

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



1079556

<https://www.phoenixcontact.com/pc/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<sup>2</sup> ... 6 mm<sup>2</sup>, 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
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

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## Technical data

### Notes

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

### Mounting

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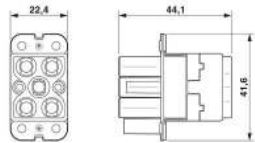
### Product properties

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

### 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
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### Connection data

Connection technology	Crimp connection (power contacts)
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1079556

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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 mm <sup>2</sup> ... 6 mm <sup>2</sup> (power contacts)
	0.14 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> (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 mm <sup>2</sup> )
	9.6 mm (Power 4 ... 6 mm <sup>2</sup> )
	8 mm (Control circuit)
	6 mm (Signal 2.5 mm <sup>2</sup> )

## 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
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## 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

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

### Testing

Standards/regulations
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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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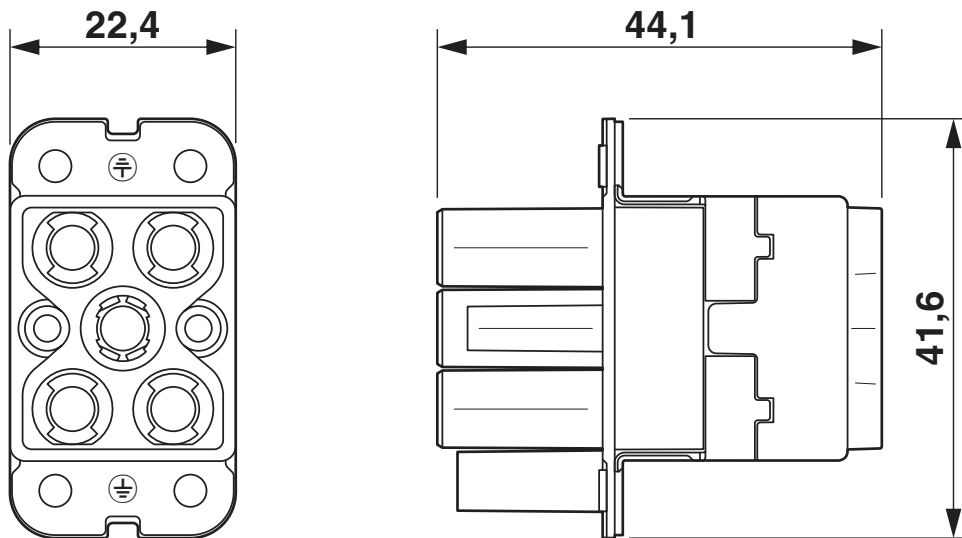
# HC-COM-Q4/2-I-CT-F - Contact insert

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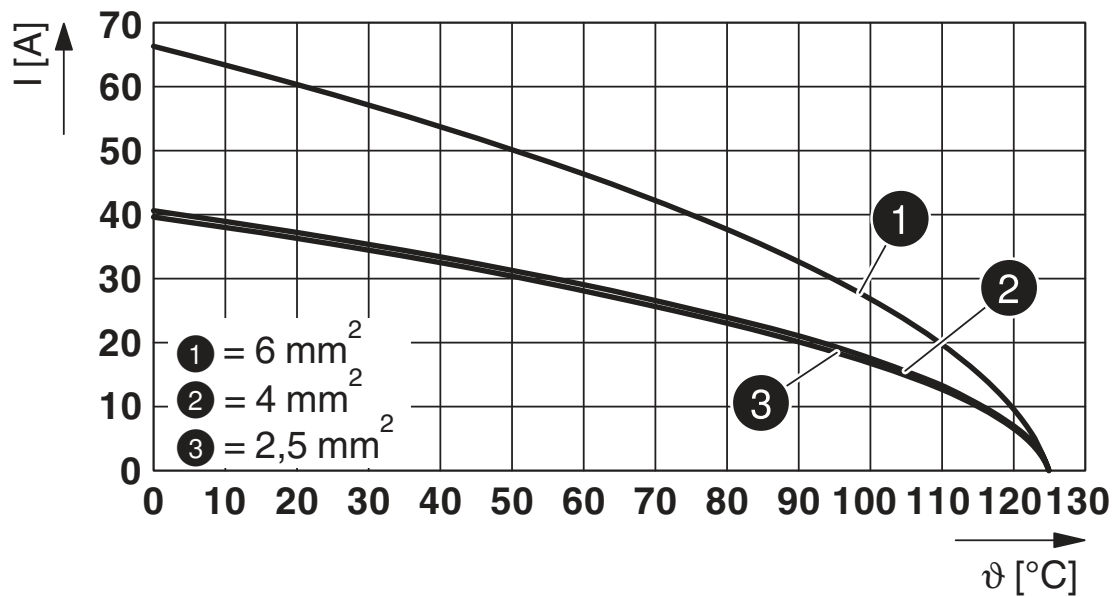
<https://www.phoenixcontact.com/pc/products/1079556>

