

## Contact insert - HC-D 25-I-CT-F - 1584402

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HEAVYCON female insert, D25 series, 25-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.



### Key Commercial Data

|              |                                                                                                         |
|--------------|---------------------------------------------------------------------------------------------------------|
| Packing unit | 1 pc                                                                                                    |
| GTIN         | <br>4 046356 142663 |
| GTIN         | 4046356142663                                                                                           |

### Technical data

#### General

|                                    |                                                                                                                       |
|------------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| Note                               | For HEAVYCON housing type D25, CK1,6-ED crimp contacts (crimp contacts not supplied as standard)                      |
|                                    | Connectors may be operated only when there is no load/voltage.                                                        |
|                                    | It is imperative that guide pins (HC-CST) and sockets (HC-CBU) are used to prevent tip collision due to misalignment. |
| Connection method                  | Crimp connection                                                                                                      |
| Torque                             | 0.7 Nm ... 1 Nm (PE connection)                                                                                       |
|                                    | 0.5 Nm ... 0.8 Nm (Mounting screws for mounting in the HEAVYCON housing)                                              |
| Number of connections per position | 1                                                                                                                     |
| Degree of pollution                | 3                                                                                                                     |
| Overvoltage category               | III                                                                                                                   |
| Number of positions                | 25+PE                                                                                                                 |
| Insertion/withdrawal cycles        | ≥ 500                                                                                                                 |
| Size                               | D25                                                                                                                   |
|                                    | D50                                                                                                                   |

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## Technical data

### General

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

### 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

|                                        |                            |
|----------------------------------------|----------------------------|
| 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                         |
| Standards/regulations                  | acc. to DIN EN 45545-2     |

