

# HC-D 8-I-CT-F - Contact insert



1584363

<https://www.phoenixcontact.com/in/products/1584363>

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Contact insert, number of positions: 8, size: D7, number of connections per position: 1, Socket, Crimp connection, 42 V, 10 A, 0.14 mm<sup>2</sup> ... 2.5 mm<sup>2</sup>

## 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.
- Shock and vibration-resistant in accordance with DIN EN 61373

## Commercial data

Item number	1584363
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF7
Product key	BF7ABJ
Catalog page	Page 507 (C-2-2019)
GTIN	4046356142625
Weight per piece (including packing)	9.4 g
Weight per piece (excluding packing)	9 g
Customs tariff number	85389099
Country of origin	CN

# HC-D 8-I-CT-F - Contact insert



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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	Product already includes one IP65 sealing screw

### Mounting

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

Product type	Contact insert with a fixed no. of positions
Series	HC-D
Type	D7
Number of positions	8
Note number of positions	8
Connection profile	8
Contact numbering	1 - 8
Number of connections per position	1
Contact material type	turned rolled

### Data management status

Article revision	06
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### 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

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## Connection technology

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)	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
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## Material specifications

Flammability rating according to UL 94	V0
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

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	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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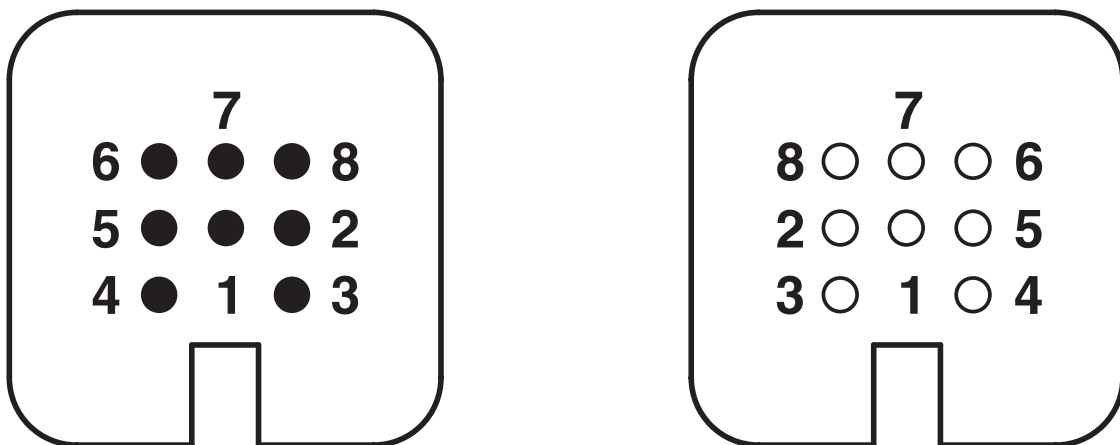
# HC-D 8-I-CT-F - Contact insert

