HC-DD72-I-CT-F - Contact insert

1584091

https://www.phoenixcontact.com/us/products/1584091

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HEAVYCON female insert, DD72 series, 72-pos., crimp connection

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	1584091
Packing unit	1 pc
Minimum order quantity	1 pc
Sales Key	BF61
Product Key	BF7ABF
Catalog Page	Page 539 (C-2-2019)
GTIN	4046356133401
Weight per Piece (including packing)	61.3 g
Weight per Piece (excluding packing)	60.4 g
Customs tariff number	85389099
Country of origin	CN

Technical Data

Notes

General	For HEAVYCON ADVANCE and HEAVYCON housing of type B16, crimp contacts: CK 1,6-ED... (not included in scope of supply)
General	Connectors may be operated only when there is no load/voltage.
General	It is imperative that guide pins (HC-CST) and sockets (HC-CBU) are used to prevent tip collision due to misalignment.

Mounting

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

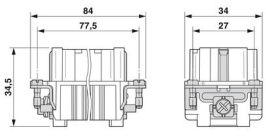
Product properties

Type	B16
	B32
Product type	Contact insert with a fixed no. of positions
Number of positions	72
Connection profile	72+PE
Contact numbering	1 - 72
Application	Signal
Number of connections per position	1
Contact type	turned
	rolled
Series	HC-DD

Insulation characteristics

Overvoltage category	III
Degree of pollution	3

Dimensions

Dimensional drawing	
Width	34 mm
Height	34.5 mm
Length	84 mm
Drill hole distance, horizontal	77.5 mm
Drill hole distance, vertical	27 mm

Mechanical characteristics

Minimum housing height	72 mm

Contact diameter	1.6 mm

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

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)

Standards and regulations

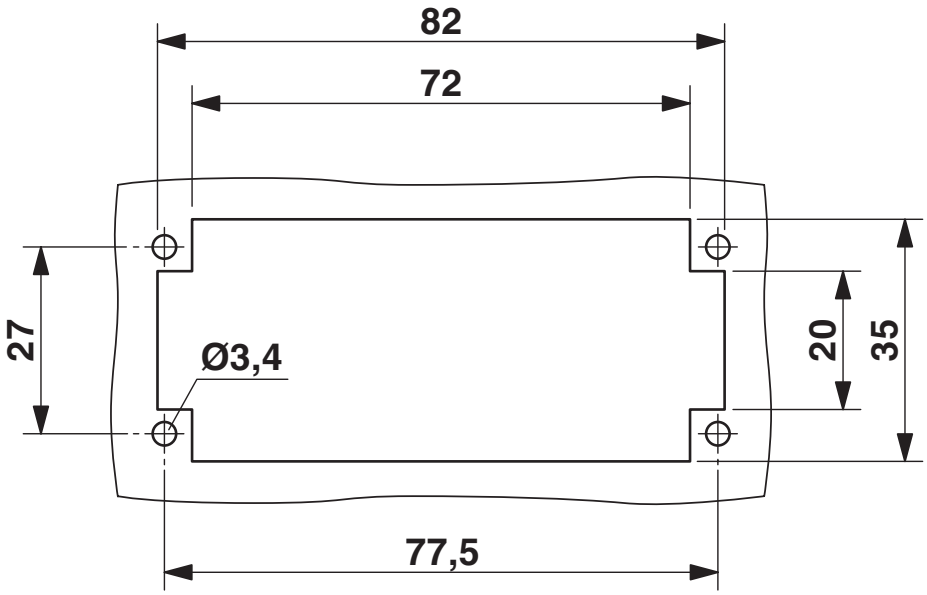
Constructional and testing regulations	DIN VDE 0627/86
	DIN VDE 0110/02.79
	DIN VDE 0110-1/04.97
	IEC 60664-1, DIN IEC 60512
	IEC 60352
Tests	DIN VDE 0627/86
	DIN VDE 0110/02.79
	DIN VDE 0110-1/04.97
	IEC 60664-1, DIN IEC 60512
	IEC 60352

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)

