HC-D07-I-CT-M-42V-METAL - Contact insert

1425005

https://www.phoenixcontact.com/us/products/1425005

PHŒNIX CONTACT

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Contact insert, number of positions: 7+PE, size: D7, Pin, Crimp connection, 42 V, 10 A, 0.14 mm^2 ... 2.5 mm^2

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	1425005
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF61
Product key	BF7ABE
GTIN	4055626383361
Weight per piece (including packing)	8.71 g
Weight per piece (excluding packing)	8.5 g
Customs tariff number	85389099
Country of origin	CN

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Technical data

Notes

General	Connectors may be operated only when there is no load/voltage.

Mounting

Assembly note	To ensure correct use, installation in housing with IP54 protection or better is required

Product properties

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

Insulation characteristics

Overvoltage category	III
Degree of pollution	3

Dimensions
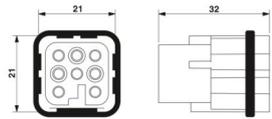
Dimensional drawing	
Height	32 mm

Mechanical characteristics

Contact diameter	1.6 mm

Connection data

Connection technology

Connection technology	Crimp connection
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)	42 V
Rated surge voltage	0.8 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 Profile gasket	NBR, conductive
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

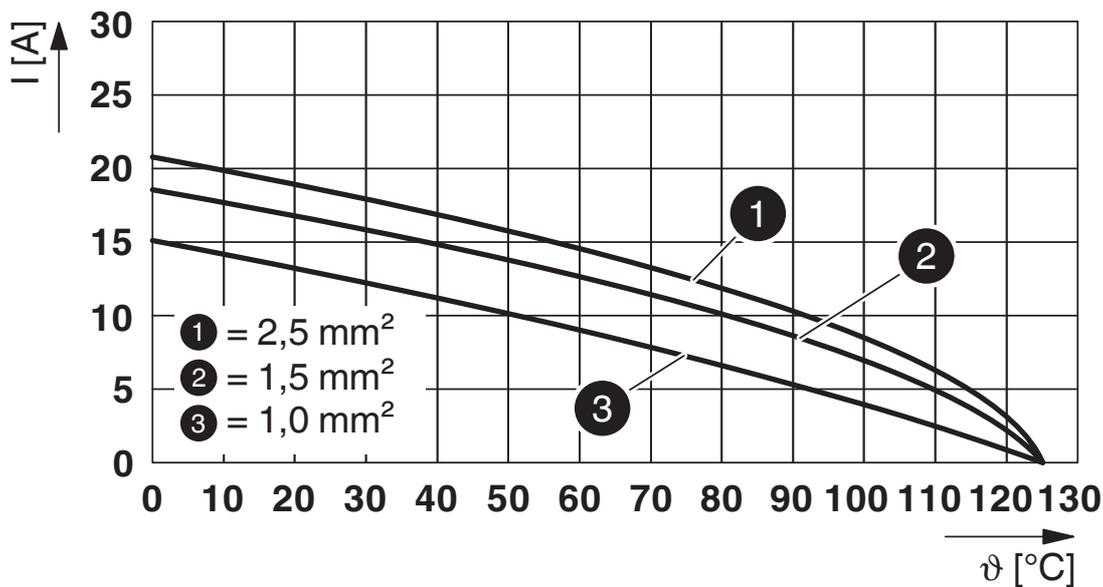|	
Constructional and testing regulations	DIN VDE 0627/86
	DIN VDE 0110/02.79
	DIN VDE 0110-1/04.97
	IEC 60664-1, DIN IEC 60512
	IEC 60352
Tests	DIN VDE 0627/86
	DIN VDE 0110/02.79
	DIN VDE 0110-1/04.97
	IEC 60664-1, DIN IEC 60512
	IEC 60352

