PHŒNIX CONTACT

Contact insert - HC-D 64-I-CT-F - 1584444

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HEAVYCON female insert, D64 series, 64-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.

☑ For fast coding with plastic profile (Order No. 1410916, type CP-HC-S)

RoHS

Key Commercial Data

Packing unit	1 pc
GTIN	4 046356 142700
GTIN	4046356142700
Weight per Piece (excluding packing)	73.800 g
Custom tariff number	85366990
Country of origin	China

Technical data

General

Note	For HC-D64 housing, crimp contacts CK1,6-ED (crimp contacts not included in scope of supply)
Connection method	Crimp connection
Degree of pollution	3
Overvoltage category	III
Number of positions	64+PE
Insertion/withdrawal cycles	≥ 500
Size	B24
Conductor cross section	0.14 mm² ... 2.5 mm²
Connection cross section AWG	26 ... 14
Stripping length of the individual wire	8 mm (0.14 ... 1.5 mm²)

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Technical data

General

	6 mm (2.5 mm²)
Assembly instructions	To ensure correct use, installation in housing with IP54 protection or better is required
Connection	Connectors may be plugged in only when there is no load/voltage.

Ambient conditions

Ambient temperature (operation)	-40 °C ... 125 °C (including heating up of contacts)

Material data

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)

Electrical characteristics

Rated voltage (III/3)	250 V
Rated surge voltage	4 kV
Rated current	10 A

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
Flammability rating according to UL 94	V0

Environmental Product Compliance

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

Drawings

Contact insert - HC-D 64-I-CT-F - 1584444

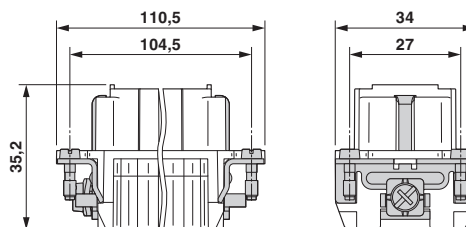### Schematic diagram
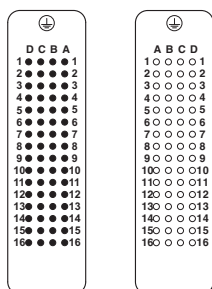
Female insert

Connector pin assignment connection side: Left
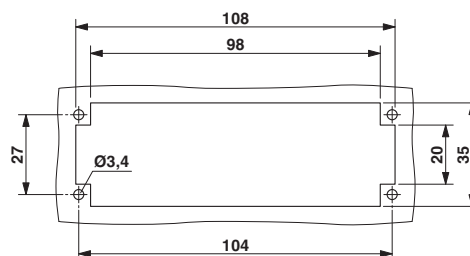pin; right socket

Dimensional drawing

Diagram

① = 0,75 mm²
② = 1,0 mm²
③ = 1,5 mm²
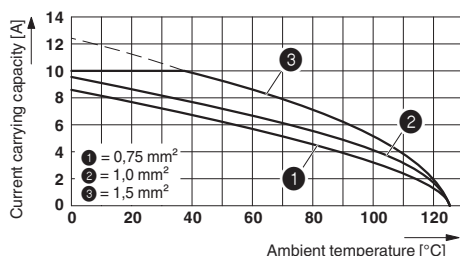
Derating diagram: HC-D...C series

Dimensional drawing

Mounting cutout when used without housing

Classifications

eCl@ss

eCl@ss 4.0	27140816
eCl@ss 4.1	27140816
eCl@ss 5.0	27143424
eCl@ss 5.1	27261200
eCl@ss 6.0	27261200
eCl@ss 7.0	27440205
eCl@ss 8.0	27440205
eCl@ss 9.0	27440205

ETIM

ETIM 2.0	EC000438
ETIM 3.0	EC000438
ETIM 4.0	EC000438
ETIM 5.0	EC000438
ETIM 6.0	EC000438

UNSPSC

UNSPSC 6.01	30211923

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Classifications

UNSPSC

UNSPSC 7.0901	39121522
UNSPSC 11	39121522
UNSPSC 12.01	39121522
UNSPSC 13.2	39121522

Approvals

Approvals

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CSA / GL / UL Recognized / EAC

