HC-D 64-I-CT-M - Contact insert

1584431

https://www.phoenixcontact.com/us/products/1584431

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Contact insert, number of positions: 64+PE, size: B24, number of connections per position: 1, Pin, Crimp connection, 250 V, 10 A, 0.14 mm^2 ... 2.5 mm^2, application: Signal

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.
- For fast coding with plastic profile (Order No. 1410916, type CP-HC-S)
- Shock and vibration-resistant in accordance with DIN EN 61373

Commercial data

Item number	1584431
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF61
Product key	BF7ABE
Catalog page	Page 535 (C-2-2019)
GTIN	4046356142694
Weight per piece (including packing)	61.5 g
Weight per piece (excluding packing)	61.2 g
Customs tariff number	85389099
Country of origin	CN

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Technical data

Notes

General	For HC-D64 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	It is imperative that guide pins (HC-CST) and sockets (HC-CBU) are used to prevent tip collision due to misalignment.
General	This product replaces 1679498 HC-D 64-ESTC-R

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
Application	Signal
Type	B24
	B48
Number of positions	64
Note number of positions	64+PE
Connection profile	64+PE
Number of connections per position	1
Contact material type	turned
	rolled

Data management status

Article revision	12

Insulation characteristics

Overvoltage category	III
Degree of pollution	3

Dimensions

Dimensional drawing	
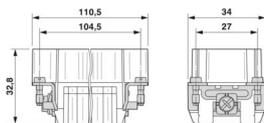
Width	34 mm
Height	32.8 mm
Length	110.5 mm
Drill hole distance, horizontal	104.5 mm

Mechanical characteristics

Contact diameter	1.6 mm

Connection data

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 mm² ... 2.5 mm²
Connection cross section AWG	26 ... 14
Tightening torque	0.8 Nm ... 1.2 Nm (PE connection)
	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

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)

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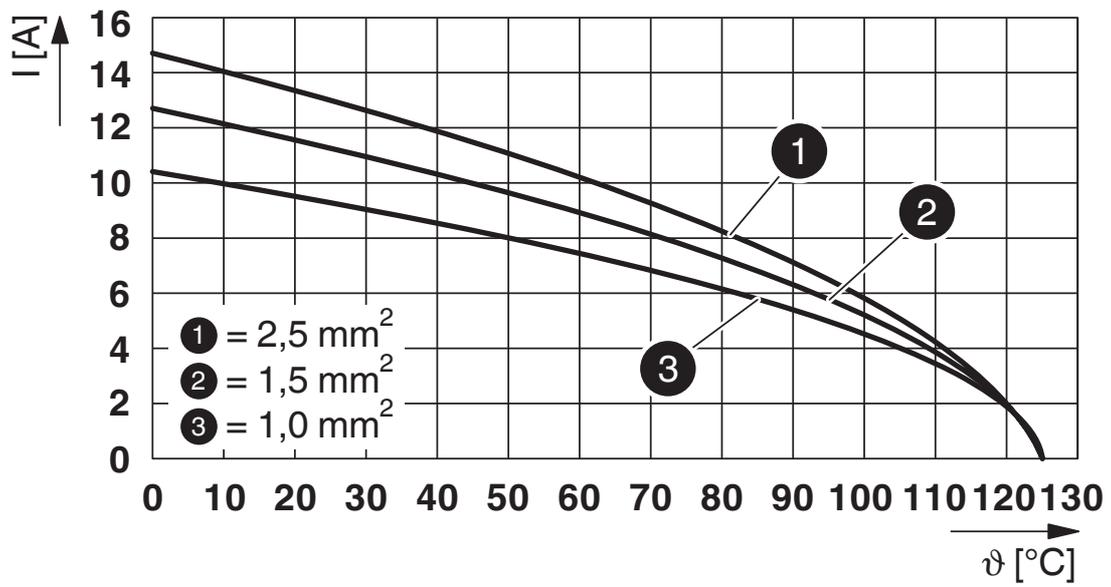
Drawings