## Drawings

Dimensional drawing



Diagram



Derating diagram

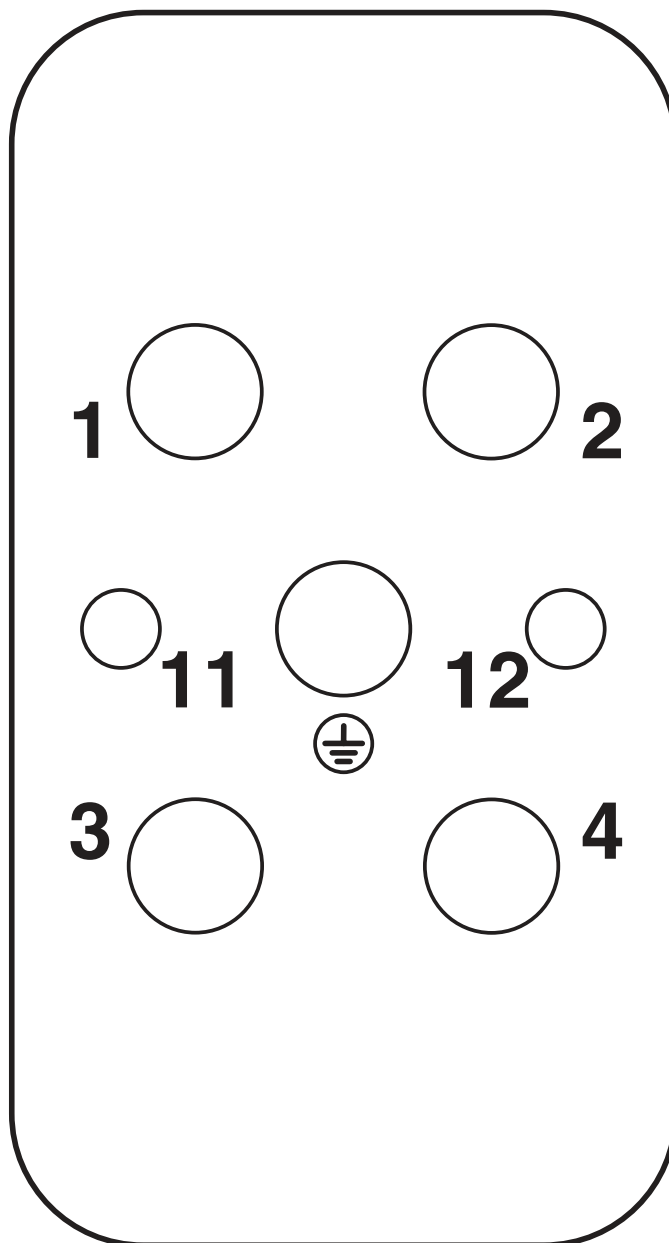
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Schematic diagram



Connector pin assignment, connection side

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## Approvals

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



**EAC**

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



**UL Recognized**

Approval ID: E468743

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## Classifications

### ECLASS

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

### ETIM

ETIM 8.0	EC000438
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### UNSPSC

UNSPSC 21.0	39121500
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## Environmental product compliance

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

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## Accessories

### HC-CP-CK1.6-PL - Coding element

1095422

<https://www.phoenixcontact.com/pc/products/1095422>

Coding element for HC-D and HC-DD contact inserts with pole loss. Installed in the socket contact chamber.



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

1663297

<https://www.phoenixcontact.com/pc/products/1663297>

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



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## CP-HC-S - Coding profile

1410916

<https://www.phoenixcontact.com/pc/products/1410916>

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



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

1663394

<https://www.phoenixcontact.com/pc/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<sup>2</sup> ... 0.37 mm<sup>2</sup>, AWG 26 ... 22

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<https://www.phoenixcontact.com/pc/products/1079556>



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

1663404

<https://www.phoenixcontact.com/pc/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<sup>2</sup> ... 0.5 mm<sup>2</sup>, AWG 20

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

1663417

<https://www.phoenixcontact.com/pc/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<sup>2</sup> ... 0.75 mm<sup>2</sup>, AWG 18

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

1663420

<https://www.phoenixcontact.com/pc/products/1663420>



Crimp contact, contact diameter: 1.6 mm, turned, Socket, contact material: Copper alloy, contact surface: silver-plated, connection cross section: 1 mm<sup>2</sup> ... 1 mm<sup>2</sup>, AWG 18

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

1663433

<https://www.phoenixcontact.com/pc/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<sup>2</sup> ... 1.5 mm<sup>2</sup>, AWG 16

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1079556

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

1663446

<https://www.phoenixcontact.com/pc/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<sup>2</sup> ... 2.5 mm<sup>2</sup>, AWG 14

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## CK1,6-ED-BU-POF - Female contact

1885004

<https://www.phoenixcontact.com/pc/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

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## CK1,6-ED-0,37F AG - Crimp contact

1266249

<https://www.phoenixcontact.com/pc/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<sup>2</sup> ... 0.34 mm<sup>2</sup>, AWG 24 ... 22

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## CK1,6-ED-0,50F AG - Crimp contact

1266252

<https://www.phoenixcontact.com/pc/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<sup>2</sup> ... 0.5 mm<sup>2</sup>, AWG 20

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## CK1,6-ED-0,75F AG - Crimp contact

