ss 5.0 | 27143424 |
| eCl@ss 5.1 | 27143424 |
| eCl@ss 6.0 | 27143424 |
| eCl@ss 7.0 | 27440209 |
| eCl@ss 8.0 | 27440209 |

### ETIM

|          |          |
|----------|----------|
| ETIM 3.0 | EC000438 |
| ETIM 4.0 | EC000438 |
| ETIM 5.0 | EC000438 |

### UNSPSC

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

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## Classifications

### UNSPSC

|              |          |
|--------------|----------|
| UNSPSC 12.01 | 39121522 |
| UNSPSC 13.2  | 39121522 |

## Approvals

### Approvals

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### Approvals

CSA / UL Recognized / cUL Recognized / cULus Recognized

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### Ex Approvals


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### Approvals submitted

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## Approval details

|   |       |
|---|-------|
| CSA  |       |
| mm <sup>2</sup> /AWG/kcmil  | 22-14 |
| Nominal current I <sub>N</sub>  | 13 A  |
| Nominal voltage U <sub>N</sub>  | 600 V |

|   |       |
|---|-------|
| UL Recognized  |       |
| mm <sup>2</sup> /AWG/kcmil  | 22-14 |
| Nominal current I <sub>N</sub>  | 13 A  |
| Nominal voltage U <sub>N</sub>  | 600 V |

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## Approvals

|                                |       |
|--------------------------------|-------|
| cUL Recognized                 |       |
| mm <sup>2</sup> /AWG/kcmil     | 22-14 |
| Nominal current I <sub>N</sub> | 13 A  |
| Nominal voltage U <sub>N</sub> | 600 V |

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

## Accessories

### Accessories

#### Adapter plate

Adapter plate - HC-B 24-ADP-B 16-GY - 1660449



HEAVYCON adapter plate, type B24 on B16, for panel cutouts of type B24, gray

### Coding element

Coding profile - CP-HC - 1686478



Encoding profile, 4 encoding profiles per strip, 40 strips per unit pack, for insertion in encoding grooves

Coding element - HC-CBU - 1676860



Coding socket for coding up to 16 connectors

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### Accessories

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Coding bolt - HC-CB - 1772722



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

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Coding element - HC-CST - 1676857



Coding peg for coding up to 16 connectors

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### Docking frame

Docking frames - HC-B 16-ANDOCK - 1586138



Docking frame for racks, for contact inserts of B16 type, with four M5 flat headed screws, rack balance x/y axis +/- 1.5 mm

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### Mounting material

Mounting material - HC-B-PES - 1604997



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

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### Accessories

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

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### Plug assembly frame

Connector assembly frame - HC-SMR-B16 - 1687972



HEAVYCON connector assembly frame, for contact inserts of type B16

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### Plug mounting plate

Connector assembly frame - HC-SMP 125-B16-AMQ - 1660973



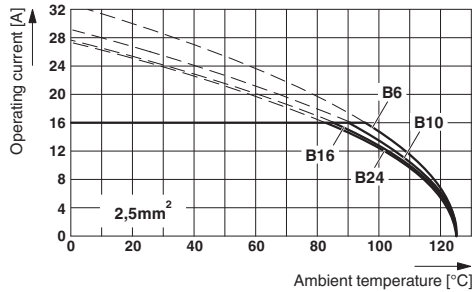
HEAVYCON connector assembly frame with panel mounting base with double locking latch, for contact inserts of type B16

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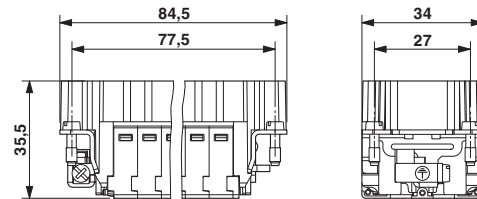
## Drawings

Diagram



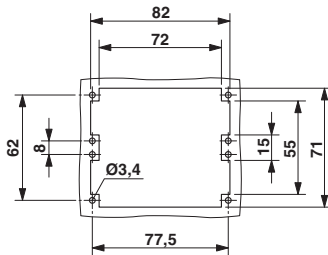
Derating diagram: HC-B...DT series

Dimensioned drawing



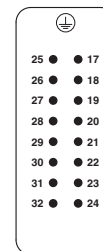
Male insert

Dimensioned drawing



Panel cutout

Schematic diagram



Connector pin assignment, connection side