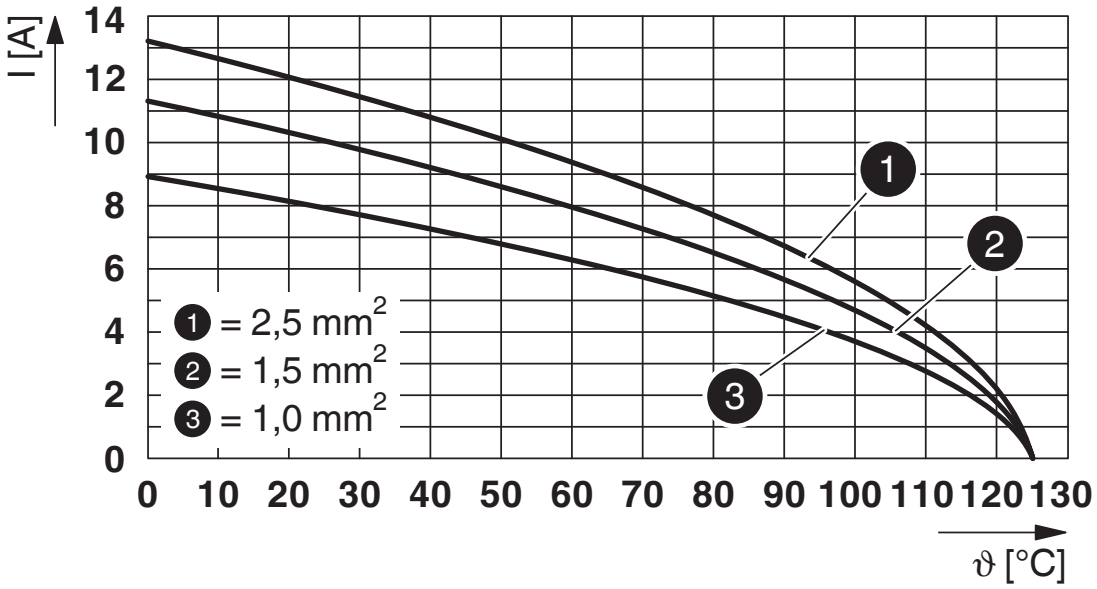
Drawings

Dimensional drawing



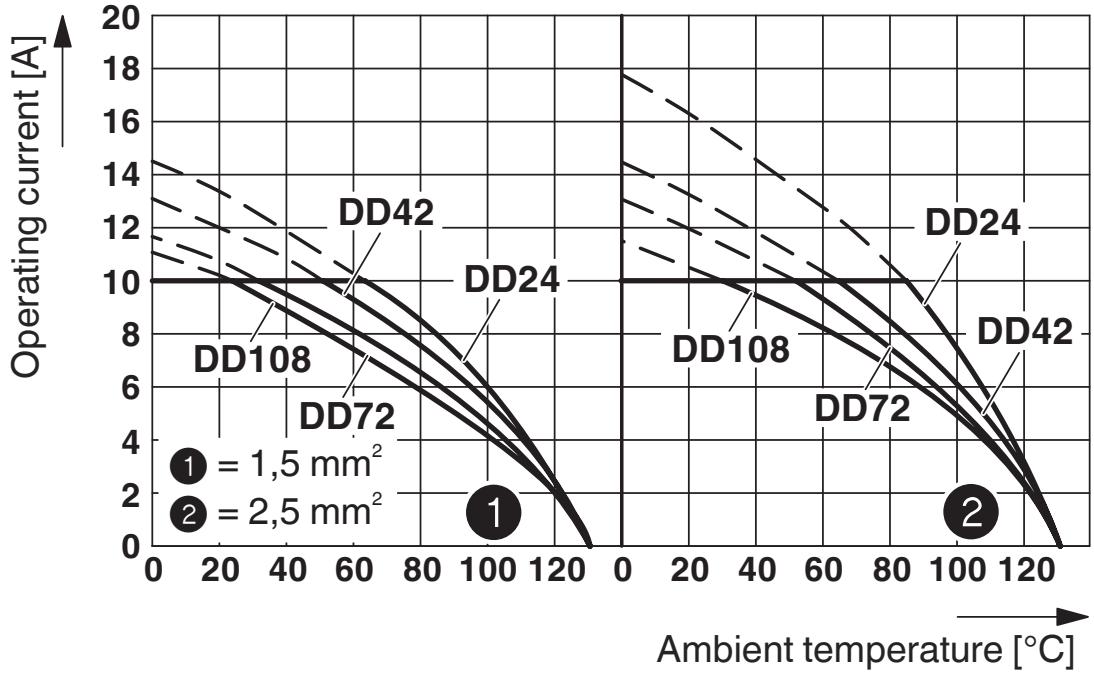
Mounting cutout when used without housing