Diagram

Derating diagram turned contacts

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Schematic diagram

	D	C	B	A	
1	●	●	●	●	1
2	●	●	●	●	2
3	●	●	●	●	3
4	●	●	●	●	4
5	●	●	●	●	5
6	●	●	●	●	6
7	●	●	●	●	7
8	●	●	●	●	8
9	●	●	●	●	9
10	●	●	●	●	10
11	●	●	●	●	11
12	●	●	●	●	12
13	●	●	●	●	13
14	●	●	●	●	14
15	●	●	●	●	15
16	●	●	●	●	16

	A	B	C	D	
1	○	○	○	○	1
2	○	○	○	○	2
3	○	○	○	○	3
4	○	○	○	○	4
5	○	○	○	○	5
6	○	○	○	○	6
7	○	○	○	○	7
8	○	○	○	○	8
9	○	○	○	○	9
10	○	○	○	○	10
11	○	○	○	○	11
12	○	○	○	○	12
13	○	○	○	○	13
14	○	○	○	○	14
15	○	○	○	○	15
16	○	○	○	○	16
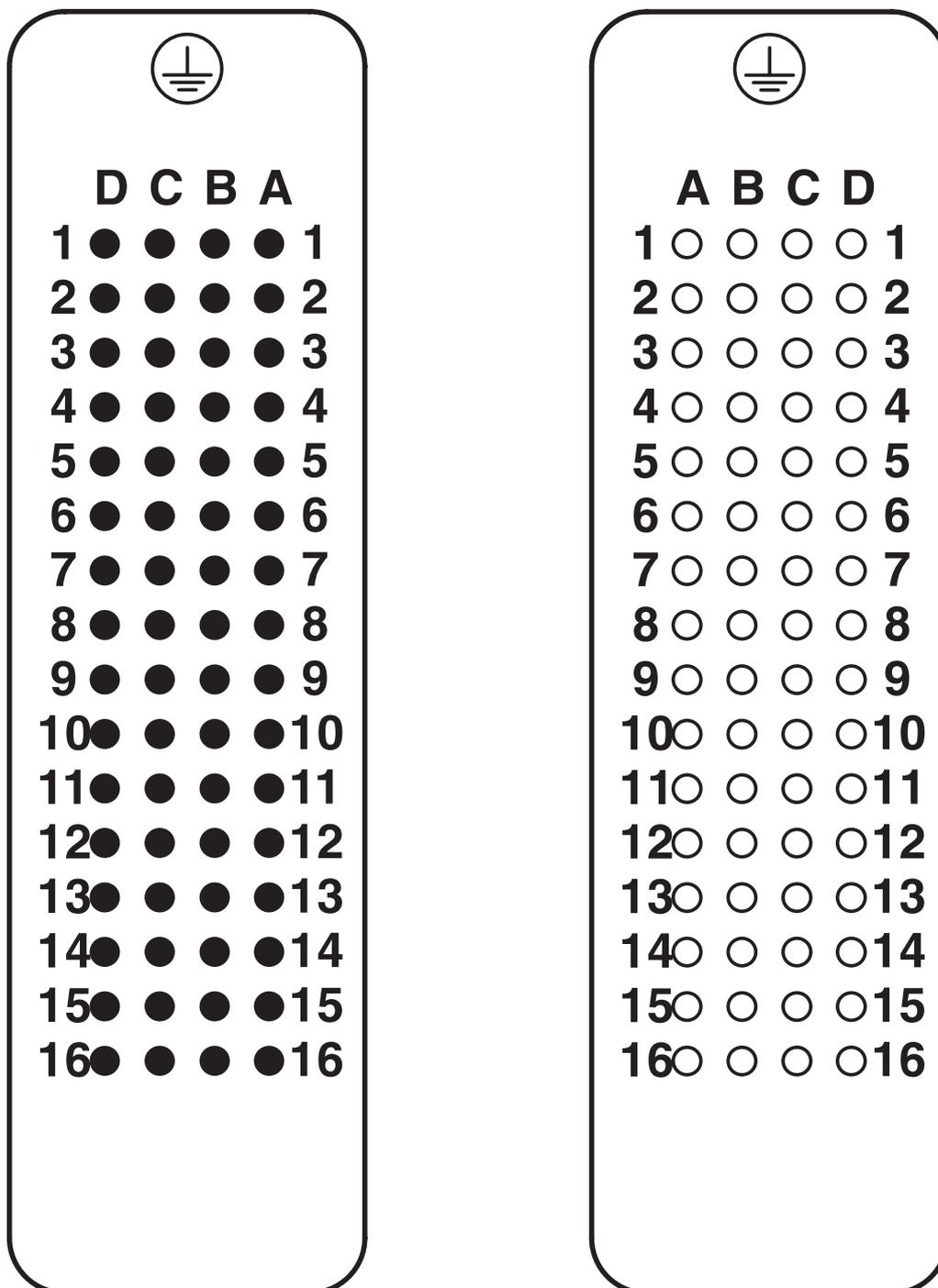
Connector pin assignment connection side: Left pin; right socket

