



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: [info@chipsmall.com](mailto:info@chipsmall.com) Web: [www.chipsmall.com](http://www.chipsmall.com)

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



## Contact insert - HC-D07-I-CT-F-42V-METAL - 1425006

Please be informed that the data shown in this PDF Document is generated from our Online Catalog. Please find the complete data in the user's documentation. Our General Terms of Use for Downloads are valid (<http://phoenixcontact.com/download>)




HEAVYCON male insert, D7 series, 7-pos., crimp connection, with IP65 sealing screw

### 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   |
| Minimum order quantity | 10 STK  |
| GTIN                   | <br>4 055626 383354 |
| GTIN                   | 4055626383354   |

### Technical data

#### General

|   |   |
|---|---|
| Note                                    | For HC-D7 housing, crimp contacts CK1,6-ED (crimp contacts not included in scope of supply) |
| Connection method                       | Crimp connection  |
| Degree of pollution                     | 3   |
| Overvoltage category                    | III   |
| Number of positions                     | 7+PE  |
| Insertion/withdrawal cycles             | ≥ 500   |
| Size                                    | D7  |
| Contact numbering                       | 1 - 7   |
| 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 (0.14 ... 1.5 mm <sup>2</sup> )  |
|   | 6 mm (2.5 mm <sup>2</sup> )   |
| Assembly instructions                   | Connectors may be operated only when there is no load/voltage.                              |

# Contact insert - HC-D07-I-CT-F-42V-METAL - 1425006

## Technical data

### Ambient conditions

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

### Material data

|                          |   |
|--------------------------|---|
| Seal material            | NBR   |
| 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

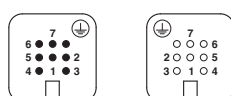
|                       |      |
|-----------------------|------|
| Rated voltage (III/3) | 42 V |
| Rated surge voltage   | 4 kV |
| Rated current         | 10 A |

### 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                         |

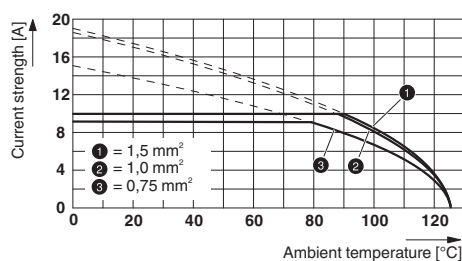
## Drawings

### Schematic diagram



Connector pin assignment connection side: Left pin; right socket

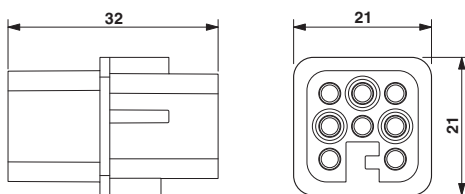
### Diagram



Derating diagram: Series HC-D 7-I-CT..

# Contact insert - HC-D07-I-CT-F-42V-METAL - 1425006

Dimensional drawing



Female insert

## Approvals


Approvals


Approvals

UL Recognized / CSA

Ex Approvals

## Approval details

|                    |   |   |         |
|--------------------|---|---|---------|
| 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> | E118976 |
| Nominal voltage UN | 42 V  |   |         |
| Nominal current IN | 10 A  |   |         |
| mm²/AWG/kcmil      | 14  |   |         |

|                    |   |   |       |
|--------------------|---|---|-------|
| CSA                |  | <a href="http://www.csagroup.org/services-industries/product-listing/">http://www.csagroup.org/services-industries/product-listing/</a> | 13631 |
| Nominal voltage UN | 42 V  |   |       |
| Nominal current IN | 10 A  |   |       |
| mm²/AWG/kcmil      | 14  |   |       |

Phoenix Contact 2018 © - all rights reserved  
<http://www.phoenixcontact.com>

PHOENIX CONTACT GmbH & Co. KG  
Flachsmarktstr. 8  
32825 Blomberg  
Germany  
Tel. +49 5235 300  
Fax +49 5235 3 41200  
<http://www.phoenixcontact.com>