

Contact insert - HC-D 7-I-CT-M



1584334

<https://www.phoenixcontact.com/gb/products/1584334>

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Contact insert, number of positions: 7+PE, size: D7, number of connections per position: 1, Pin, Crimp connection, 250 V, 10 A, 0.14 mm² ... 2.5 mm², 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	1584334
Packing unit	1 pc
Minimum order quantity	1 pc
Sales Key	BF7ABJ
Product Key	BF7ABJ
Catalog Page	Page 507 (C-2-2019)
GTIN	4046356142595
Weight per Piece (including packing)	8.8 g
Weight per Piece (excluding packing)	8.45 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 1674456 HC-D 7-ESTC-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 ²)
	6 mm (2.5 mm ²)

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
Sealing material	NBR, conductive (profile gasket)
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 ²)
	6 mm (2.5 mm ²)

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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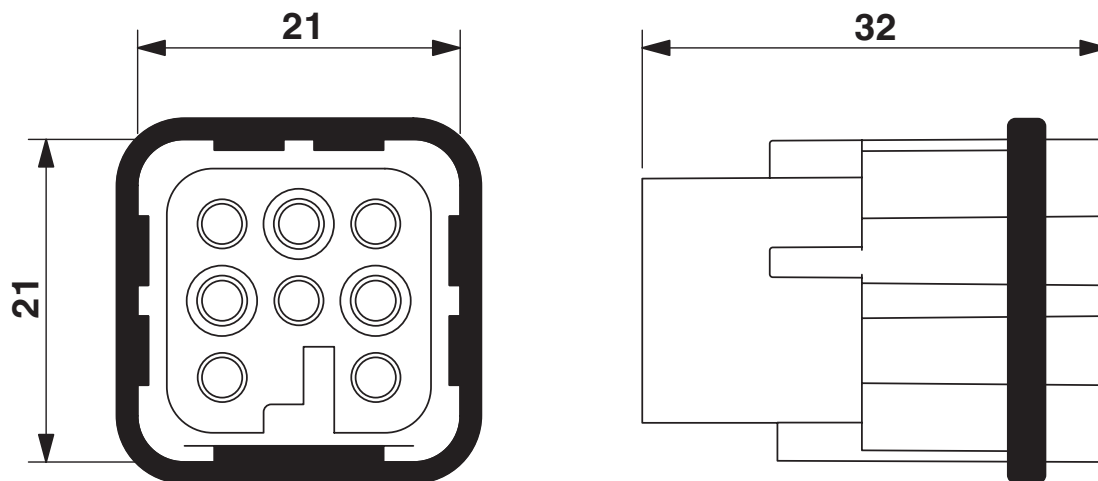


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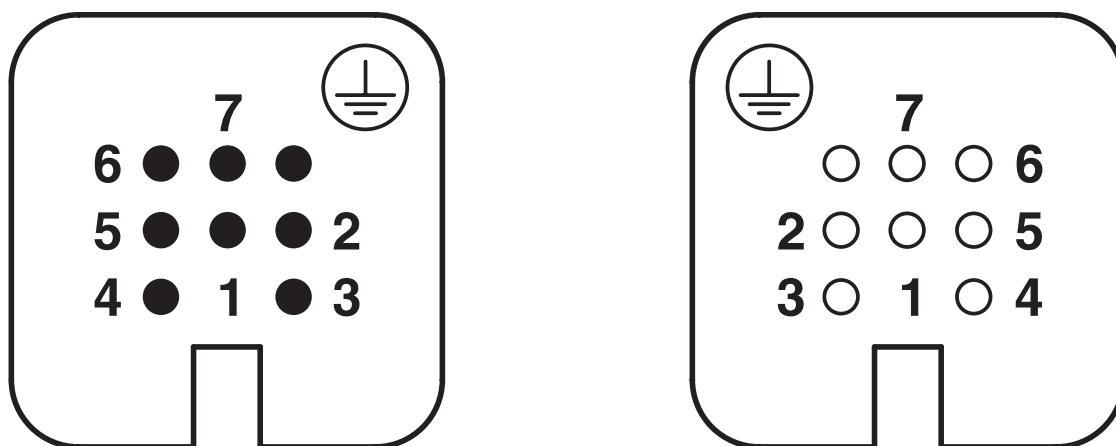
Drawings