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Dimensional drawing

110,5

104,5

32,8
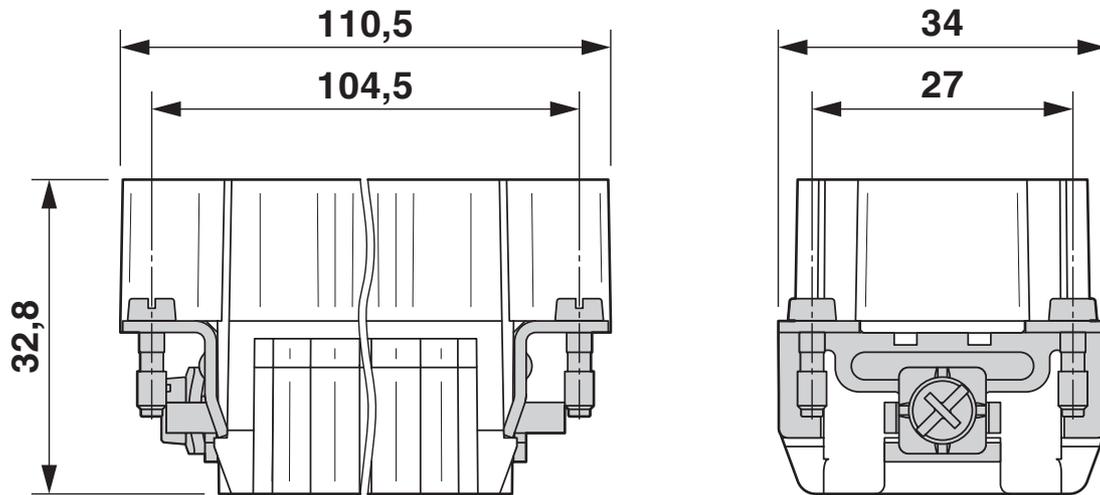
Male insert

Dimensional drawing

108

98

34

27

27

Ø3,4

20

35

104
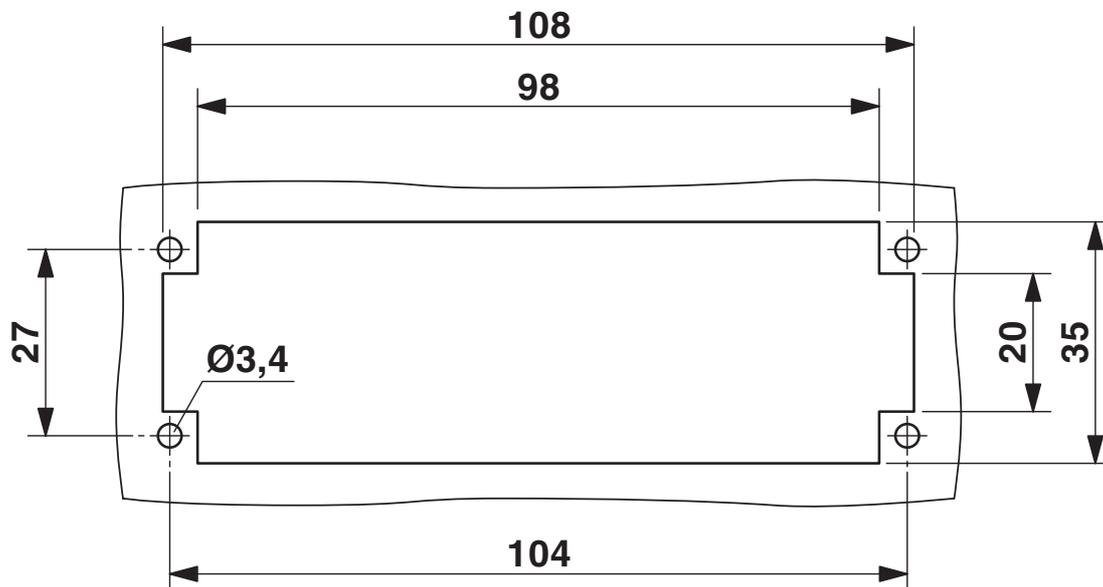
Mounting cutout when used without housing

Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1584431

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	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
600 V	10 A	-	-

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

UL Recognized			
Approval ID: E468743			
Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
600 V	10 A	-	-

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Classifications

ECLASS

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

ETIM

ETIM 9.0	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-CB - Coding bolt

1772722

https://www.phoenixcontact.com/us/products/1772722

Coding pin, prevents mismating of up to six connectors with an identical number of positions

HC-CST - Coding element

1676857

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

Coding peg for coding up to 16 connectors

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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

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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-D 64-I-CT-M - Contact insert

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https://www.phoenixcontact.com/us/products/1584431

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-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-D 64-I-CT-M - Contact insert

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https://www.phoenixcontact.com/us/products/1584431

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

HC-CIF-B24-HFWL-PL - DIN rail mounting frame

1424337

https://www.phoenixcontact.com/us/products/1424337

DIN rail mounting frame, design: B24, for contact inserts, Top frame

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HC-B 24-ANDOCK - Docking frame

1586141

https://www.phoenixcontact.com/us/products/1586141

Docking frame for racks, for contact inserts of B24 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-D 64-I-CT-M - Contact insert

