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

1584075

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

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



Contact insert, number of positions: 72+PE, size: B16, 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.

Commercial data

Item number	1584075
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF61
Product key	BF7ABF
Catalog page	Page 539 (C-2-2019)
GTIN	4046356133388
Weight per piece (including packing)	54.3 g
Weight per piece (excluding packing)	54.2 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

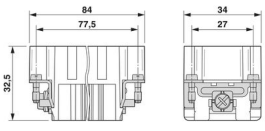
Product properties

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 material type	turned
	rolled
Series	HC-DD

Insulation characteristics

Overvoltage category	III
Degree of pollution	3

Dimensions

Dimensional drawing	
Width	34 mm
Height	32.5 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

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

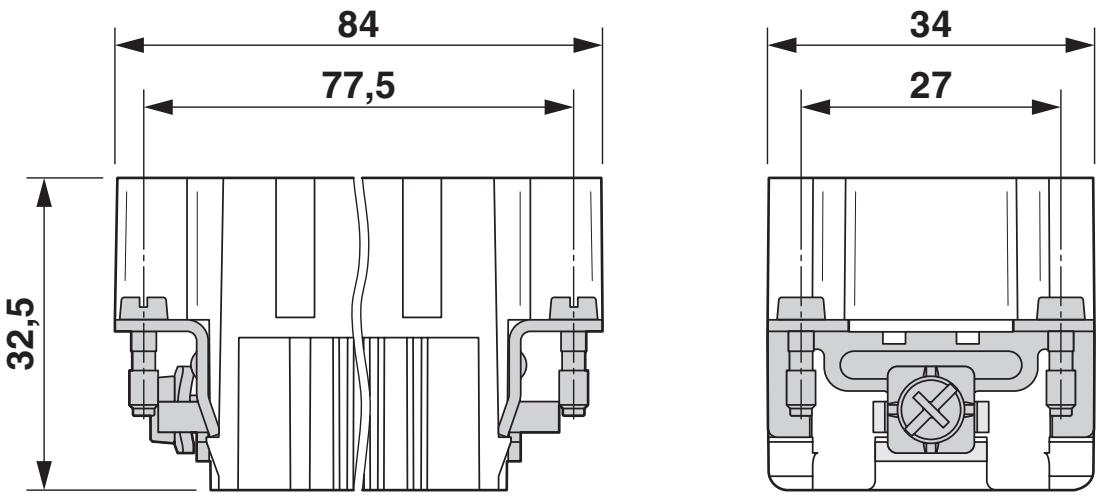
Tests	DIN VDE 0627/86
	DIN VDE 0110/02.79
	DIN VDE 0110-1/04.97
	IEC 60664-1, DIN IEC 60512
	IEC 60352

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)