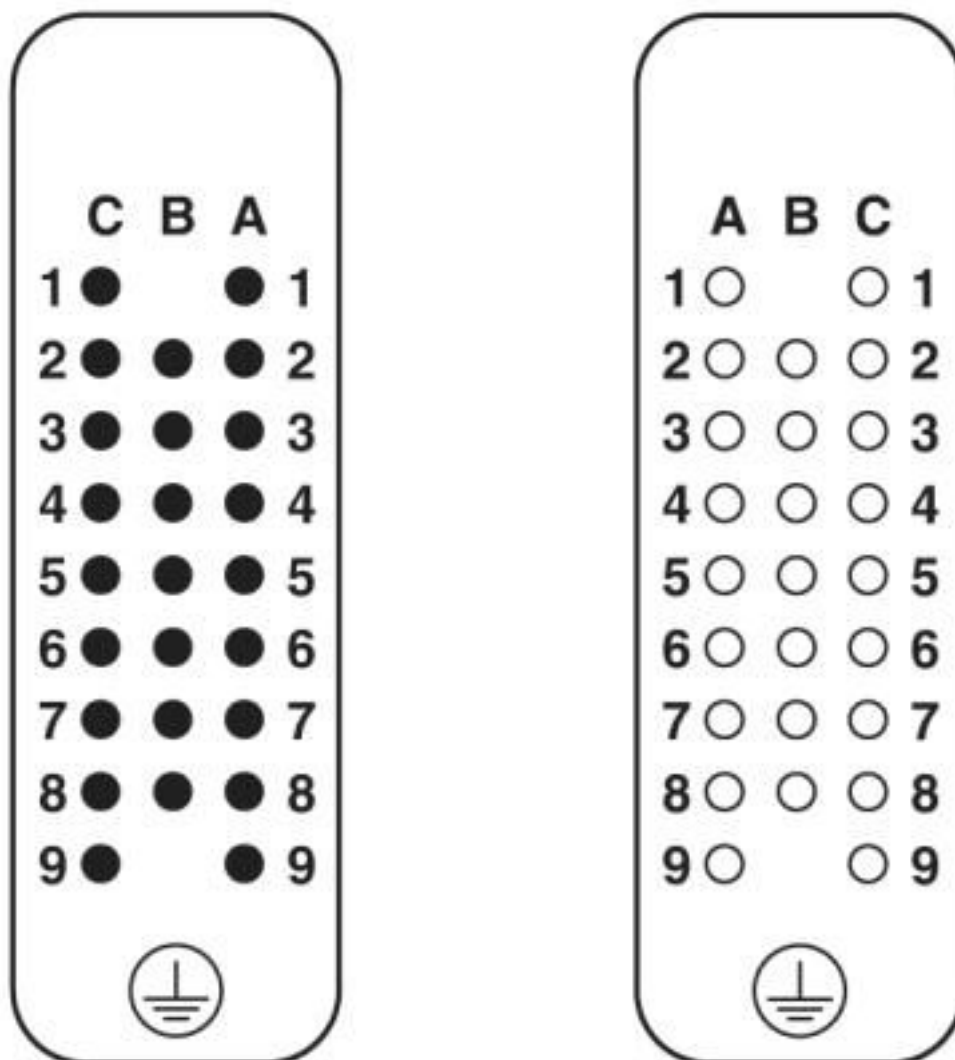
### Environmental Product Compliance

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

## Drawings

## Contact insert - HC-D 25-I-CT-F - 1584402

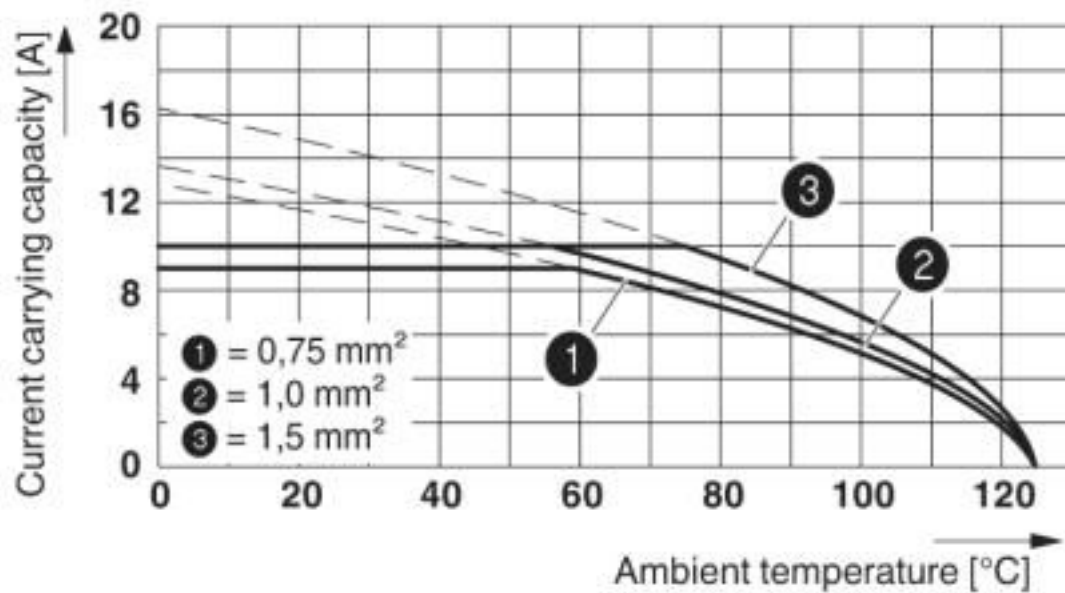
Schematic diagram



Connector pin assignment connection side: Left pin; right socket

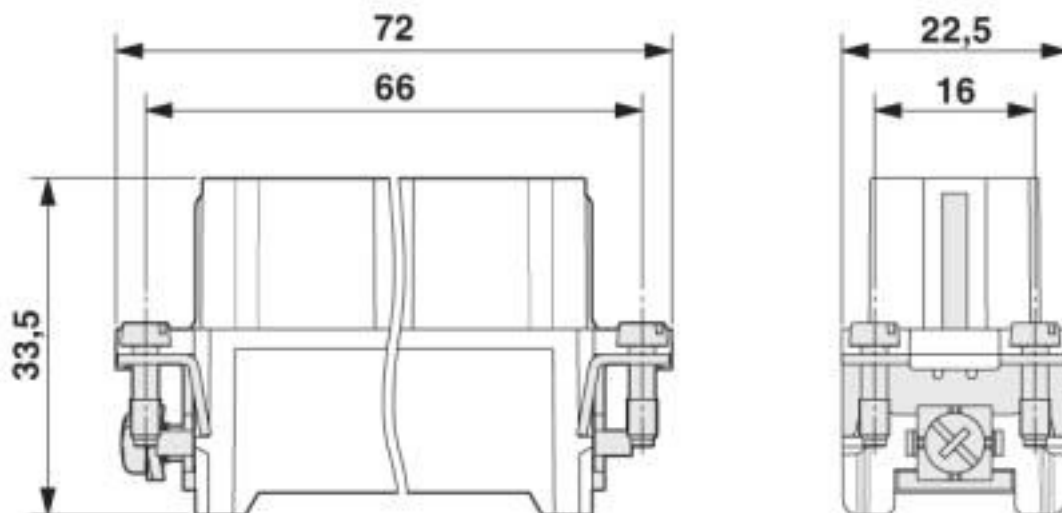
## Contact insert - HC-D 25-I-CT-F - 1584402

