

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



1584347

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

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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	BF7ABJ
Product Key	BF7ABJ
Catalog Page	Page 507 (C-2-2019)
GTIN	4046356142601
Weight per Piece (including packing)	9.7 g
Weight per Piece (excluding packing)	7.5 g
Customs tariff number	85389099
Country of origin	CN

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## 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

### 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
Number of connections per position	1
Contact type	turned rolled
Series	HC-D

### Insulation characteristics

Overvoltage category	III
Degree of pollution	3

### Connection data

#### Connection technology

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

#### Conductor connection

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> )

### Dimensions

Dimensional drawing	
Width	21 mm
Height	32 mm
Length	21 mm

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## Mechanical characteristics

Contact diameter	1.6 mm
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## Electrical properties

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

## 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)

## Connector

Insertion/withdrawal cycles	≥ 500
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## Cable / line

### Cable structure

Stripping length of the individual wire	8 mm (0.14 ... 1.5 mm <sup>2</sup> )
	6 mm (2.5 mm <sup>2</sup> )

## 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.

## Ambient conditions

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

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	IEC 60352
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## 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)
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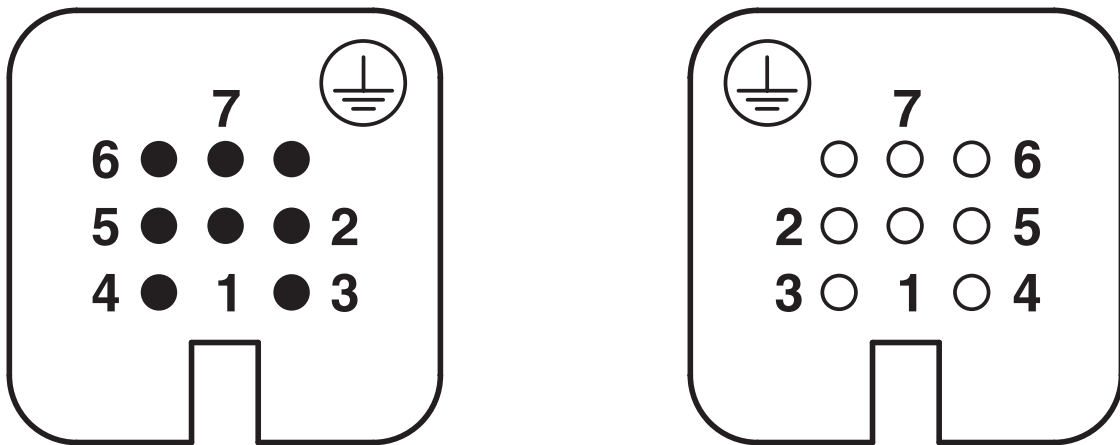


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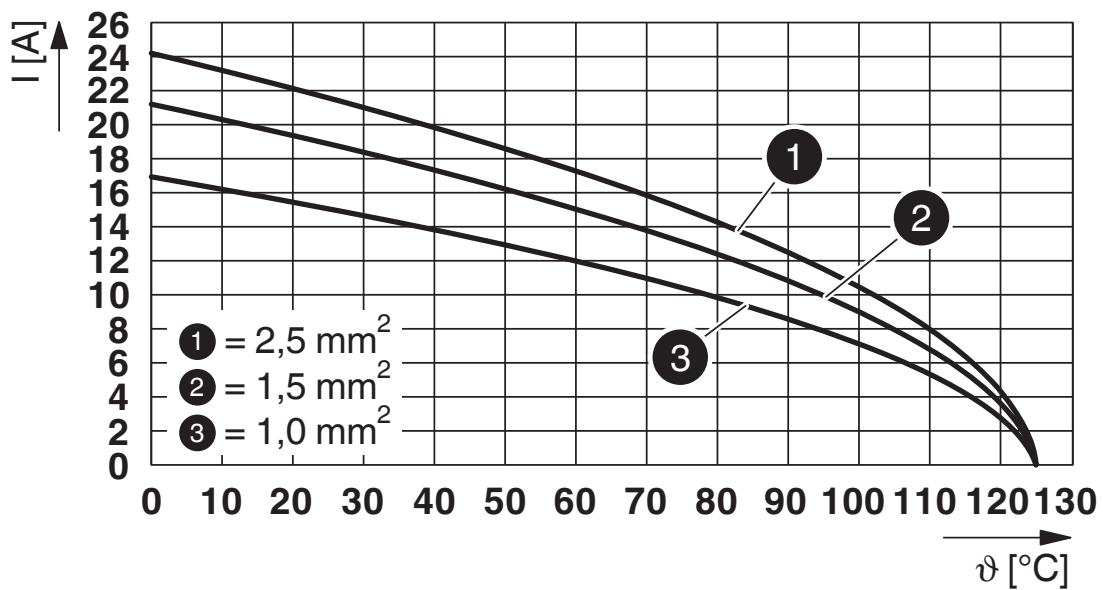
## Drawings