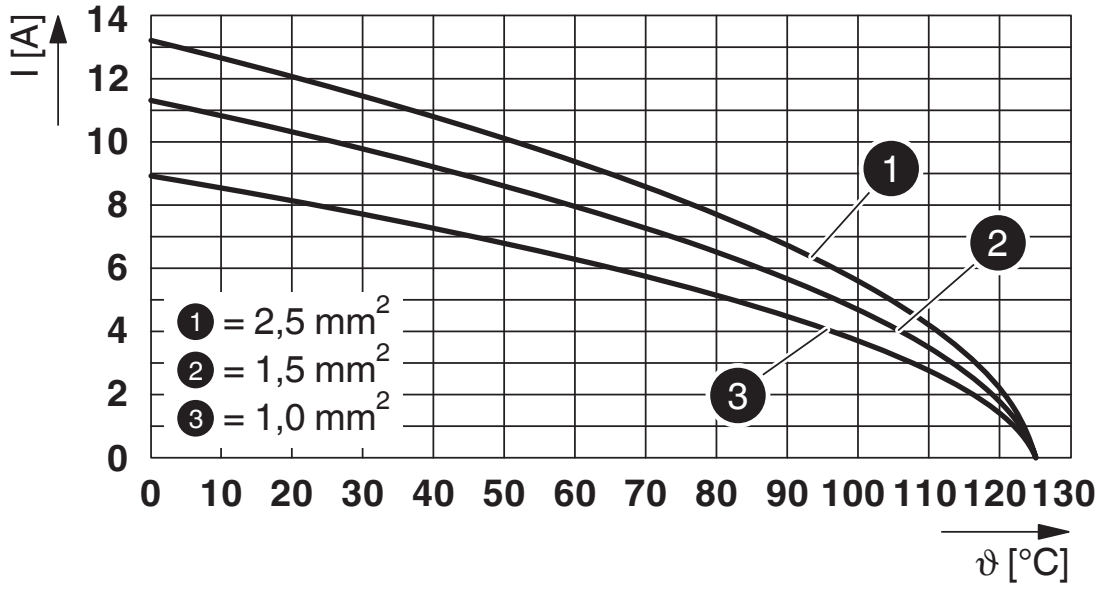
Drawings

Dimensional drawing



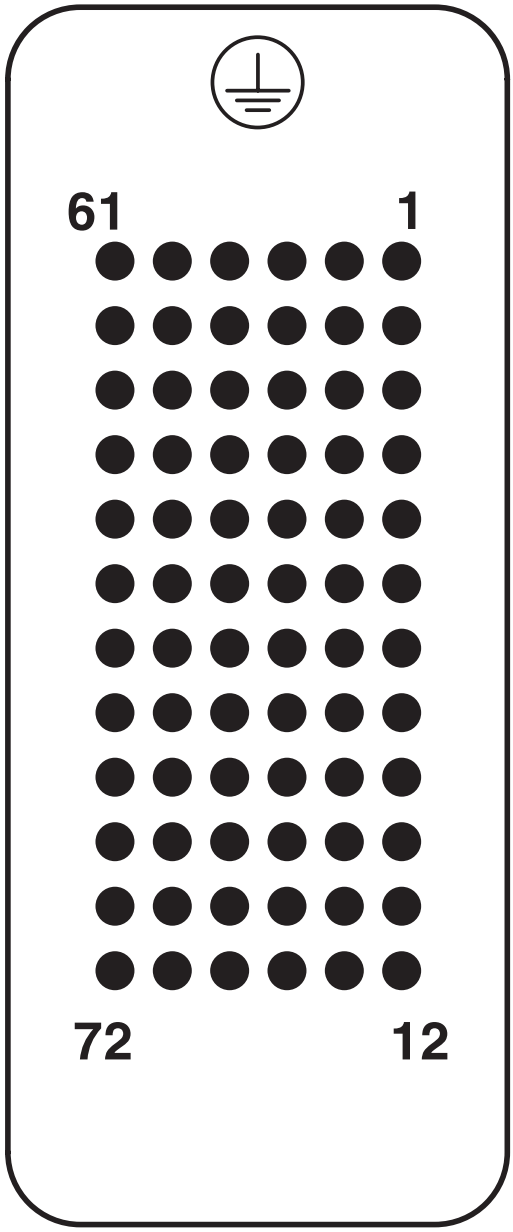
Male insert

Diagram



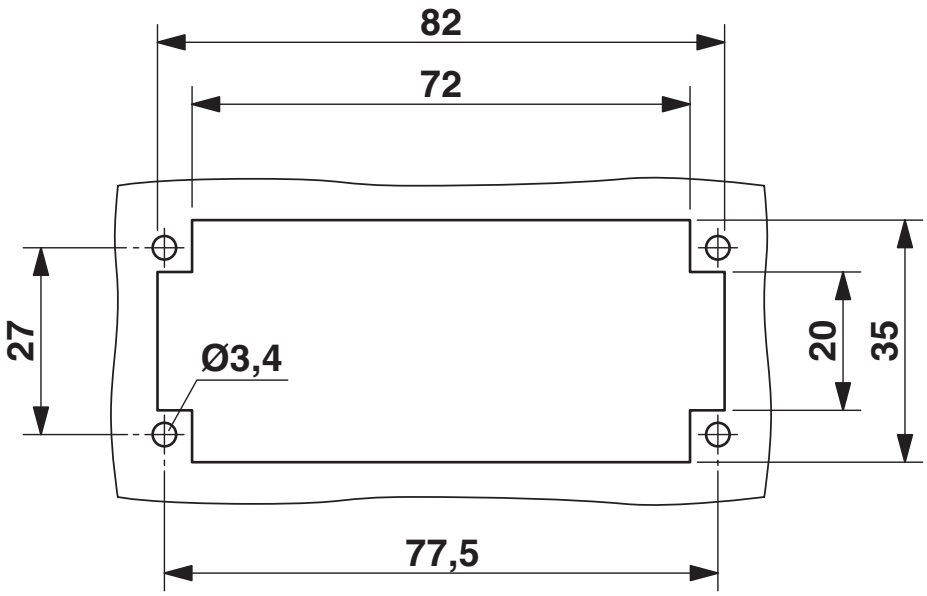
Derating diagram turned contacts

Schematic diagram



Connector pin assignment, connection side

Dimensional drawing



Mounting cutout when used without housing

Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1584075

DNV
Approval ID: TAE000037S

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.BL08.B.00511

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	-

cULus Recognized

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

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

Accessories

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-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

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 frame

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-0,37ST 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

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

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

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

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

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

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

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

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

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

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-DD72-I-CT-M - Contact insert

1584075

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

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-DD72-I-CT-F - Contact insert

1584091

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



Contact insert, number of positions: 72+PE, size: B16, number of connections per position: 1, Socket, Crimp connection, 250 V, 10 A, 0.14 mm^2 ... 2.5 mm^2, application: Signal

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

Phoenix Contact 2024 © - all rights reserved
https://www.phoenixcontact.com

Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com