Ex Approvals

Approval details

CSA		http://www.csagroup.org/services-industries/product-listing/	13631

Nominal voltage UN	600 V
Nominal current IN	7 A
mm²/AWG/kcmil	14

GL		http://exchange.dnv.com/tari/	6196614 HH

UL Recognized		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 118976

Nominal voltage UN	600 V
Nominal current IN	10 A
mm²/AWG/kcmil	14

EAC			RU C-DE.AI30.B.01102

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Accessories

Accessories

Assembly tool

Contact removal tool - VC-EW 1,6 - 1884869

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

Coding element

Coding element - HC-CBU - 1676860

Coding socket for coding up to 16 connectors

Coding bolt - HC-CB - 1772722

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

Coding element - HC-CST - 1676857

Coding peg for coding up to 16 connectors

Dummy socket - CK1,6-ED-BB - 1645888

Dummy socket for contact carrier with turned CK 1,6-ED.. female contacts

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Accessories

Coding profile - CP-HC-S - 1410916

Coding profile, 4 elements per star, for insertion in a coding keyway, for contact inserts HC-BB... / HC-A10-I-UT... / HC-A16-I-UT...

Crimp contact

Crimp contact - CK1,6-ED-0,37BU AG - 1663394

Turned 1.6 crimp contact, individual female contact, core diameter 0.14 to 0.37 mm², silver-plated

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Crimp contact - CK1,6-ED-0,50BU AG - 1663404

Turned 1.6 crimp contact, individual female contact, core diameter 0.5 mm², silver-plated

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Crimp contact - CK1,6-ED-0,75BU AG - 1663417

Turned 1.6 crimp contact, individual female contact, core diameter 0.75 mm², silver-plated

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Crimp contact - CK1,6-ED-1,00BU AG - 1663420

Turned 1.6 crimp contact, individual female contact, core diameter 0.75 to 1.00 mm², silver-plated

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Accessories

Crimp contact - CK1,6-ED-1,50BU AG - 1663433

Turned 1.6 crimp contact, individual female contact, core diameter 1.5 mm², silver-plated

Crimp contact - CK1,6-ED-2,50BU AG - 1663446

Turned 1.6 crimp contact, individual female contact, core diameter 2.5 mm², silver-plated

Crimp contact - CK1,6-ED-0,37BU AU - 1674969

Turned 1.6 crimp contact, individual female contact, core diameter 0.14 to 0.37 mm², gold-plated

Crimp contact - CK1,6-ED-0,50BU AU - 1674480

Turned 1.6 crimp contact, individual female contact, core diameter 0.5 mm², gold-plated

Crimp contact - CK1,6-ED-0,75BU AU - 1672440

Turned 1.6 crimp contact, individual female contact, core diameter 0.75 mm², gold-plated

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Accessories

Crimp contact - CK1,6-ED-1,00BU AU - 1674943

Turned 1.6 crimp contact, individual female contact, core diameter 0.75 to 1.00 mm², gold-plated

Crimp contact - CK1,6-ED-1,50BU AU - 1674930

Turned 1.6 crimp contact, individual female contact, core diameter 1.5 mm², gold-plated

Crimp contact - CK1,6-ED-2,50BU AU - 1674985

Turned 1.6 crimp contact, individual female contact, core diameter 2.5 mm², gold-plated

Crimping tool

Crimping pliers - CRIMPFOX-TC 4 - 1212113

Crimping pliers, for CK 1,6-ED..., CK 2,5-ED..., CK 4,0-ED... turned contacts, 4 marked die stations, unlockable pressure lock, lateral entry, incl. positioning tool

DIN rail mounting frame

DIN rail mounting frame - HC-SMR-B24 - 1687985

HEAVYCON DIN rail mounting frame, for contact inserts of type B24

Docking frame

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Accessories

Docking frames - HC-B 24-ANDOCK - 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

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Mounting material

Screw - HC-B-PES - 1604997

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

PE multiplier - HC-B-3PE - 1644326

PE multiplier, for three PE connections, for HC-B (besides HC-B..E..ZZ) / HC-BB / HC-DD / HC-D40 / HC-D64 contact inserts

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Strain relief clamp - HC-B-ZG - 1685327

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

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Strain relief clamp - HC-B-ZS - 1685330

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

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