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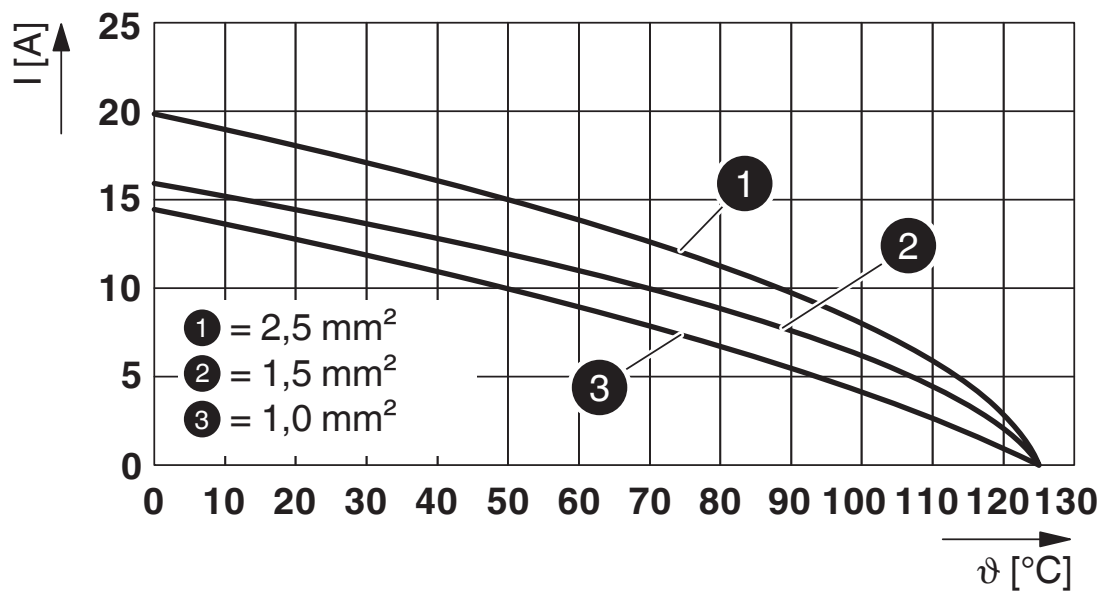
## Drawings

Schematic diagram



Connector pin assignment connection side: Left pin; right socket

Diagram



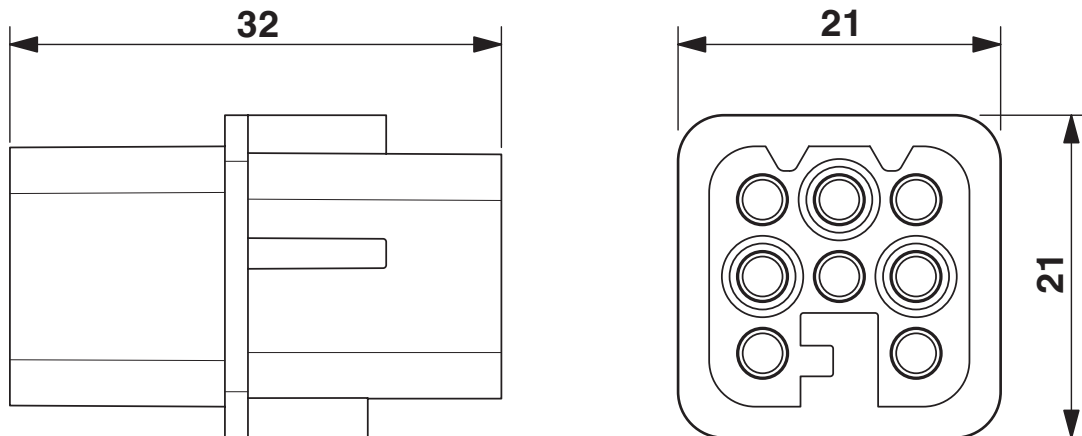
Derating diagram rolled contacts

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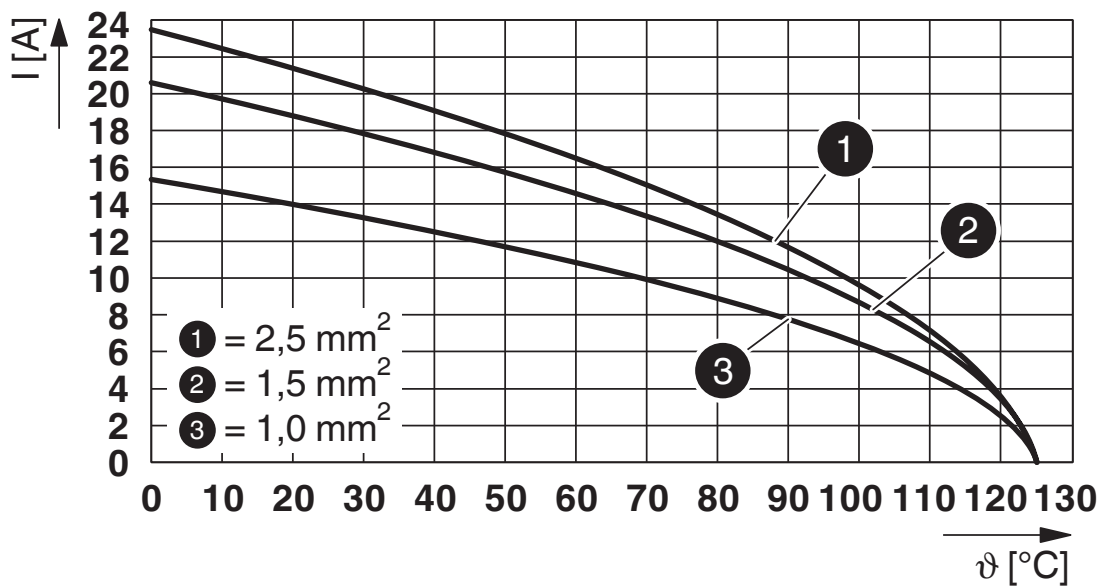
<https://www.phoenixcontact.com/in/products/1584363>

