

## Contact insert - HC-DD24-I-CT-F - 1584046

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HEAVYCON female insert, DD24 series, 24-pos., crimp connection

### Your advantages

- ✓ 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 pc                                                                                                    |
| GTIN         | <br>4 046356 133357 |
| GTIN         | 4046356133357                                                                                           |

### Technical data

#### General

|                                         |                                                                                                                                                                                                                   |
|-----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Note                                    | For HEAVYCON ADVANCE and HEAVYCON housing of B6 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                                                                                                                                                                                                               |
| Number of positions                     | 24+PE                                                                                                                                                                                                             |
| Insertion/withdrawal cycles             | ≥ 500                                                                                                                                                                                                             |
| Size                                    | B6                                                                                                                                                                                                                |
| Contact numbering                       | 1 - 24                                                                                                                                                                                                            |
| 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)                                                                                                                                                                                                    |

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## Technical data

### General

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

|                          |                                                                                                                         |
|--------------------------|-------------------------------------------------------------------------------------------------------------------------|
| 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

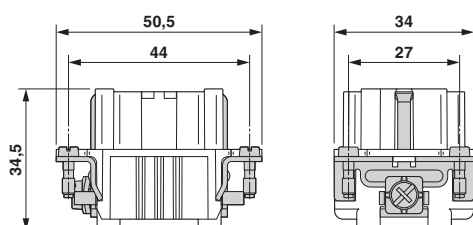
|                                        |                            |
|----------------------------------------|----------------------------|
| Connection in acc. with standard       | CSA                        |
| Constructional and testing regulations | DIN VDE 0627/86            |
|                                        | 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                         |

### Environmental Product Compliance

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

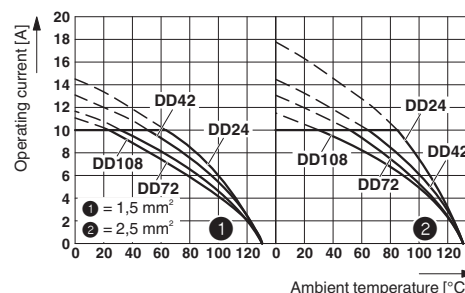
## Drawings

Dimensional drawing



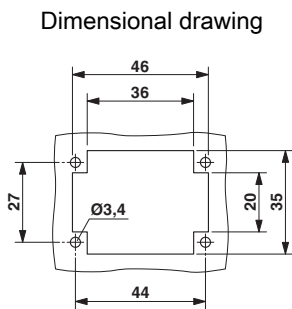
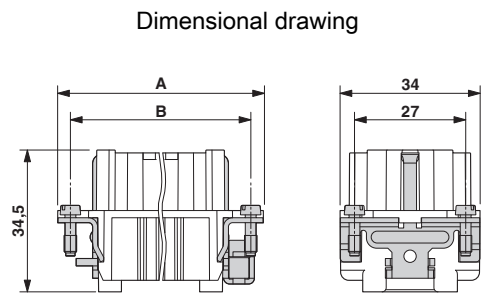
Female insert

Diagram



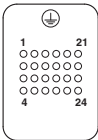
Derating diagram

Contact insert - HC-DD24-I-CT-F - 1584046



Mounting cutout when used without housing

Schematic diagram



Connector pin assignment, connection side

Approvals

Approvals

Approvals

CSA / GL / UL Recognized / cUL Recognized / EAC / 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 |                                                                                     | 250 V                                                                                                                                   |                |
| Nominal current IN |                                                                                     | 7 A                                                                                                                                     |                |
| mm²/AWG/kcmil      |                                                                                     | 26-14                                                                                                                                   |                |

|    |                                                                                     |                                                                           |            |
|----|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------|------------|
| GL |  | <a href="http://exchange.dnv.com/tari/">http://exchange.dnv.com/tari/</a> | 6196614 HH |
|----|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------|------------|

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### Approvals

|                    |  |                                                                                   |                                                                                                                                                       |               |
|--------------------|--|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| 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 |  | 250 V                                                                             |                                                                                                                                                       |               |
| Nominal current IN |  | 10 A                                                                              |                                                                                                                                                       |               |
| 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 | 250 V |                                                                                   |                                                                                                                                                       |               |
| Nominal current IN | 7 A   |                                                                                   |                                                                                                                                                       |               |
| mm²/AWG/kcmil      | 14    |                                                                                   |                                                                                                                                                       |               |

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

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

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