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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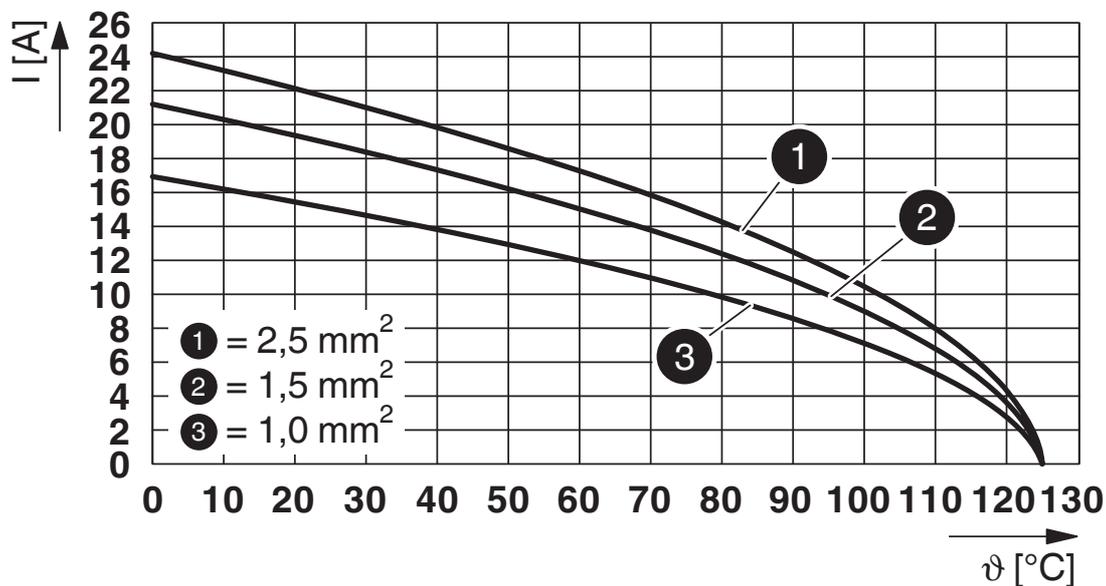## Drawings

Derating diagram rolled contacts

Derating diagram turned contacts

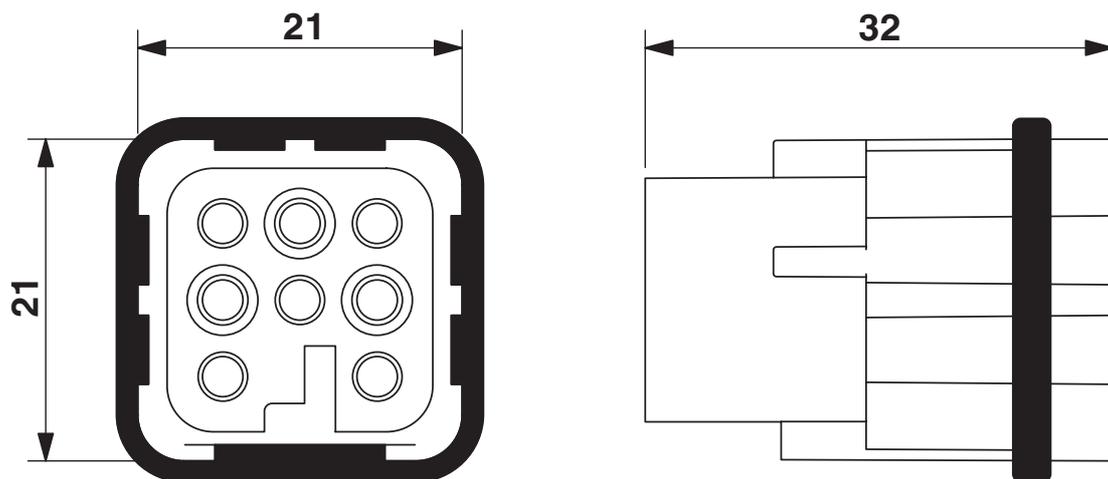# HC-D07-I-CT-M-42V-METAL - Contact insert

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Schematic diagram
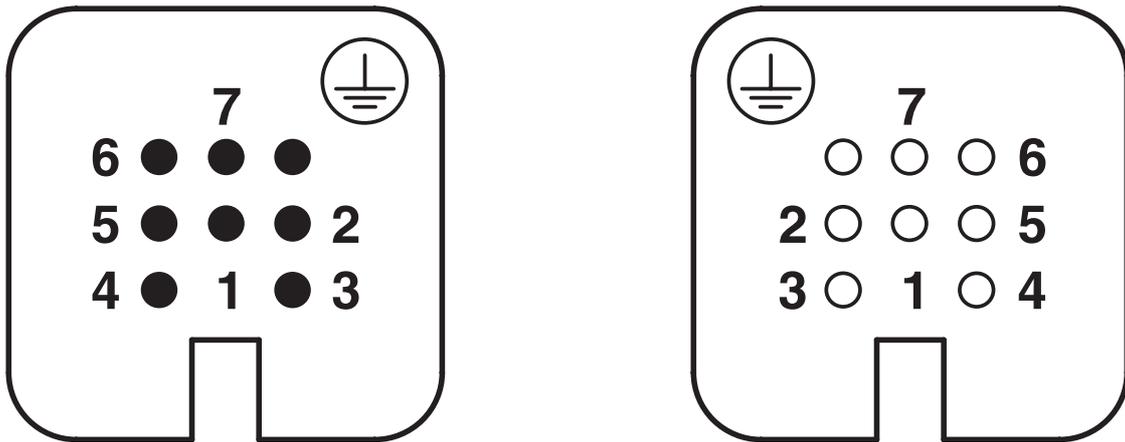
Connector pin assignment connection side: Left pin; right socket