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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-D 64-I-CT-M - Contact insert

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https://www.phoenixcontact.com/us/products/1584431

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-D 64-I-CT-M - Contact insert

1584431

https://www.phoenixcontact.com/us/products/1584431

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-D 64-I-CT-M - Contact insert

1584431

https://www.phoenixcontact.com/us/products/1584431

CK1,6-ED-ST-POF - Pin 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-D 64-I-CT-M - Contact insert

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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

HC-D 64-I-CT-M - Contact insert

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https://www.phoenixcontact.com/us/products/1584431

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-D 64-I-CT-M - Contact insert

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https://www.phoenixcontact.com/us/products/1584431

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 26 ... 22

HC-D 64-I-CT-M - Contact insert

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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-D 64-I-CT-M - Contact insert

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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-D 64-I-CT-M - Contact insert

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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-D 64-I-CT-M - Contact insert

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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-D 64-I-CT-M - Contact insert

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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-D 64-I-CT-F - Contact insert

1584444

https://www.phoenixcontact.com/us/products/1584444

Contact insert, number of positions: 64+PE, size: B24, number of connections per position: 1, Socket, Crimp connection, 250 V, 10 A, 0.14 mm^2 ... 2.5 mm^2, application: Signal

HC-D 64-I-CT-M - Contact insert

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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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