HC-COM-Q4/2-I-CT-F - Contact insert

1079556

https://www.phoenixcontact.com/us/products/1079556

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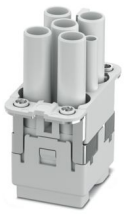


Contact insert, number of positions: 4+2+PE, size: COM, power contacts: 4, control contacts: 2, number of connections per position: 1, Socket, Crimp connection, 400 V, 40 A, 1.5 mm^2 ... 6 mm^2, application: Power/signal

Product description

Contact insert, incl. 4 mounting screws

Commercial data

Item number	1079556
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF61
Product key	BF7ABH
Catalog page	Page 651 (C-2-2019)
GTIN	4055626800349
Weight per piece (including packing)	23 g
Weight per piece (excluding packing)	22.22 g
Customs tariff number	85389099
Country of origin	CN

Technical data

Notes

General	Connectors may be operated only when there is no load/voltage.
General	For CK4,0-ED... (power circuit), CK1,6-ED... (control circuit) crimp contacts

Mounting

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

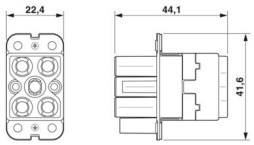
Product properties

Product type	Contact insert with a fixed no. of positions
Series	HC-COM
Application	Power/signal
Type	COM
Number of positions	6
Connection profile	4+2+PE
Contact numbering	1 - 4 (power contacts)
	11 - 12 (control contacts)
Number of connections per position	1
No. of power contacts	4
No. of control contacts	2
Contact material type	turned

Insulation characteristics

Overvoltage category	III
Degree of pollution	3

Dimensions

Dimensional drawing	
Width	22.4 mm
Height	44.1 mm
Length	41.6 mm

Mechanical characteristics

Contact diameter	4 mm

Connection data

Connection technology

	Crimp connection (power contacts)

Connection technology	Crimp connection (control contacts)
	Crimp connection (PE contact)
Number of connections per position	1
Connection in acc. with standard	IEC / EN

Conductor connection

Conductor cross section	1.5 mm² ... 6 mm² (power contacts)
	0.14 mm² ... 2.5 mm² (control contacts)
Connection cross section AWG	16 ... 10 (power contacts)
	26 ... 14 (control contacts)
Tightening torque	0.5 Nm ... 0.8 Nm (Mounting screws for mounting in the HEAVYCON housing)
Stripping length of the individual wire	9 mm (for 1.5 ... 2.5 mm²)
	9.6 mm (Power 4 ... 6 mm²)
	8 mm (Control circuit)
	6 mm (Signal 2.5 mm²)

Electrical properties

Rated voltage (III/3)	400 V (Phase-ground power contacts)
	250 V (control contacts)
	690 V (Phase-phase power contacts)
Rated voltage for power contacts	400/690 V
	250
Rated surge voltage	6 kV (Phase-phase power contacts)
	4 kV (control contacts)
Rated current	40 A (power contacts)
	10 A (control contacts)

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
Material of contact surface, power contact	Ag
Material of contact surface, control contact	Ag (alternatively Au)
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)