Dimensional drawing

Male insert

Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1425005

DNV
Approval ID: TAE000037S

CSA
Approval ID: 13631

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	42 V	10 A	- 14	-

UL Recognized
Approval ID: E118976

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	42 V	10 A	-	-

UL Recognized
Approval ID: E468743

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	42 V	10 A	-	-

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Classifications

ECLASS

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

ETIM

ETIM 8.0	EC000438

UNSPSC

UNSPSC 21.0	39121500

Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions

China RoHS

Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits

EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%

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Accessories

HC-D07-SP-RBK - Profile gasket

1419622

https://www.phoenixcontact.com/us/products/1419622

Profile gasket, design: D7, for pin inserts

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-0,37ST AG - Crimp contact

1663336

https://www.phoenixcontact.com/us/products/1663336

Crimp contact, contact diameter: 1.6 mm, turned, Pin, contact material: Copper alloy, contact surface: silver-plated, connection cross section: 0.14 mm^2 ... 0.37 mm^2, AWG 26 ... 22

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

1663349

https://www.phoenixcontact.com/us/products/1663349

Crimp contact, contact diameter: 1.6 mm, turned, Pin, contact material: Copper alloy, contact surface: silver-plated, connection cross section: 0.5 mm^2 ... 0.5 mm^2, AWG 20

HC-D07-I-CT-M-42V-METAL - Contact insert

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https://www.phoenixcontact.com/us/products/1425005

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

1663352

https://www.phoenixcontact.com/us/products/1663352

Crimp contact, contact diameter: 1.6 mm, turned, Pin, contact material: Copper alloy, contact surface: silver-plated, connection cross section: 0.75 mm^2 ... 0.75 mm^2, AWG 18

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

1663365

https://www.phoenixcontact.com/us/products/1663365

Crimp contact, contact diameter: 1.6 mm, turned, Pin, contact material: Copper alloy, contact surface: silver-plated, connection cross section: 1 mm^2 ... 1 mm^2, AWG 18

HC-D07-I-CT-M-42V-METAL - Contact insert

1425005

https://www.phoenixcontact.com/us/products/1425005

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

1663378

https://www.phoenixcontact.com/us/products/1663378

Crimp contact, contact diameter: 1.6 mm, turned, Pin, contact material: Copper alloy, contact surface: silver-plated, connection cross section: 1.5 mm^2 ... 1.5 mm^2, AWG 16

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

1663381

https://www.phoenixcontact.com/us/products/1663381

Crimp contact, contact diameter: 1.6 mm, turned, Pin, contact material: Copper alloy, contact surface: silver-plated, connection cross section: 2.5 mm^2 ... 2.5 mm^2, AWG 14

HC-D07-I-CT-M-42V-METAL - Contact insert

1425005

https://www.phoenixcontact.com/us/products/1425005

CK1,6-ED-ST-POF - Male contact

1884995

https://www.phoenixcontact.com/us/products/1884995

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

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

1266193

https://www.phoenixcontact.com/us/products/1266193

Crimp contact, contact diameter: 1.6 mm, turned, Pin, contact material: Copper alloy, lead-free, contact surface: silver-plated, connection cross section: 0.14 mm^2 ... 0.34 mm^2, AWG 26 ... 22

HC-D07-I-CT-M-42V-METAL - Contact insert

1425005

https://www.phoenixcontact.com/us/products/1425005

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

1266195

https://www.phoenixcontact.com/us/products/1266195

Crimp contact, contact diameter: 1.6 mm, turned, Pin, contact material: Copper alloy, lead-free, contact surface: silver-plated, connection cross section: 0.5 mm^2 ... 0.5 mm^2, AWG 20

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

1266245

https://www.phoenixcontact.com/us/products/1266245

Crimp contact, contact diameter: 1.6 mm, turned, Pin, contact material: Copper alloy, lead-free, contact surface: silver-plated, connection cross section: 1.5 mm^2 ... 1.5 mm^2, AWG 16

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1425005

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

1266450

https://www.phoenixcontact.com/us/products/1266450

Crimp contact, contact diameter: 1.6 mm, turned, Pin, contact material: Copper alloy, lead-free, contact surface: silver-plated, connection cross section: 0.75 mm^2 ... 0.75 mm^2, AWG 18

