

# HC-DD 72-ESTC-144

Order No.: 1674749



<http://eshop.phoenixcontact.de/phoenix/treeViewClick.do?UID=1674749>

HEAVYCON male insert, DD72 series, 72-pos., crimp connection, numbering from 73-144

## Commercial data

|                          |                                                                                                       |
|--------------------------|-------------------------------------------------------------------------------------------------------|
| GTIN (EAN)               | <br>4 017918 144661 |
| Note                     | Made-to-order                                                                                         |
| sales group              | D005                                                                                                  |
| Pack                     | 10 pcs.                                                                                               |
| Customs tariff           | 85366990                                                                                              |
| Catalog page information | Page 361 (PC-2007)                                                                                    |

## Product notes

WEEE/RoHS-compliant since:  
03/01/2006



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## Technical data

### General data

|                   |                                                                                                                                                                                                                                        |
|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Note              | For HEAVYCON ADVANCE housing of B16 type and HEAVYCON housing of B32 type, crimp contacts CK 1,6-ED (crimp contacts not included in the scope of supply). Plug-in connections may only be operated only when there is no load/voltage. |
| Connection method | Crimp connection                                                                                                                                                                                                                       |

|                                         |                                                                                                                                                                                      |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Ambient temperature (operation)         | -40 °C ... 125 °C (including heating up of contacts)                                                                                                                                 |
| Pollution degree                        | 3                                                                                                                                                                                    |
| Surge voltage category                  | III                                                                                                                                                                                  |
| Constructional and testing regulations  | DIN VDE 0627/86                                                                                                                                                                      |
|                                         | DIN VDE 0110/02.79                                                                                                                                                                   |
|                                         | DIN VDE 0110-1/04.97                                                                                                                                                                 |
|                                         | IEC 60664-1, DIN IEC 60512                                                                                                                                                           |
|                                         | IEC 60352                                                                                                                                                                            |
| Number of positions                     | 72                                                                                                                                                                                   |
| Insertion/withdrawal cycles             | ≥ 500                                                                                                                                                                                |
| Design                                  | DD72                                                                                                                                                                                 |
| Connection in acc. with standard        | IEC / EN                                                                                                                                                                             |
| Conductor cross-section                 | 0.14 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>                                                                                                                                         |
| Connection cross-section AWG            | 26 ... 14                                                                                                                                                                            |
| Stripping length of the individual wire | 8 mm                                                                                                                                                                                 |
|                                         | 6 mm (2.5 mm <sup>2</sup> )                                                                                                                                                          |
| Assembly instructions                   | -Housing heights with h ≥ 72 mm are recommended in the case of a large number of wires.-Use of HC-CST (1676857) keying pins and HC-CBU (1676860) coding sockets has been prescribed. |

#### Material data

|                                    |                       |
|------------------------------------|-----------------------|
| Inflammability class acc. to UL 94 | V0                    |
| Contact material                   | Copper alloy          |
| Contact surface material           | Ag (alternatively Au) |
| Contact carrier material           | PA                    |

#### Electrical characteristics

|                       |       |
|-----------------------|-------|
| Rated voltage (III/3) | 250 V |
| Rated surge voltage   | 4 kV  |
| Rated current         | 10 A  |

#### Certificates / Approvals



Certification

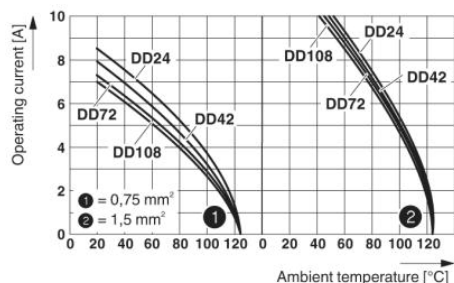
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## Accessories

| Item           | Designation | Description                                                                                                               |
|----------------|-------------|---------------------------------------------------------------------------------------------------------------------------|
| <b>General</b> |             |                                                                                                                           |
| 1644326        | HC-B-3PE    | PE multiplier, for three PE connections, for HC-B (besides HC-B..E..ZZ) / HC-BB / HC-DD / HC-D40 / HC-D64 contact inserts |
| 1604997        | HC-B-PES    | PE screw, for contact inserts HC-B / HC-BB / HC-DD / HC-D40 / HC-D64                                                      |
| 1685327        | HC-B-ZG     | Strain relief clamps contact inserts of series: B-, BB-, D 40, D 64, DD and HV, straight cable exit                       |
| 1685330        | HC-B-ZS     | Strain relief clamps contact inserts of series: B-, BB-, D 40, D 64, DD and HV, lateral cable exit                        |
| 1772722        | HC-CB       | Coding pin, prevents mismating of up to six plug connectors with an identical number of positions                         |
| 1676860        | HC-CBU      | Keying socket for coding up to 16 plug connectors                                                                         |
| 1676857        | HC-CST      | Keying peg for coding up to 16 plug connectors                                                                            |

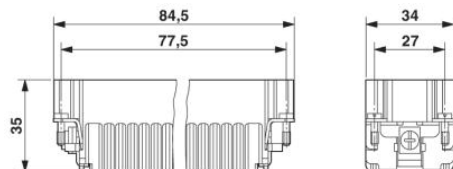
## Diagrams/Drawings

### Diagram



Derating diagram

### Dimensioned drawing

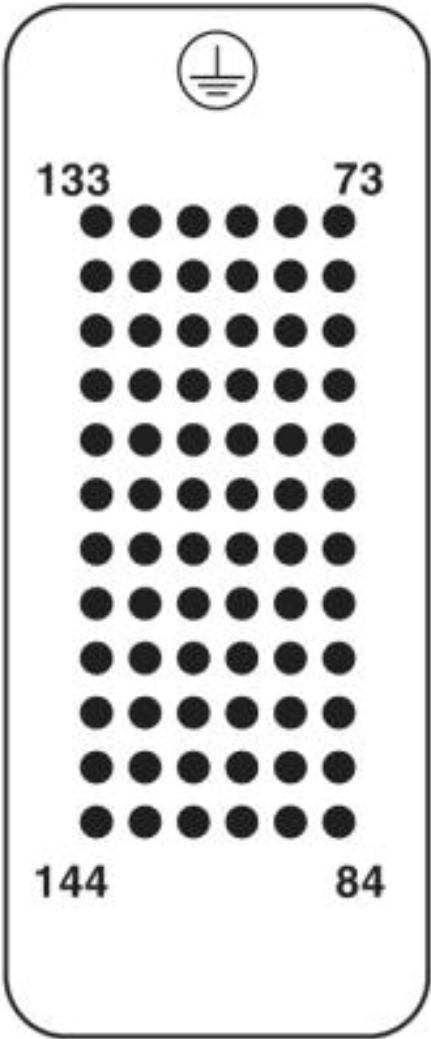


Mounting cut-out

Male insert

Schematic diagram

Connector pin assignment, connection side



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