Diagram



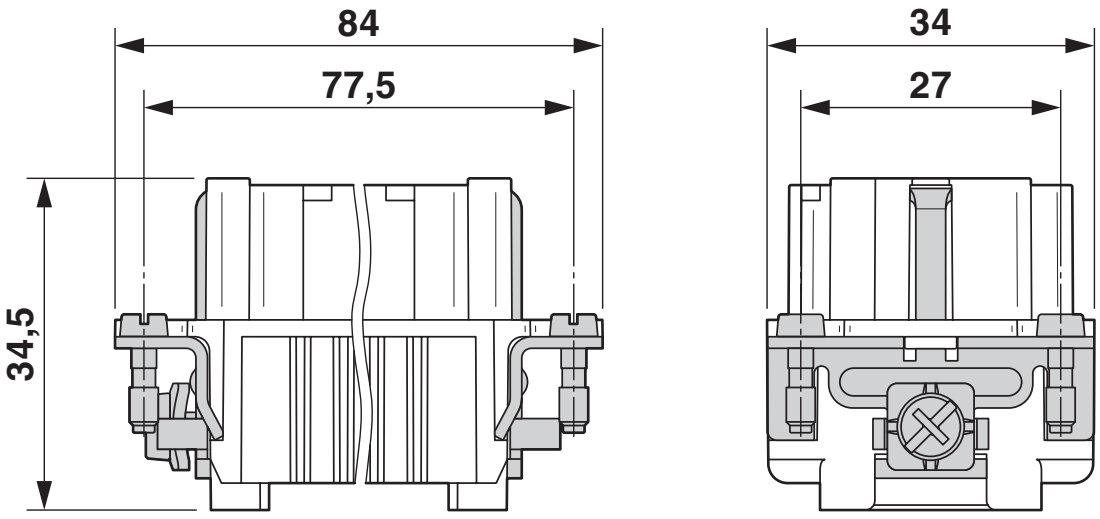
Derating diagram turned contacts

Diagram



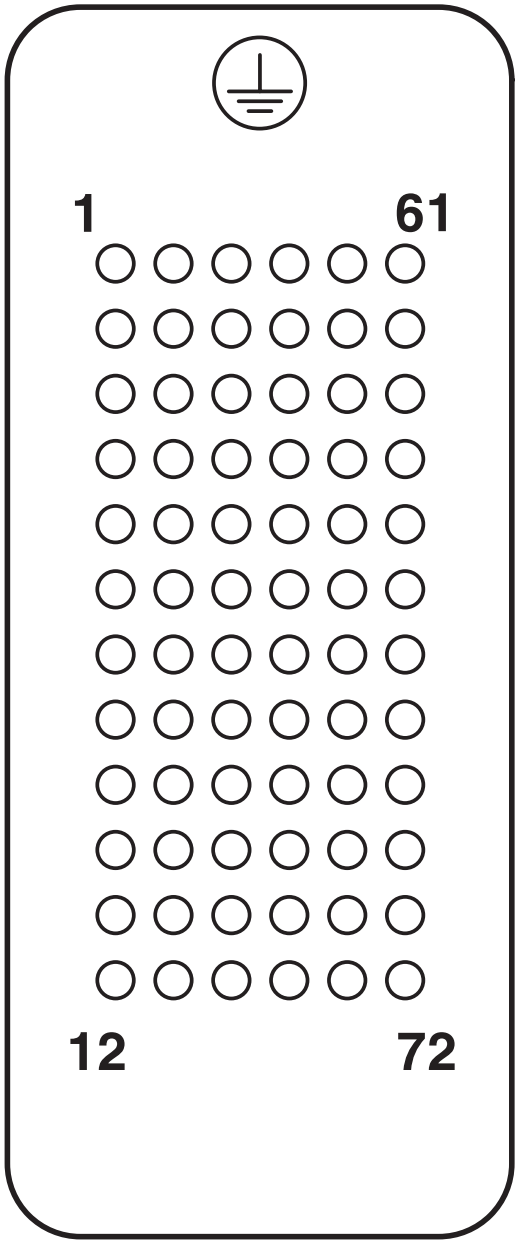
Derating diagram

Dimensional drawing



Female insert

Schematic diagram



Connector pin assignment, connection side

Approvals

CSA
Approval ID: 013631_6233_01

	Nominal Voltage U_N	Nominal Current I_N	Cross Section AWG	Cross Section mm^2
	250 V	7 A	26 - 14	-

cUL Recognized
Approval ID: FILE E 118976

	Nominal Voltage U_N	Nominal Current I_N	Cross Section AWG	Cross Section mm^2
	250 V	7 A	- 14	-

UL Recognized
Approval ID: FILE E 118976

	Nominal Voltage U_N	Nominal Current I_N	Cross Section AWG	Cross Section mm^2
	250 V	10 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
	250 V	7 A	- 14	-

