

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



1584347

<https://www.phoenixcontact.com/us/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 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	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)	9.7 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

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.

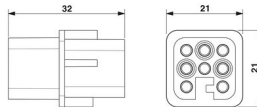
Product properties

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
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Connection data

Connection technology

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

Conductor connection

Conductor cross section	0.14 mm² ... 2.5 mm²
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 mm² ... 1.5 mm²)
	6 mm (2.5 mm²)

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
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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)
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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
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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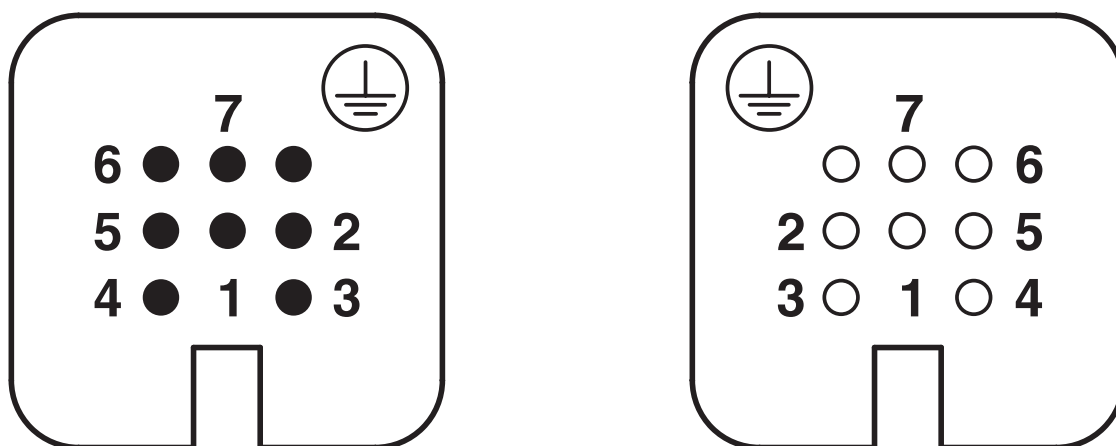
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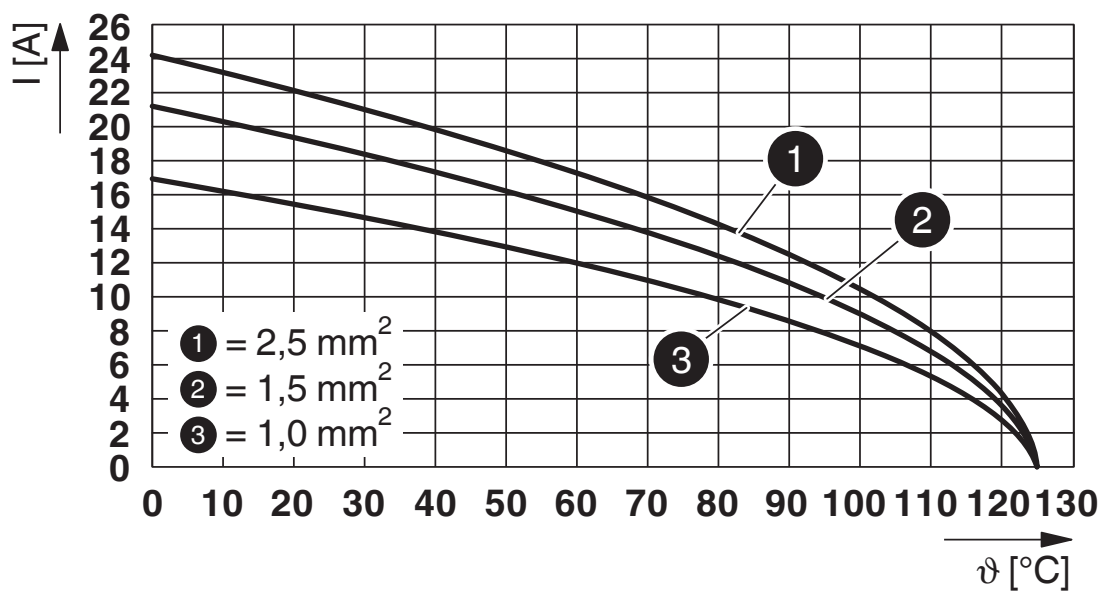
Drawings