Dimensional drawing



Female insert

Diagram



Derating diagram turned contacts

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/in/products/1584363>

### 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: E118976

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



### 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	-

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## Classifications

### ECLASS

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

### ETIM

ETIM 9.0	EC000438
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### UNSPSC

UNSPSC 21.0	39121500
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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
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### 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-CP-CK1.6-PL - Coding element

1095422

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

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



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### HC-D 7-DS-IP65 - Sealing screw

1686229

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



Crimp contact, contact diameter: 1.6 mm, turned, Socket, contact material: Copper alloy, contact surface: silver-plated, connection cross section: 0.14 mm<sup>2</sup> ... 0.37 mm<sup>2</sup>, AWG 26 ... 22

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

1663404

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



Crimp contact, contact diameter: 1.6 mm, turned, Socket, contact material: Copper alloy, contact surface: silver-plated, connection cross section: 0.5 mm<sup>2</sup> ... 0.5 mm<sup>2</sup>, AWG 20

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<https://www.phoenixcontact.com/in/products/1584363>



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

1663417

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



Crimp contact, contact diameter: 1.6 mm, turned, Socket, contact material: Copper alloy, contact surface: silver-plated, connection cross section: 0.75 mm<sup>2</sup> ... 0.75 mm<sup>2</sup>, AWG 18

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

1663420

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



Crimp contact, contact diameter: 1.6 mm, turned, Socket, contact material: Copper alloy, contact surface: silver-plated, connection cross section: 1 mm<sup>2</sup> ... 1 mm<sup>2</sup>, AWG 18

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

1663433

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



Crimp contact, contact diameter: 1.6 mm, turned, Socket, contact material: Copper alloy, contact surface: silver-plated, connection cross section: 1.5 mm<sup>2</sup> ... 1.5 mm<sup>2</sup>, AWG 16

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

1663446

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



Crimp contact, contact diameter: 1.6 mm, turned, Socket, contact material: Copper alloy, contact surface: silver-plated, connection cross section: 2.5 mm<sup>2</sup> ... 2.5 mm<sup>2</sup>, AWG 14

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

1885004

<https://www.phoenixcontact.com/in/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

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

1266249

<https://www.phoenixcontact.com/in/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 mm<sup>2</sup> ... 0.34 mm<sup>2</sup>, AWG 24 ... 22

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

1266252

<https://www.phoenixcontact.com/in/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 mm<sup>2</sup> ... 0.5 mm<sup>2</sup>, AWG 20

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

1266259

<https://www.phoenixcontact.com/in/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 mm<sup>2</sup> ... 0.75 mm<sup>2</sup>, AWG 18

# HC-D 8-I-CT-F - Contact insert

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<https://www.phoenixcontact.com/in/products/1584363>



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

1266296

<https://www.phoenixcontact.com/in/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 mm<sup>2</sup> ... 1 mm<sup>2</sup>, AWG 18