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

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

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

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-CST - Coding element

1676857

https://www.phoenixcontact.com/us/products/1676857



Coding peg for coding up to 16 connectors

HC-CBU - Coding element

1676860

https://www.phoenixcontact.com/us/products/1676860



Coding socket for coding up to 16 connectors

HC-B-PE-PT - Adapter

1054672

https://www.phoenixcontact.com/us/products/1054672

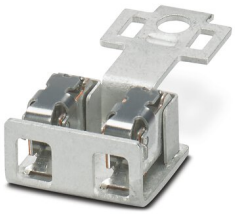


PE adapter with PT connection, for 1 PE connection, for HC-B / HC-BB / HC-DD / HC-D40 / HC-D64 contact inserts

HC-B-2PE-PT - PE multiplier

1054675

https://www.phoenixcontact.com/us/products/1054675



PE adapter with PT connection, for 2 PE connections, for HC-B / HC-BB / HC-DD / HC-D40 / HC-D64 contact inserts

HC-B-3PE - PE multiplier

1644326

https://www.phoenixcontact.com/us/products/1644326



PE multiplier, for 3 PE connections, for HC-B / HC-BB / HC-DD / HC-D40 / HC-D64 contact inserts

HC-B-PES - Screw

1604997

https://www.phoenixcontact.com/us/products/1604997



PE screw, for contact inserts HC-B / HC-BB / HC-DD / HC-D40 / HC-D64

HC-DD72-FP-F - Front plate

1201498

https://www.phoenixcontact.com/us/products/1201498



Guide element/front plate for the easy and secure connection of HC-DD series high-position connectors. Snap onto the contact insert. During connection, the pin contact is guided into place first, preventing contact with the socket contact.

HC-B-ZG - Strain relief clamp

1685327

https://www.phoenixcontact.com/us/products/1685327



Strain relief clamps contact inserts of series: B-, BB-, D 40, D 64, DD and HV, straight cable exit

HC-B-ZS - Strain relief clamp

1685330

https://www.phoenixcontact.com/us/products/1685330



Strain relief clamps contact inserts of series: B-, BB-, D 40, D 64, DD and HV, lateral cable exit

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

HC-CIF-B16-HFWL-PL - DIN rail mounting frame

1424336

https://www.phoenixcontact.com/us/products/1424336



DIN rail mounting frame, design: B16, for contact inserts, Top frame

HC-B 16-ANDOCK - Docking frames

1586138

https://www.phoenixcontact.com/us/products/1586138



Docking frame for racks, for contact inserts of B16 type, with four M5 flat headed screws, rack balance x/y axis ± 1.5 mm

HC-CIF-B06-24-BFAFL-PL - DIN rail mounting frame

1424338

https://www.phoenixcontact.com/us/products/1424338



DIN rail mounting frame, design: B6 - B24, for contact inserts, Base frame

HC-B24/16-ADP-SS - Adapter plate

1034216

https://www.phoenixcontact.com/us/products/1034216

Adapter plate, design: B24 to B16



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 mm^2 ... 0.37 mm^2, 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 mm^2 ... 0.5 mm^2, AWG 20

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 mm^2 ... 0.75 mm^2, 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 mm^2 ... 1 mm^2, AWG 18

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 mm^2 ... 1.5 mm^2, 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 mm^2 ... 2.5 mm^2, AWG 14

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 mm^2 ... 0.34 mm^2, AWG 24 ... 22

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 mm^2 ... 0.5 mm^2, 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 mm^2 ... 0.75 mm^2, AWG 18

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 mm^2 ... 1 mm^2, 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 mm^2 ... 1.5 mm^2, AWG 16

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 mm^2 ... 2.5 mm^2, 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 mm^2 ... 0.37 mm^2, AWG 24 ... 22

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 mm^2 ... 0.5 mm^2, 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 mm^2 ... 0.75 mm^2, AWG 18

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 mm^2 ... 1 mm^2, 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 mm^2 ... 1.5 mm^2, AWG 16

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 mm^2 ... 2.5 mm^2, 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 mm^2 ... 1 mm^2, AWG 22 ... 17

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 mm^2 ... 2.5 mm^2, 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 mm^2 ... 1 mm^2, AWG 22 ... 17, Taped products

HC-DD72-I-CT-F - Contact insert

1584091

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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 mm^2 ... 2.5 mm^2, AWG 16 ... 14, Taped products

HC-DD72-I-CT-M - Contact insert

1584075

https://www.phoenixcontact.com/us/products/1584075



HEAVYCON male insert, DD72 series, 72-pos., crimp connection

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