

# HC-D 7-I-CT-F - Contact insert



1584347

<https://www.phoenixcontact.com/us/products/1584347>

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 documentation. Our general terms of use for downloads are valid.



Contact insert, number of positions: 7+PE, size: D7, number of connections per position: 1, Socket, Crimp connection, 250 V, 10 A, 0.14 mm<sup>2</sup> ... 2.5 mm<sup>2</sup>, Only suitable for plastic housings

## 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.

## Commercial data

Item number	1584347
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF61
Product key	BF7ABJ
Catalog page	Page 507 (C-2-2019)
GTIN	4046356142601
Weight per piece (including packing)	9.5 g
Weight per piece (excluding packing)	7.5 g
Customs tariff number	85389099
Country of origin	CN

# HC-D 7-I-CT-F - Contact insert



1584347

<https://www.phoenixcontact.com/us/products/1584347>

## Technical data

### Notes

General	For HC-D7 housing, crimp contacts CK1,6-ED (crimp contacts not included in scope of supply)
General	Connectors may be operated only when there is no load/voltage.
General	This product replaces 1679508 HC-D 7-EBUC-R

### Mounting

Assembly instructions	To ensure correct use, installation in housing with IP54 protection or better is required
	The contact insert may on be installed in plastic housings of the HC-D07-STA...-PL-BK range.

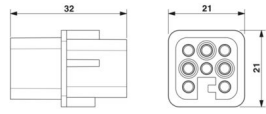
### Product properties

Type	D7
Product type	Contact insert with a fixed no. of positions
Number of positions	7
Note number of positions	7+PE
Connection profile	7+PE
Contact numbering	1 - 7
Number of connections per position	1
Contact material type	turned
	rolled
Series	HC-D

### Insulation characteristics

Overvoltage category	III
Degree of pollution	3

### Dimensions

Dimensional drawing	
Width	21 mm
Height	32 mm
Length	21 mm

### Mechanical characteristics

Contact diameter	1.6 mm
------------------	--------

### Connection data

#### Connection technology

# HC-D 7-I-CT-F - Contact insert



1584347

<https://www.phoenixcontact.com/us/products/1584347>

Connection technology	Crimp connection
Number of connections per position	1
Connection in acc. with standard	IEC / EN

## Conductor connection

Conductor cross section	0.14 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Connection cross section AWG	26 ... 14
Tightening torque	0.5 Nm ... 0.8 Nm (Mounting screws for mounting in the HEAVYCON housing)
Stripping length of the individual wire	8 mm (0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> )
	6 mm (2.5 mm <sup>2</sup> )

## Electrical properties

Rated voltage (III/3)	250 V
Rated surge voltage	4 kV
Rated current	10 A
SCCR	5 kA (UL 2237)

## Mechanical properties

### Mechanical data

Insertion/withdrawal cycles	≥ 500
-----------------------------	-------

## Material specifications

Flammability rating according to UL 94	V0
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)

## Environmental and real-life conditions

### Ambient conditions

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

## 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
Tests	DIN VDE 0627/86
	DIN VDE 0110/02.79
	DIN VDE 0110-1/04.97
	IEC 60664-1, DIN IEC 60512

# HC-D 7-I-CT-F - Contact insert



1584347

<https://www.phoenixcontact.com/us/products/1584347>

	IEC 60352
--	-----------

## Testing

Standards/regulations	PC: Fire protection in rail vehicles - requirement sets R22, R23, and R24 acc. to DIN EN 45545-2 (Risk level HL1 - HL3)
-----------------------	---

# HC-D 7-I-CT-F - Contact insert



1584347

<https://www.phoenixcontact.com/us/products/1584347>

## Classifications

### ECLASS

ECLASS-11.0	27440205
ECLASS-12.0	27440205
ECLASS-13.0	27440205

### ETIM

ETIM 9.0	EC000438
----------	----------

### UNSPSC

UNSPSC 21.0	39121500
-------------	----------

# HC-D 7-I-CT-F - Contact insert



1584347

<https://www.phoenixcontact.com/us/products/1584347>

## Environmental product compliance

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

Phoenix Contact 2024 © - all rights reserved  
<https://www.phoenixcontact.com>

Phoenix Contact USA  
586 Fulling Mill Road  
Middletown, PA 17057, United States  
(+717) 944-1300  
[info@phoenixcon.com](mailto:info@phoenixcon.com)