Schematic diagram



Connector pin assignment connection side: Left pin; right socket

Diagram



Derating diagram turned contacts

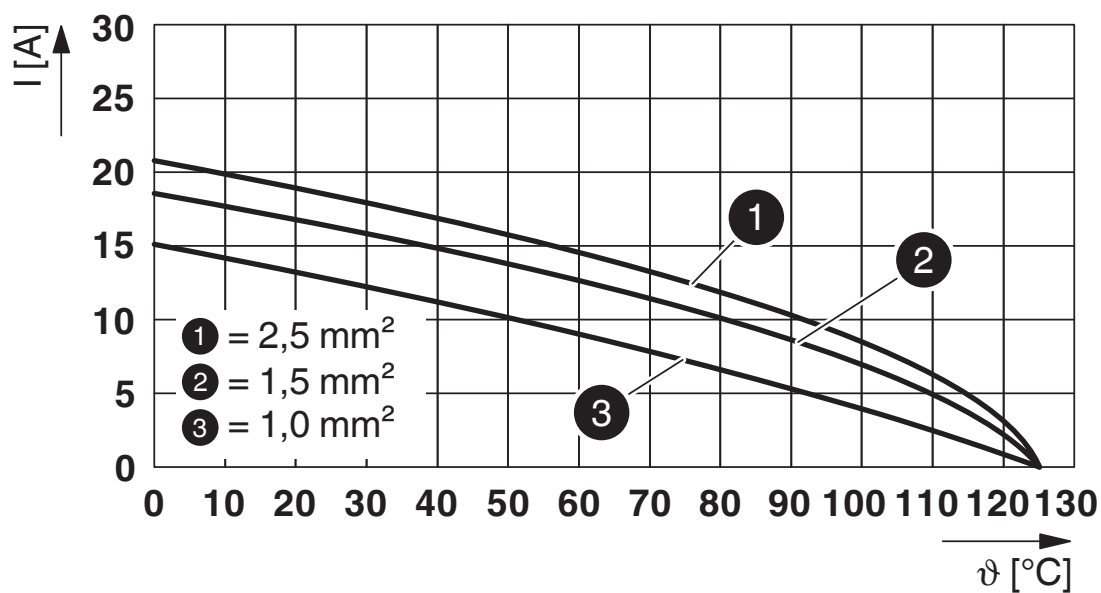
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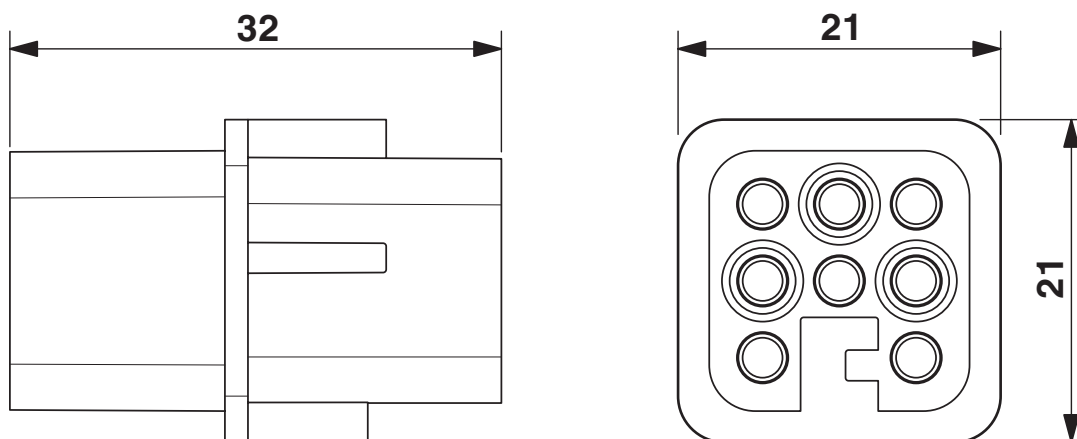


Diagram



Derating diagram rolled contacts

Dimensional drawing



Female insert

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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1584347>

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-11.0	27440205
ECLASS-12.0	27440205
ECLASS-13.0	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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Accessories

HC-CP-CK1.6-PL - Coding element

1095422

<https://www.phoenixcontact.com/us/products/1095422>

Coding element for HC-D and HC-DD contact inserts with pole loss. Installed in the socket contact chamber.



HC-D 7-DS-IP65 - Sealing screw

1686229

<https://www.phoenixcontact.com/us/products/1686229>

Sealing screw, size: Countersunk head, IP67, replacement part for D7 size HEAVYCON housing



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

1663394

<https://www.phoenixcontact.com/us/products/1663394>



Crimp contact, contact diameter: 1.6 mm, turned, Socket, contact material: Copper alloy, contact surface: silver-plated, connection cross section: 0.14 mm² ... 0.37 mm², AWG 26 ... 22

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

1663404

<https://www.phoenixcontact.com/us/products/1663404>



Crimp contact, contact diameter: 1.6 mm, turned, Socket, contact material: Copper alloy, contact surface: silver-plated, connection cross section: 0.5 mm² ... 0.5 mm², AWG 20

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

1663417

<https://www.phoenixcontact.com/us/products/1663417>



Crimp contact, contact diameter: 1.6 mm, turned, Socket, contact material: Copper alloy, contact surface: silver-plated, connection cross section: 0.75 mm² ... 0.75 mm², AWG 18

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

1663420

<https://www.phoenixcontact.com/us/products/1663420>



Crimp contact, contact diameter: 1.6 mm, turned, Socket, contact material: Copper alloy, contact surface: silver-plated, connection cross section: 1 mm² ... 1 mm², AWG 18

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

1663433

<https://www.phoenixcontact.com/us/products/1663433>



Crimp contact, contact diameter: 1.6 mm, turned, Socket, contact material: Copper alloy, contact surface: silver-plated, connection cross section: 1.5 mm² ... 1.5 mm², AWG 16