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

1266263

<https://www.phoenixcontact.com/in/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 mm<sup>2</sup> ... 1.5 mm<sup>2</sup>, AWG 16



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<https://www.phoenixcontact.com/in/products/1584363>



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

1266295

<https://www.phoenixcontact.com/in/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 mm<sup>2</sup> ... 2.5 mm<sup>2</sup>, AWG 14

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

1674969

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



Crimp contact, contact diameter: 1.6 mm, turned, Socket, contact material: Copper alloy, contact surface: gold-plated, connection cross section: 0.14 mm<sup>2</sup> ... 0.37 mm<sup>2</sup>, AWG 26 ... 22

# HC-D 8-I-CT-F - Contact insert

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<https://www.phoenixcontact.com/in/products/1584363>



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

1674480

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



Crimp contact, contact diameter: 1.6 mm, turned, Socket, contact material: Copper alloy, contact surface: gold-plated, connection cross section: 0.5 mm<sup>2</sup> ... 0.5 mm<sup>2</sup>, AWG 20

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

1672440

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



Crimp contact, contact diameter: 1.6 mm, turned, Socket, contact material: Copper alloy, contact surface: gold-plated, connection cross section: 0.75 mm<sup>2</sup> ... 0.75 mm<sup>2</sup>, AWG 18

## HC-D 8-I-CT-F - Contact insert

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

1674943

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



Crimp contact, contact diameter: 1.6 mm, turned, Socket, contact material: Copper alloy, contact surface: gold-plated, connection cross section: 1 mm<sup>2</sup> ... 1 mm<sup>2</sup>, AWG 18

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

1674930

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



Crimp contact, contact diameter: 1.6 mm, turned, Socket, contact material: Copper alloy, contact surface: gold-plated, connection cross section: 1.5 mm<sup>2</sup> ... 1.5 mm<sup>2</sup>, AWG 16

# HC-D 8-I-CT-F - Contact insert

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

1674985

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



Crimp contact, contact diameter: 1.6 mm, turned, Socket, contact material: Copper alloy, contact surface: gold-plated, connection cross section: 2.5 mm<sup>2</sup> ... 2.5 mm<sup>2</sup>, AWG 14

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

1004360

<https://www.phoenixcontact.com/in/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<sup>2</sup> ... 1 mm<sup>2</sup>, AWG 22 ... 17

# HC-D 8-I-CT-F - Contact insert

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

1004365

<https://www.phoenixcontact.com/in/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<sup>2</sup> ... 2.5 mm<sup>2</sup>, AWG 16 ... 14

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

1004380

<https://www.phoenixcontact.com/in/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<sup>2</sup> ... 1 mm<sup>2</sup>, AWG 22 ... 17, Taped products

# HC-D 8-I-CT-F - Contact insert

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

1004382

<https://www.phoenixcontact.com/in/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<sup>2</sup> ... 2.5 mm<sup>2</sup>, AWG 16 ... 14, Taped products

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## CK1,6-ED-ST-POF - Pin contact

1884995

<https://www.phoenixcontact.com/in/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

## HC-D 8-I-CT-F - Contact insert

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## HC-D 8-I-CT-M - Contact insert

1584350

<https://www.phoenixcontact.com/in/products/1584350>



Contact insert, number of positions: 8, size: D7, number of connections per position: 1, Pin, Crimp connection, 42 V, 10 A, 0.14 mm<sup>2</sup> ... 2.5 mm<sup>2</sup>

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## UNIFOX MT-CK 1.6/2.5 - Assembly tool

1089092

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



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

# HC-D 8-I-CT-F - Contact insert

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<https://www.phoenixcontact.com/in/products/1584363>



## UNIFOX RT-CK 1.6 - Contact removal tool

1072069

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

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



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PHOENIX CONTACT (I) Pvt. Ltd.

A-58/2, Okhla Industrial Area, Phase - II, New Delhi-110 020

+91.1275.71420

[info@phoenixcontact.co.in](mailto:info@phoenixcontact.co.in)