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

1266244

https://www.phoenixcontact.com/us/products/1266244

Crimp contact, contact diameter: 1.6 mm, turned, Pin, contact material: Copper alloy, lead-free, contact surface: silver-plated, connection cross section: 1 mm^2 ... 1 mm^2, AWG 18

HC-D07-I-CT-M-42V-METAL - Contact insert

1425005

https://www.phoenixcontact.com/us/products/1425005

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

1266247

https://www.phoenixcontact.com/us/products/1266247

Crimp contact, contact diameter: 1.6 mm, turned, Pin, contact material: Copper alloy, lead-free, contact surface: silver-plated, connection cross section: 2.5 mm^2 ... 2.5 mm^2, AWG 14

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

1674901

https://www.phoenixcontact.com/us/products/1674901

Crimp contact, contact diameter: 1.6 mm, turned, Pin, contact material: Copper alloy, contact surface: gold-plated, connection cross section: 0.14 mm^2 ... 0.37 mm^2, AWG 22 ... 24

HC-D07-I-CT-M-42V-METAL - Contact insert

1425005

https://www.phoenixcontact.com/us/products/1425005

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

1672453

https://www.phoenixcontact.com/us/products/1672453

Crimp contact, contact diameter: 1.6 mm, turned, Pin, contact material: Copper alloy, contact surface: gold-plated, connection cross section: 0.5 mm^2 ... 0.5 mm^2, AWG 20

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

1674914

https://www.phoenixcontact.com/us/products/1674914

Crimp contact, contact diameter: 1.6 mm, turned, Pin, contact material: Copper alloy, contact surface: gold-plated, connection cross section: 0.75 mm^2 ... 0.75 mm^2, AWG 18

HC-D07-I-CT-M-42V-METAL - Contact insert

1425005

https://www.phoenixcontact.com/us/products/1425005

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

1674888

https://www.phoenixcontact.com/us/products/1674888

Crimp contact, contact diameter: 1.6 mm, turned, Pin, contact material: Copper alloy, contact surface: gold-plated, connection cross section: 1 mm^2 ... 1 mm^2, AWG 18

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

1674875

https://www.phoenixcontact.com/us/products/1674875

Crimp contact, contact diameter: 1.6 mm, turned, Pin, contact material: Copper alloy, contact surface: gold-plated, connection cross section: 1.5 mm^2 ... 1.5 mm^2, AWG 16

HC-D07-I-CT-M-42V-METAL - Contact insert

1425005

https://www.phoenixcontact.com/us/products/1425005

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

1674927

https://www.phoenixcontact.com/us/products/1674927

Crimp contact, contact diameter: 1.6 mm, turned, Pin, contact material: Copper alloy, contact surface: gold-plated, connection cross section: 2.5 mm^2 ... 2.5 mm^2, AWG 14

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

1004360

https://www.phoenixcontact.com/us/products/1004360

Crimp contact, contact diameter: 1.6 mm, rolled, Pin, contact material: Cu alloy, nickel-plated, contact surface: silver-plated, connection cross section: 0.34 mm^2 ... 1 mm^2, AWG 22 ... 17

HC-D07-I-CT-M-42V-METAL - Contact insert

1425005

https://www.phoenixcontact.com/us/products/1425005

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

1004365

https://www.phoenixcontact.com/us/products/1004365

Crimp contact, contact diameter: 1.6 mm, rolled, Pin, contact material: Cu alloy, nickel-plated, contact surface: silver-plated, connection cross section: 1.5 mm^2 ... 2.5 mm^2, AWG 16 ... 14

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

1004380

https://www.phoenixcontact.com/us/products/1004380

Crimp contact, contact diameter: 1.6 mm, rolled, Pin, contact material: Cu alloy, nickel-plated, contact surface: silver-plated, connection cross section: 0. 34 mm^2 ... 1 mm^2, AWG 22 ... 17, Taped products

HC-D07-I-CT-M-42V-METAL - Contact insert

1425005

https://www.phoenixcontact.com/us/products/1425005

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

1004382

https://www.phoenixcontact.com/us/products/1004382

Crimp contact, contact diameter: 1.6 mm, rolled, Pin, contact material: Cu alloy, nickel-plated, contact surface: silver-plated, connection cross section: 1.5 mm^2 ... 2.5 mm^2, AWG 16 ... 14, Taped products

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

1425006

https://www.phoenixcontact.com/us/products/1425006

Contact insert, number of positions: 7+PE, size: D7, Socket, Crimp connection, 42 V, 10 A, 0.14 mm^2 ... 2.5 mm^2

HC-D07-I-CT-M-42V-METAL - Contact insert

1425005

https://www.phoenixcontact.com/us/products/1425005

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