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

1663446

<https://www.phoenixcontact.com/us/products/1663446>



Crimp contact, contact diameter: 1.6 mm, turned, Socket, contact material: Copper alloy, contact surface: silver-plated, connection cross section: 2.5 mm² ... 2.5 mm², AWG 14

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CK1,6-ED-BU-POF - Female contact

1885004

<https://www.phoenixcontact.com/us/products/1885004>



POF fiber optic socket contact, turned, for contact carriers (HC-DD...I-CT.../ HC-M-12-CT-F.../ HC-M-17-CT-F...) of CK1,6-ED... contacts

CK1,6-ED-0,37F AG - Crimp contact

1266249

<https://www.phoenixcontact.com/us/products/1266249>



Crimp contact, contact diameter: 1.6 mm, turned, Socket, contact material: Copper alloy, lead-free, contact surface: silver-plated, connection cross section: 0.14 mm² ... 0.34 mm², AWG 24 ... 22

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CK1,6-ED-0,50F AG - Crimp contact

1266252

<https://www.phoenixcontact.com/us/products/1266252>



Crimp contact, contact diameter: 1.6 mm, turned, Socket, contact material: Copper alloy, lead-free, contact surface: silver-plated, connection cross section: 0.5 mm² ... 0.5 mm², AWG 20

CK1,6-ED-0,75F AG - Crimp contact

1266259

<https://www.phoenixcontact.com/us/products/1266259>



Crimp contact, contact diameter: 1.6 mm, turned, Socket, contact material: Copper alloy, lead-free, contact surface: silver-plated, connection cross section: 0.75 mm² ... 0.75 mm², AWG 18

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CK1,6-ED-1,00F AG - Crimp contact

1266296

<https://www.phoenixcontact.com/us/products/1266296>



Crimp contact, contact diameter: 1.6 mm, turned, Socket, contact material: Copper alloy, lead-free, contact surface: silver-plated, connection cross section: 1 mm² ... 1 mm², AWG 18

CK1,6-ED-1,50F AG - Crimp contact

1266263

<https://www.phoenixcontact.com/us/products/1266263>



Crimp contact, contact diameter: 1.6 mm, turned, Socket, contact material: Copper alloy, lead-free, contact surface: silver-plated, connection cross section: 1.5 mm² ... 1.5 mm², AWG 16

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CK1,6-ED-2,50F AG - Crimp contact

1266295

<https://www.phoenixcontact.com/us/products/1266295>



Crimp contact, contact diameter: 1.6 mm, turned, Socket, contact material: Copper alloy, lead-free, contact surface: silver-plated, connection cross section: 2.5 mm² ... 2.5 mm², AWG 14

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

1674969

<https://www.phoenixcontact.com/us/products/1674969>



Crimp contact, contact diameter: 1.6 mm, turned, Socket, contact material: Copper alloy, contact surface: gold-plated, connection cross section: 0.14 mm² ... 0.37 mm², AWG 24 ... 22

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

1674480

<https://www.phoenixcontact.com/us/products/1674480>



Crimp contact, contact diameter: 1.6 mm, turned, Socket, contact material: Copper alloy, contact surface: gold-plated, connection cross section: 0.5 mm² ... 0.5 mm², AWG 20

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

1672440

<https://www.phoenixcontact.com/us/products/1672440>



Crimp contact, contact diameter: 1.6 mm, turned, Socket, contact material: Copper alloy, contact surface: gold-plated, connection cross section: 0.75 mm² ... 0.75 mm², AWG 18

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

1674943

<https://www.phoenixcontact.com/us/products/1674943>



Crimp contact, contact diameter: 1.6 mm, turned, Socket, contact material: Copper alloy, contact surface: gold-plated, connection cross section: 1 mm² ... 1 mm², AWG 18

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

1674930

<https://www.phoenixcontact.com/us/products/1674930>



Crimp contact, contact diameter: 1.6 mm, turned, Socket, contact material: Copper alloy, contact surface: gold-plated, connection cross section: 1.5 mm² ... 1.5 mm², AWG 16

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

1674985

<https://www.phoenixcontact.com/us/products/1674985>



Crimp contact, contact diameter: 1.6 mm, turned, Socket, contact material: Copper alloy, contact surface: gold-plated, connection cross section: 2.5 mm² ... 2.5 mm², AWG 14

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

1004362

<https://www.phoenixcontact.com/us/products/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 mm² ... 1 mm², AWG 22 ... 17

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

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

1004366

<https://www.phoenixcontact.com/us/products/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 mm² ... 2.5 mm², AWG 16 ... 14

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

1004381

<https://www.phoenixcontact.com/us/products/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 mm² ... 1 mm², AWG 22 ... 17, Taped products

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

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

1004383

<https://www.phoenixcontact.com/us/products/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 mm² ... 2.5 mm², AWG 16 ... 14, Taped products

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

1584334

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



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

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UNIFOX MT-CK 1.6/2.5 - Assembly tool

1089092

<https://www.phoenixcontact.com/us/products/1089092>

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



UNIFOX RT-CK 1.6 - Contact removal tool

1072069

<https://www.phoenixcontact.com/us/products/1072069>

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



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