

## Contact insert - HC-DD108-I-CT-M - 1584114

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HEAVYCON male insert, DD108 series, 108-pos., crimp connection

### Why buy this product

- ✓ Can be used in rail vehicles, satisfy DIN EN 45545-2 with requirement sets R22, R23, and R24 in hazard levels HL1, HL2, and HL3.

RoHS

### Key Commercial Data

|                                      |                                                                                                         |
|--------------------------------------|---------------------------------------------------------------------------------------------------------|
| Packing unit                         | 1 STK                                                                                                   |
| GTIN                                 | <br>4 046356 133425 |
| GTIN                                 | 4046356133425                                                                                           |
| Weight per Piece (excluding packing) | 82.600 g                                                                                                |
| Custom tariff number                 | 85366990                                                                                                |
| Country of origin                    | China                                                                                                   |

### Technical data

#### General

|                                        |                                                                                                                                                                                                                    |
|----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Note                                   | For HEAVYCON ADVANCE and HEAVYCON housing of B24 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                                                                                                                                                                                                   |
| Degree of pollution                    | 3                                                                                                                                                                                                                  |
| Overvoltage category                   | III                                                                                                                                                                                                                |
| Constructional and testing regulations | DIN VDE 0627/86                                                                                                                                                                                                    |
|                                        | DIN VDE 0110/02.79                                                                                                                                                                                                 |
|                                        | DIN VDE 0110-1/04.97                                                                                                                                                                                               |

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## Technical data

### General

|                                         |                                                                                                                                                                                          |
|-----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                         | IEC 60664-1, DIN IEC 60512                                                                                                                                                               |
|                                         | IEC 60352                                                                                                                                                                                |
| Number of positions                     | 108+PE                                                                                                                                                                                   |
| Insertion/withdrawal cycles             | ≥ 500                                                                                                                                                                                    |
| Size                                    | B24                                                                                                                                                                                      |
| Connection in acc. with standard        | IEC / EN                                                                                                                                                                                 |
| Conductor cross section                 | 0.14 mm² ... 2.5 mm²                                                                                                                                                                     |
| Connection cross section AWG            | 26 ... 14                                                                                                                                                                                |
| Stripping length of the individual wire | 8 mm (0.14 - 1.5 mm²)                                                                                                                                                                    |
|                                         | 6 mm (2.5 mm²)                                                                                                                                                                           |
| Assembly instructions                   | -Housing heights with h ≥ 72 mm are recommended in the case of a large number of wires.<br>-Use of HC-CST (1676857) coding pins and HC-CBU (1676860) coding sockets has been prescribed. |
| Connection                              | Connectors may be plugged in only when there is no load/voltage.                                                                                                                         |

### Ambient conditions

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

### Material data

|                                        |                                                                                                                         |
|----------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| 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 sets R22, R23, and R24 acc. to DIN EN 45545-2 (Risk level HL1 - HL3) |

### Electrical characteristics

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

### Standards and Regulations

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

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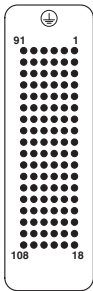
Technical data

Environmental Product Compliance

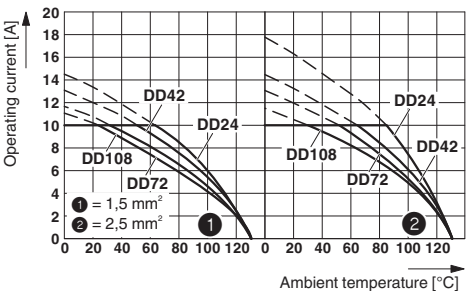
|            |                                                         |
|------------|---------------------------------------------------------|
| China RoHS | Environmentally friendly use period: unlimited = EFUP-e |
|            | No hazardous substances above threshold values          |

Drawings

Schematic diagram



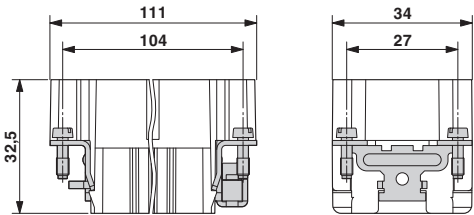
Diagram



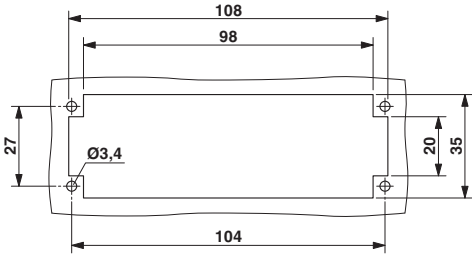
Connector pin assignment, connection side

Derating diagram

Dimensional drawing



Dimensional drawing



Male insert

Mounting cutout when used without housing

Approvals

Approvals

Approvals

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

Ex Approvals

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### Approvals

#### Approval details

|                                                                                                                                                                                                                                                                                                             |       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| CSA  <a href="http://www.csagroup.org/services/testing-and-certification/certified-product-listing/013631_6233_01">http://www.csagroup.org/services/testing-and-certification/certified-product-listing/013631_6233_01</a> |       |
| mm²/AWG/kcmil                                                                                                                                                                                                                                                                                               | 26-14 |
| Nominal current I <sub>N</sub>                                                                                                                                                                                                                                                                              | 7 A   |
| Nominal voltage U <sub>N</sub>                                                                                                                                                                                                                                                                              | 250 V |

|                                                                                                                                                                                                                                                                     |       |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| 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 |       |
| mm²/AWG/kcmil                                                                                                                                                                                                                                                       | 14    |
| Nominal current I <sub>N</sub>                                                                                                                                                                                                                                      | 10 A  |
| Nominal voltage U <sub>N</sub>                                                                                                                                                                                                                                      | 250 V |

|                                                                                                                                                                                                                                                                        |       |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| 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 |       |
| mm²/AWG/kcmil                                                                                                                                                                                                                                                          | 14    |
| Nominal current I <sub>N</sub>                                                                                                                                                                                                                                         | 7 A   |
| Nominal voltage U <sub>N</sub>                                                                                                                                                                                                                                         | 250 V |

|                   |
|-------------------|
| EAC EAC-Zulassung |
|-------------------|

|                         |
|-------------------------|
| EAC 7500651.22.01.00246 |
|-------------------------|

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|--------------------------------------------------------------------------------------------------------------------------------------------|
| GL <a href="http://www.gl-group.com/newbuilding/approvals/index.html">http://www.gl-group.com/newbuilding/approvals/index.html</a> 6196614 |
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| cULus 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> |
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