Dimensional drawing



Male insert

Schematic diagram



Connector pin assignment connection side: Left pin; right socket

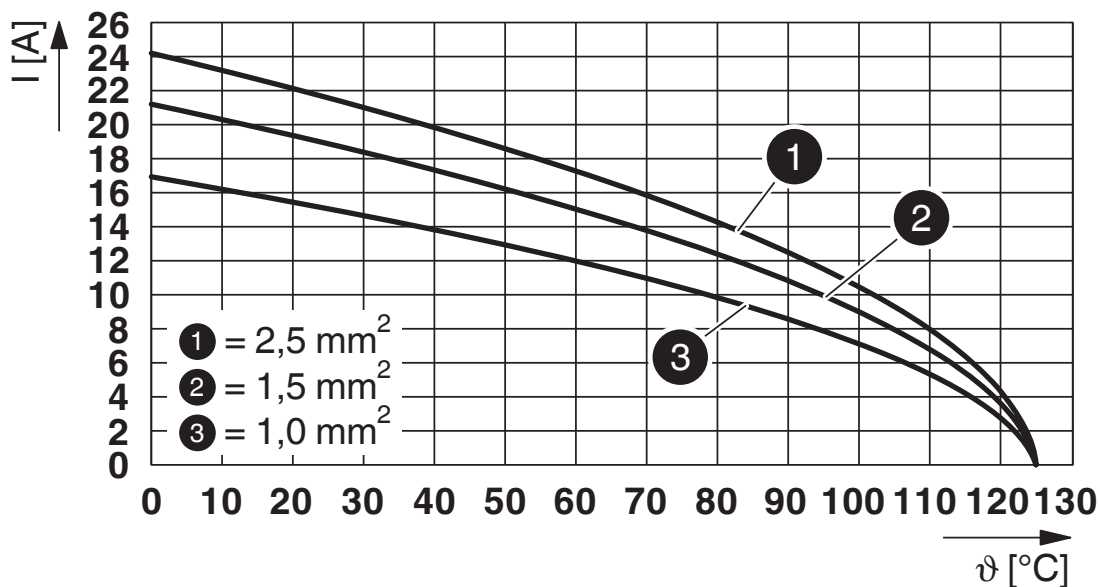
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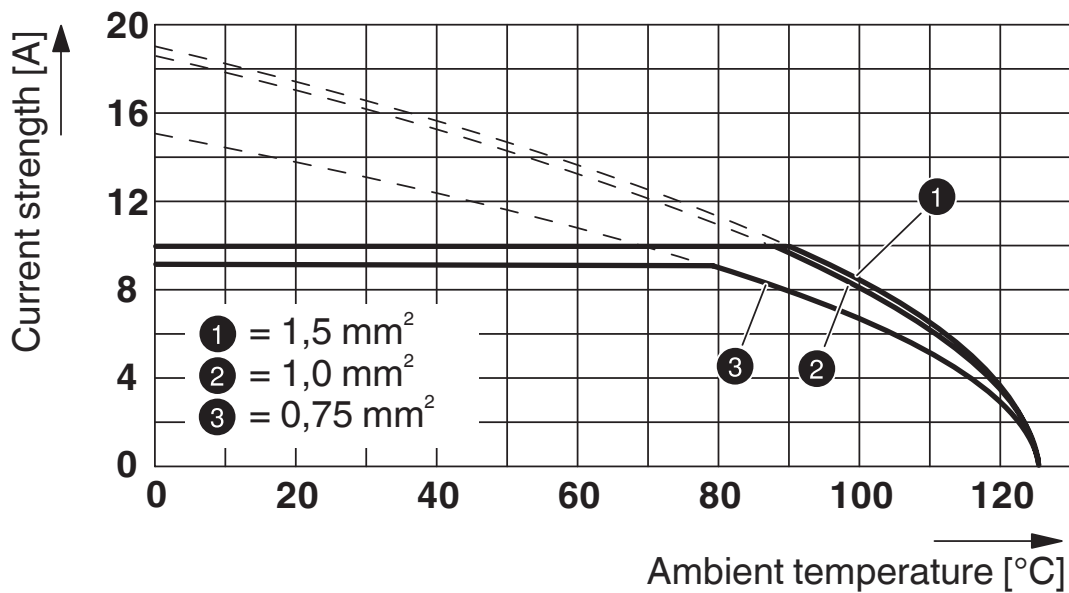
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Diagram



Derating diagram turned contacts

Diagram



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

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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 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 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 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: unlimited = EFUP-e

No hazardous substances above threshold values

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