Schematic diagram



Connector pin assignment connection side: Left pin; right socket

Diagram



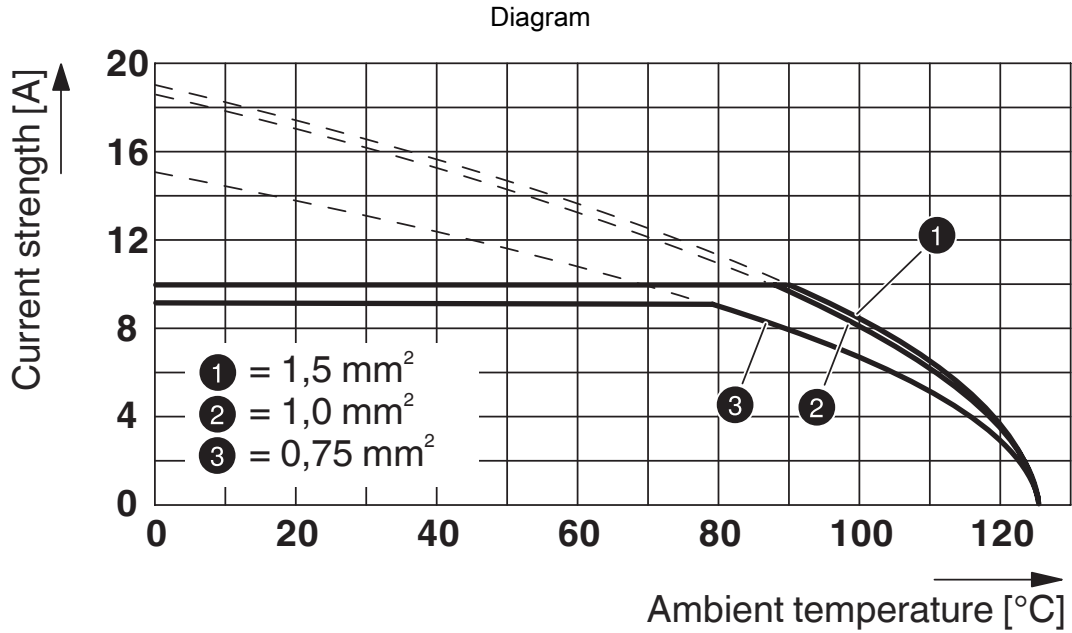
Derating diagram turned contacts

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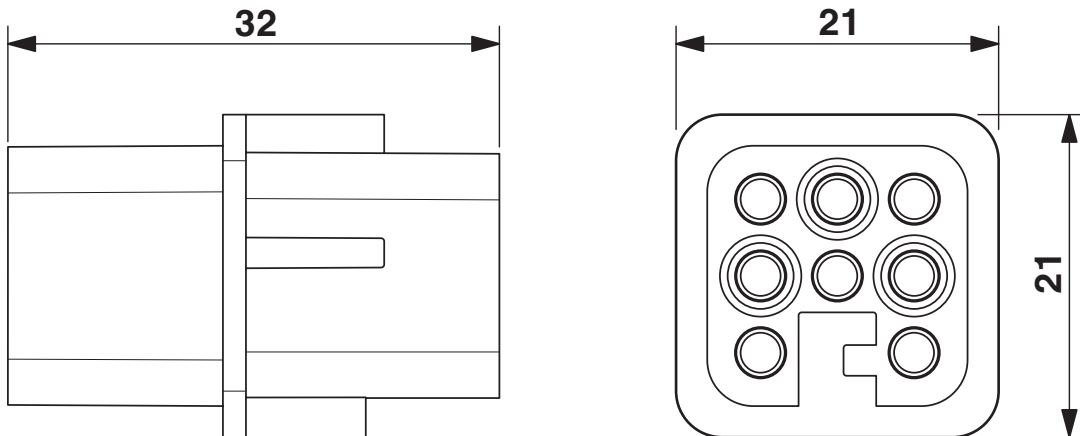
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Derating diagram: Series HC-D 7-I-CT..

## Dimensional drawing



Female insert

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## Approvals

**DNV**

Approval ID: TAE000037S

**CSA**

Approval ID: 13631

	Nominal Voltage $U_N$	Nominal Current $I_N$	Cross Section AWG	Cross Section $\text{mm}^2$
	600 V	10 A	- 14	-

**UL Recognized**

Approval ID: FILE E 118976

	Nominal Voltage $U_N$	Nominal Current $I_N$	Cross Section AWG	Cross Section $\text{mm}^2$
	600 V	12 A	- 14	-

**EAC**

Approval ID: RU C-DE.AI30.B.01102

**cULus Recognized**

Approval ID: E468743

	Nominal Voltage $U_N$	Nominal Current $I_N$	Cross Section AWG	Cross Section $\text{mm}^2$
	600 V	12 A	- 14	-

**EAC**

Approval ID: RU C-DE.BL08.B.00511

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## Classifications

### ECLASS

ECLASS-9.0	27440205
ECLASS-10.0.1	27440205
ECLASS-11.0	27440205

### ETIM

ETIM 8.0	EC000438
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### UNSPSC

UNSPSC 21.0	39121500
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## Environmental Product Compliance

China RoHS	Environmentally Friendly Use Period = 50 years For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"
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