1266259

<https://www.phoenixcontact.com/pc/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<sup>2</sup> ... 0.75 mm<sup>2</sup>, AWG 18

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## CK1,6-ED-1,00F AG - Crimp contact

1266296

<https://www.phoenixcontact.com/pc/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<sup>2</sup> ... 1 mm<sup>2</sup>, AWG 18



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## CK1,6-ED-1,50F AG - Crimp contact

1266263

<https://www.phoenixcontact.com/pc/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<sup>2</sup> ... 1.5 mm<sup>2</sup>, AWG 16

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## CK1,6-ED-2,50F AG - Crimp contact

1266295

<https://www.phoenixcontact.com/pc/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<sup>2</sup> ... 2.5 mm<sup>2</sup>, AWG 14

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

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

1674969

<https://www.phoenixcontact.com/pc/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<sup>2</sup> ... 0.37 mm<sup>2</sup>, AWG 24 ... 22

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

1674480

<https://www.phoenixcontact.com/pc/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<sup>2</sup> ... 0.5 mm<sup>2</sup>, AWG 20

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

1672440

<https://www.phoenixcontact.com/pc/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<sup>2</sup> ... 0.75 mm<sup>2</sup>, AWG 18

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

1674943

<https://www.phoenixcontact.com/pc/products/1674943>



Crimp contact, contact diameter: 1.6 mm, turned, Socket, contact material: Copper alloy, contact surface: gold-plated, connection cross section: 1 mm<sup>2</sup> ... 1 mm<sup>2</sup>, AWG 18

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

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

1674930

<https://www.phoenixcontact.com/pc/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<sup>2</sup> ... 1.5 mm<sup>2</sup>, AWG 16

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

1674985

<https://www.phoenixcontact.com/pc/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<sup>2</sup> ... 2.5 mm<sup>2</sup>, AWG 14

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

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## CK1,6-ER-1,00BU OIC AG - Crimp contact

1004362

<https://www.phoenixcontact.com/pc/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<sup>2</sup> ... 1 mm<sup>2</sup>, AWG 22 ... 17

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## CK1,6-ER-2,50BU OIC AG - Crimp contact

1004366

<https://www.phoenixcontact.com/pc/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<sup>2</sup> ... 2.5 mm<sup>2</sup>, AWG 16 ... 14

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

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<https://www.phoenixcontact.com/pc/products/1079556>

## CK1,6-BR-1,00BU OIC AG - Crimp contact

1004381

<https://www.phoenixcontact.com/pc/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<sup>2</sup> ... 1 mm<sup>2</sup>, AWG 22 ... 17, Taped products

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## CK1,6-BR-2,50BU OIC AG - Crimp contact

1004383

<https://www.phoenixcontact.com/pc/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<sup>2</sup> ... 2.5 mm<sup>2</sup>, AWG 16 ... 14, Taped products

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

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

1663271

<https://www.phoenixcontact.com/pc/products/1663271>



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

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

1663284

<https://www.phoenixcontact.com/pc/products/1663284>



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

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

1663307

<https://www.phoenixcontact.com/pc/products/1663307>



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

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

1586183

<https://www.phoenixcontact.com/pc/products/1586183>



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



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

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

1274089

<https://www.phoenixcontact.com/pc/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<sup>2</sup> ... 1.5 mm<sup>2</sup>, AWG 16

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

1274088

<https://www.phoenixcontact.com/pc/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<sup>2</sup> ... 2.5 mm<sup>2</sup>, AWG 14

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

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

1274087

<https://www.phoenixcontact.com/pc/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<sup>2</sup> ... 4 mm<sup>2</sup>, AWG 12

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

1274086

<https://www.phoenixcontact.com/pc/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<sup>2</sup> ... 6 mm<sup>2</sup>, AWG 10

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

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

1274085

<https://www.phoenixcontact.com/pc/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<sup>2</sup> ... 10 mm<sup>2</sup>, AWG 8

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

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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, Pin, Crimp connection, 400 V, 40 A, 1.5 mm<sup>2</sup> ... 6 mm<sup>2</sup>, application: Power/signal

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## CRIMPFOX-TC 10 - Crimping pliers

1212114

<https://www.phoenixcontact.com/pc/products/1212114>



**Crimping pliers**, for turned contacts with a pin diameter of 4.0 mm, two marked die stations, pressure lock can be released, lateral entry, incl. positioning help

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## UNIFOX MT-CK 1.6/2.5 - Assembly tool

1089092

<https://www.phoenixcontact.com/pc/products/1089092>



Assembly tool, for CK 1.6... crimp contacts for small conductor cross sections

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## UNIFOX RT-CK 1.6 - Contact removal tool

1072069

<https://www.phoenixcontact.com/pc/products/1072069>

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



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## UNIFOX RT-CK 4.0 - Contact removal tool

1072064

<https://www.phoenixcontact.com/pc/products/1072064>

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



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PHOENIX CONTACT GmbH & Co. KG  
Flachsmarktstraße 8  
D-32825 Blomberg  
+49 (0) 5235-3 00  
[info@phoenixcontact.com](mailto:info@phoenixcontact.com)