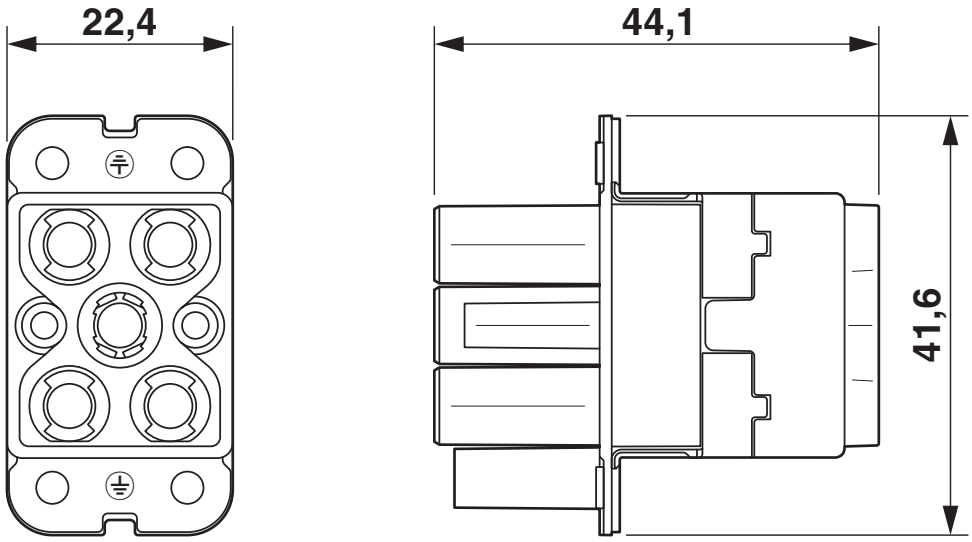
Standards and regulations

Testing

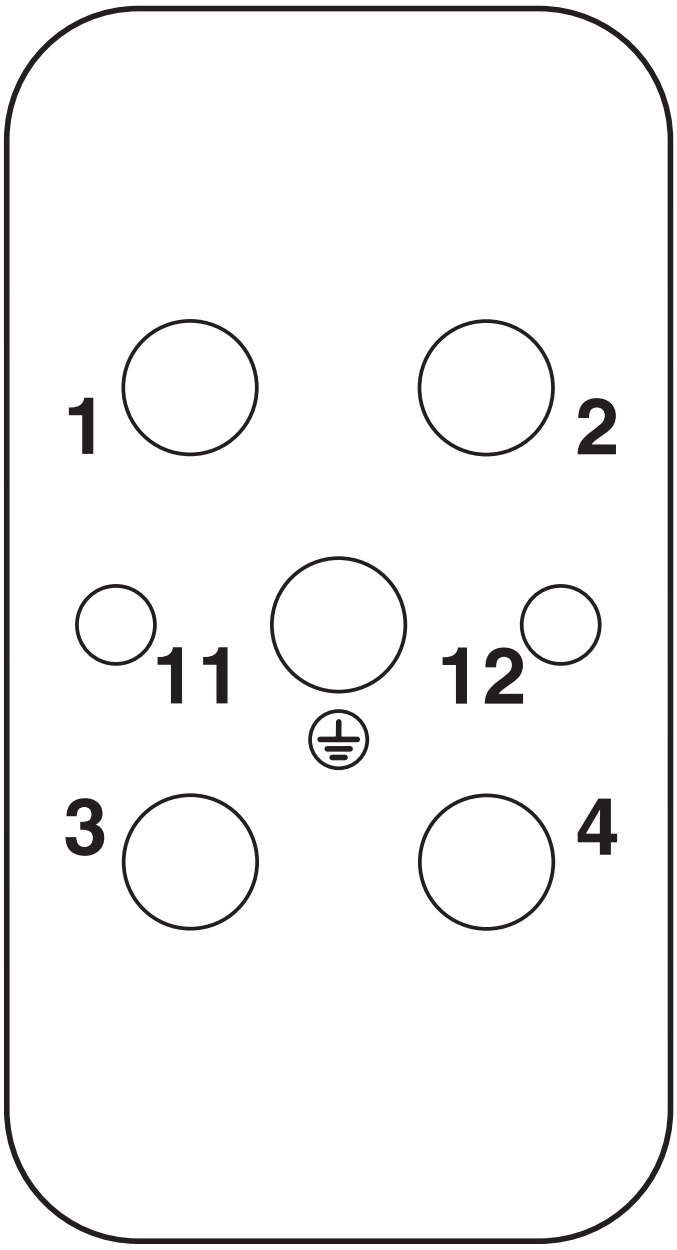
Standards/regulations	PC: Fire protection in rail vehicles - requirement sets R22, R23, and R24 acc. to DIN EN 45545-2 (Risk level HL1 - HL3)