Diagram



Derating diagram: HC-D...C series

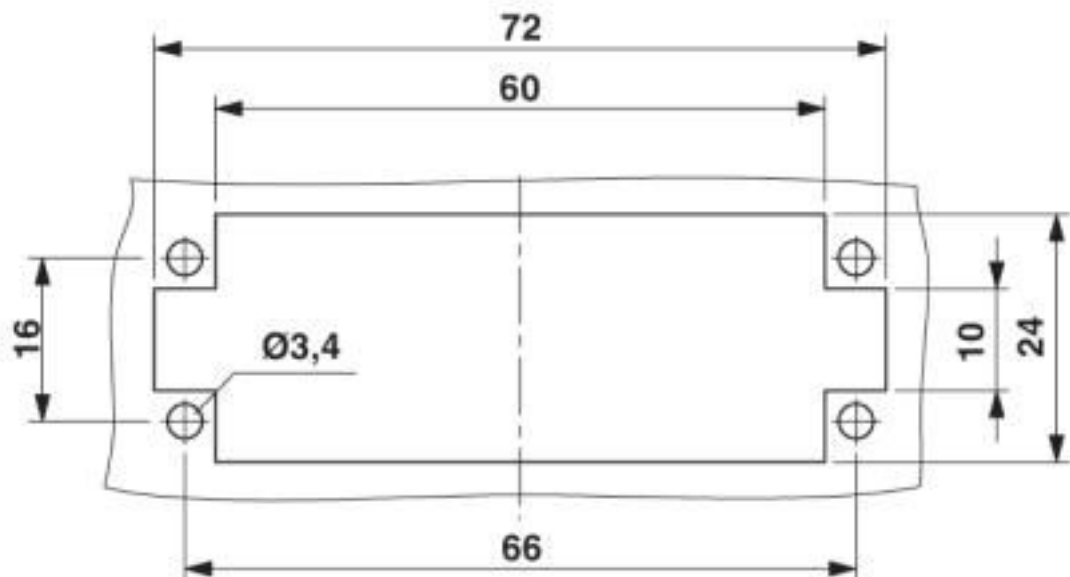
Dimensional drawing



Female insert

## Contact insert - HC-D 25-I-CT-F - 1584402

Dimensional drawing



Mounting cutout when used without housing

### Classifications

eCl@ss

|               |          |
|---------------|----------|
| eCl@ss 10.0.1 | 27440205 |
| 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 | EC000438 |
| ETIM 3.0 | EC000438 |
| 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 |

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### Classifications

#### UNSPSC

|              |          |
|--------------|----------|
| UNSPSC 12.01 | 39121522 |
| UNSPSC 13.2  | 39121522 |
| UNSPSC 18.0  | 39121522 |
| UNSPSC 19.0  | 39121522 |
| UNSPSC 20.0  | 39121522 |
| UNSPSC 21.0  | 39121522 |

### Approvals

#### Approvals

#### Approvals

CSA / UL Recognized / EAC / DNV GL / EAC

#### Ex Approvals

#### Approval details

|                    |                                                                                     |                                                                                                                                         |       |
|--------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|-------|
| CSA                |  | <a href="http://www.csagroup.org/services-industries/product-listing/">http://www.csagroup.org/services-industries/product-listing/</a> | 13631 |
|                    |                                                                                     |                                                                                                                                         |       |
| Nominal voltage UN | 600 V                                                                               |                                                                                                                                         |       |
| Nominal current IN | 8 A                                                                                 |                                                                                                                                         |       |
| mm²/AWG/kcmil      | 14                                                                                  |                                                                                                                                         |       |

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

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

## Contact insert - HC-D 25-I-CT-F - 1584402

### Approvals

DNV GL



<https://approvalfinder.dnvgl.com/>

TAE000037S

EAC



RU C-  
DE.BL08.B.00511

### Accessories

#### Accessories

#### Assembly tool

Assembly tool - UNIFOX MT-CK 1.6/2.5 - 1089092



Assembly tool, for CK 1.6... crimp contacts for small conductor cross sections

#### Coding element

Coding element - HC-CST - 1676857



Coding peg for coding up to 16 connectors

Coding element - HC-CBU - 1676860



Coding socket for coding up to 16 connectors

Coding bolt - HC-CB - 1772722



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

## Contact insert - HC-D 25-I-CT-F - 1584402

### Accessories

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Dummy socket - CK1,6-ED-BB - 1645888



Dummy socket for contact carrier with turned CK 1,6-ED.. female contacts

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### Crimp contact

Crimp contact - CK1,6-ED-0,37BU AG - 1663394



Turned 1.6 crimp contact, individual female contact, core diameter 0.14 to 0.37 mm², silver-plated