Drawings

Dimensional drawing

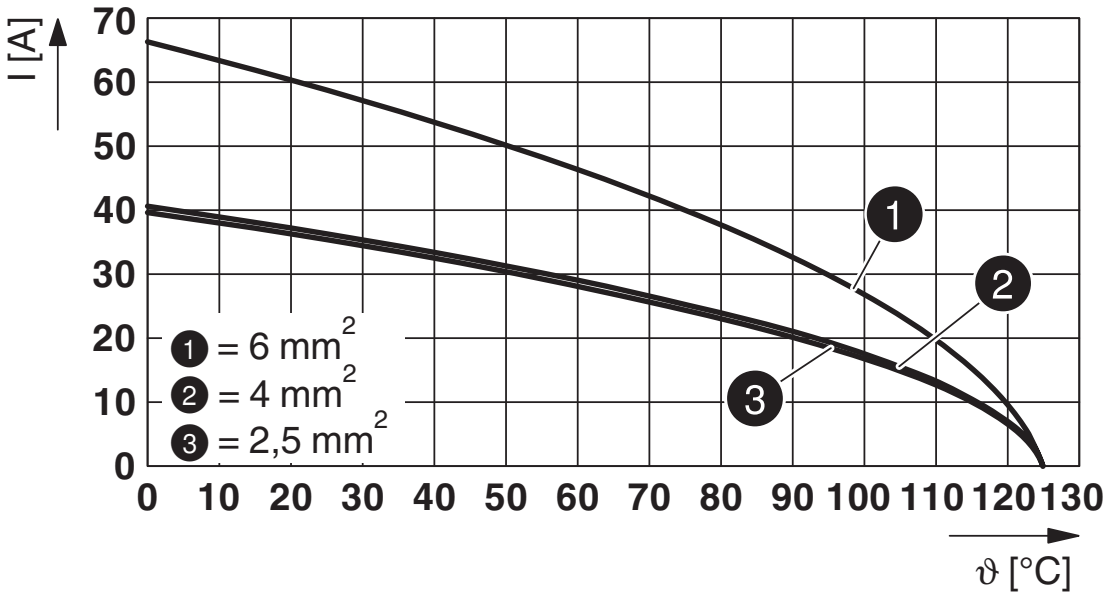


Schematic diagram



Connector pin assignment, connection side

Diagram



Derating diagram

Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1079556

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

UL Recognized
Approval ID: E468743

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%

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.

CK4,0-ED-4,00BU AG - Crimp contact

1663297

https://www.phoenixcontact.com/us/products/1663297



Crimp contact, contact diameter: 4 mm, turned, Socket, contact material: Copper alloy, contact surface: silver-plated, connection cross section: 4 mm^2 ... 4 mm^2, AWG 12

CP-HC-S - Coding profile

1410916

https://www.phoenixcontact.com/us/products/1410916

Coding profile, for contact inserts HC-BB... / HC-A10... / HC-A16...



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

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

CK4,0-ED-1,50BU AG - Crimp contact

1663271

https://www.phoenixcontact.com/us/products/1663271



Crimp contact, contact diameter: 4 mm, turned, Socket, contact material: Copper alloy, contact surface: silver-plated, connection cross section: 1.5 mm^2 ... 1.5 mm^2, AWG 16

CK4,0-ED-2,50BU AG - Crimp contact

1663284

https://www.phoenixcontact.com/us/products/1663284



Crimp contact, contact diameter: 4 mm, turned, Socket, contact material: Copper alloy, contact surface: silver-plated, connection cross section: 2.5 mm^2 ... 2.5 mm^2, AWG 14

CK4,0-ED-6,00BU AG - Crimp contact

1663307

https://www.phoenixcontact.com/us/products/1663307



Crimp contact, contact diameter: 4 mm, turned, Socket, contact material: Copper alloy, contact surface: silver-plated, connection cross section: 6 mm^2 ... 6 mm^2, AWG 10

CK4,0-ED-10,00BU AG - Crimp contact

1586183

https://www.phoenixcontact.com/us/products/1586183



Crimp contact, contact diameter: 4 mm, turned, Socket, contact material: Copper alloy, contact surface: silver-plated, connection cross section: 10 mm^2 ... 10 mm^2, AWG 8

CK4,0-ED-1,50F AG - Crimp contact

1274089

https://www.phoenixcontact.com/us/products/1274089



Crimp contact, contact diameter: 4 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

CK4,0-ED-2,50F AG - Crimp contact

1274088

https://www.phoenixcontact.com/us/products/1274088



Crimp contact, contact diameter: 4 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

CK4,0-ED-4,00F AG - Crimp contact

1274087

https://www.phoenixcontact.com/us/products/1274087



Crimp contact, contact diameter: 4 mm, turned, Socket, contact material: Copper alloy, lead-free, contact surface: silver-plated, connection cross section: 4 mm^2 ... 4 mm^2, AWG 12

CK4,0-ED-6,00F AG - Crimp contact

1274086

https://www.phoenixcontact.com/us/products/1274086



Crimp contact, contact diameter: 4 mm, turned, Socket, contact material: Copper alloy, lead-free, contact surface: silver-plated, connection cross section: 6 mm^2 ... 6 mm^2, AWG 10

CK4,0-ED-10,00F AG - Crimp contact

1274085

https://www.phoenixcontact.com/us/products/1274085



Crimp contact, contact diameter: 4 mm, turned, Socket, contact material: Copper alloy, lead-free, contact surface: silver-plated, connection cross section: 10 mm^2 ... 10 mm^2, AWG 8

HC-COM-Q4/2-I-CT-M - Contact insert

1079555

https://www.phoenixcontact.com/us/products/1079555



Contact insert, number of positions: 4+2+PE, size: COM, power contacts: 4, control contacts: 2, number of connections per position: 1, Pin, Crimp connection, 400 V, 40 A, 1.5 mm^2 ... 6 mm^2, application: Power/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

HC-COM-Q4/2-I-CT-F - Contact insert

1079556

https://www.phoenixcontact.com/us/products/1079556

UNIFOX RT-CK 4.0 - Contact removal tool

1072064

https://www.phoenixcontact.com/us/products/1072064



Contact removal tool, for rotated CK-4,0-... contacts

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