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Crimp contact - CK1,6-ED-0,50BU AG - 1663404



Turned 1.6 crimp contact, individual female contact, core diameter 0.5 mm², silver-plated

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Crimp contact - CK1,6-ED-0,75BU AG - 1663417



Turned 1.6 crimp contact, individual female contact, core diameter 0.75 mm², silver-plated

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Crimp contact - CK1,6-ED-1,00BU AG - 1663420



Turned 1.6 crimp contact, individual female contact, core diameter 0.75 to 1.00 mm², silver-plated

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## Contact insert - HC-D 25-I-CT-F - 1584402

### Accessories

Crimp contact - CK1,6-ED-1,50BU AG - 1663433



Turned 1.6 crimp contact, individual female contact, core diameter 1.5 mm<sup>2</sup>, silver-plated

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Crimp contact - CK1,6-ED-2,50BU AG - 1663446



Turned 1.6 crimp contact, individual female contact, core diameter 2.5 mm<sup>2</sup>, silver-plated

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Crimp contact - CK1,6-ED-0,37BU AU - 1674969



Turned 1.6 crimp contact, individual female contact, core diameter 0.14 to 0.37 mm<sup>2</sup>, gold-plated

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Crimp contact - CK1,6-ED-0,50BU AU - 1674480



Turned 1.6 crimp contact, individual female contact, core diameter 0.5 mm<sup>2</sup>, gold-plated

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Crimp contact - CK1,6-ED-0,75BU AU - 1672440



Turned 1.6 crimp contact, individual female contact, core diameter 0.75 mm<sup>2</sup>, gold-plated

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## Contact insert - HC-D 25-I-CT-F - 1584402

### Accessories

Crimp contact - CK1,6-ED-1,00BU AU - 1674943



Turned 1.6 crimp contact, individual female contact, core diameter 0.75 to 1.00 mm<sup>2</sup>, gold-plated

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Crimp contact - CK1,6-ED-1,50BU AU - 1674930



Turned 1.6 crimp contact, individual female contact, core diameter 1.5 mm<sup>2</sup>, gold-plated

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Crimp contact - CK1,6-ED-2,50BU AU - 1674985



Turned 1.6 crimp contact, individual female contact, core diameter 2.5 mm<sup>2</sup>, gold-plated

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Crimp contact - CK1,6-ER-1,00BU OIC AG - 1004362



Crimp contact, contact diameter: 1.6 mm, rolled, Socket, contact material: Cu alloy, nickel-plated, contact surface: silver-plated, connection cross section: 0.34 mm<sup>2</sup> ... 1 mm<sup>2</sup> AWG 22 ... 17

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Crimp contact - CK1,6-ER-2,50BU OIC AG - 1004366



Crimp contact, contact diameter: 1.6 mm, rolled, Socket, contact material: Cu alloy, nickel-plated, contact surface: silver-plated, connection cross section: 1.5 mm<sup>2</sup> ... 2.5 mm<sup>2</sup> AWG 16 ... 14

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## Contact insert - HC-D 25-I-CT-F - 1584402

### Accessories

Crimp contact - CK1,6-BR-1,00BU OIC AG - 1004381



Crimp contact, contact diameter: 1.6 mm, rolled, Socket, contact material: Cu alloy, nickel-plated, contact surface: silver-plated, connection cross section: 0.34 mm<sup>2</sup> ... 1 mm<sup>2</sup> AWG 22 ... 17

Crimp contact - CK1,6-BR-2,50BU OIC AG - 1004383



Crimp contact, contact diameter: 1.6 mm, rolled, Socket, contact material: Cu alloy, nickel-plated, contact surface: silver-plated, connection cross section: 1.5 mm<sup>2</sup> ... 2.5 mm<sup>2</sup> AWG 16 ... 14

### Crimping tool

Crimping pliers - CRIMPFOX-TC 4 - 1212113



Crimping pliers, for CK 1,6-ED..., CK 2,5-ED..., CK 4,0-ED... turned contacts, 4 marked die stations, unlockable pressure lock, lateral entry, incl. positioning tool

### Mounting material

Screw - HC-A-PES - 1584868



PE screw for contact inserts of A series

### Universal tools

Contact removal tool - UNIFOX RT-CK 1.6 - 1072069



Contact removal tool, for turned and rolled CK- 1.6-... contacts

### Additional products

## Contact insert - HC-D 25-I-CT-F - 1584402

### Accessories

Contact insert - HC-D 25-I-CT-M - 1584392



HEAVYCON male insert, D25 series, 25-pos., crimp connection

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