

HC-COM- 4/2-EBUC - Contact insert



1408517

<https://www.phoenixcontact.com/us/products/1408517>

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Contact insert, number of positions: 4+2+PE, size: COM, power contacts: 4, control contacts: 2, Socket, Crimp connection, 250 V, 40 A, 0.14 mm² ... 2.5 mm², application: Power/signal, Only suitable for plastic housings

Product description

Contact insert, incl. 4 mounting screws

Your advantages

- Shock and vibration-resistant in accordance with DIN EN 61373

Commercial data

Item number	1408517
Packing unit	2 pc
Minimum order quantity	2 pc
Sales key	BF61
Product key	BF7ABH
Catalog page	Page 649 (C-2-2017)
GTIN	4046356618229
Weight per piece (including packing)	13.75 g
Weight per piece (excluding packing)	13.81 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 CK4,0-ED... (power circuit), CK1,6-ED... (control circuit) crimp contacts

Mounting

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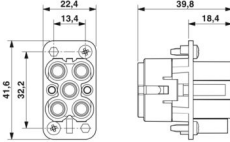
Product properties

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)
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	48.05 mm
Length	41.6 mm

Mechanical characteristics

Contact diameter	4 mm
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Connection data

Connection technology

Connection technology	Crimp connection (Signal contacts)
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	Crimp connection (power contacts)
Connection in acc. with standard	IEC / EN

Conductor connection

Conductor cross section	0.14 mm ² ... 2.5 mm ² (control contacts)
	1.5 mm ² ... 6 mm ² (power contacts)
Connection cross section AWG	16 ... 10 (power contacts)
	26 ... 14 (control contacts)
Stripping length of the individual wire	9 mm (Power 1.5 ... 2.5 mm ²)
	9.6 mm (Power 4 ... 6 mm ²)
	8 mm (Signal)
	6 mm (Signal 2.5 mm ²)

Electrical properties

Rated voltage (III/3)	250 V (control contacts)
	400 V (Phase-ground power 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)

Environmental and real-life conditions

Ambient conditions

Ambient temperature (operation)	-40 °C ... 100 °C (including heating up of contacts)
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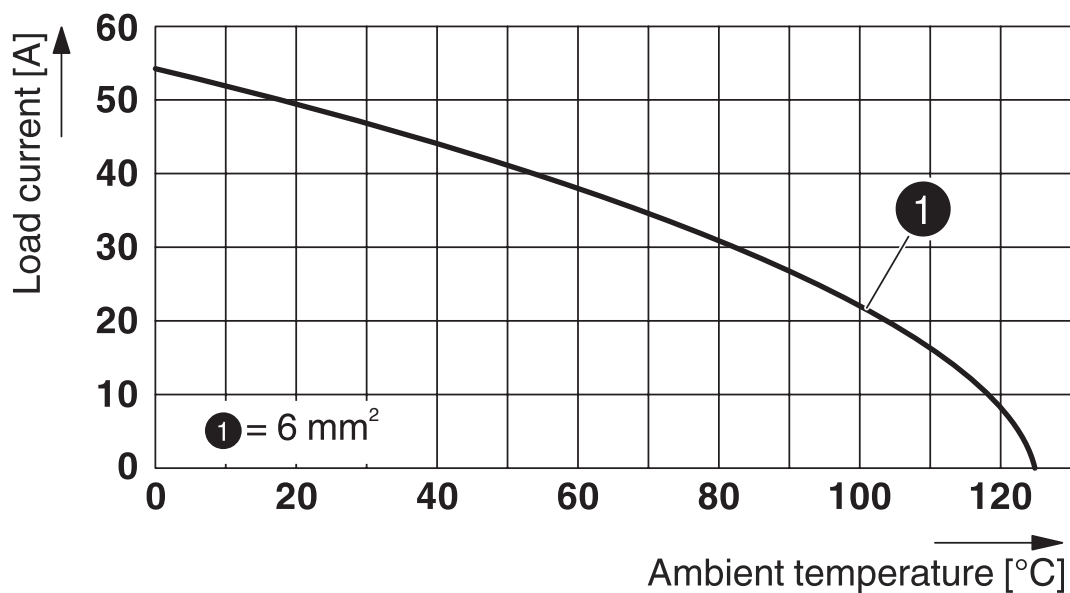


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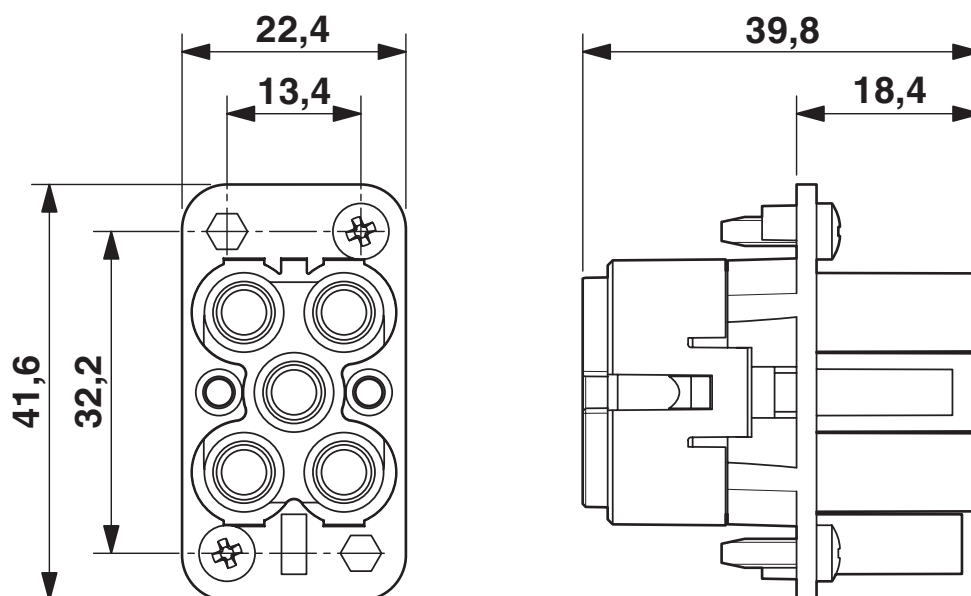
Drawings

Diagram



Derating diagram power circuit for 6 mm² (control current 10 A)

Dimensional drawing



HC-COM-4/2-EBUC dimensional drawing

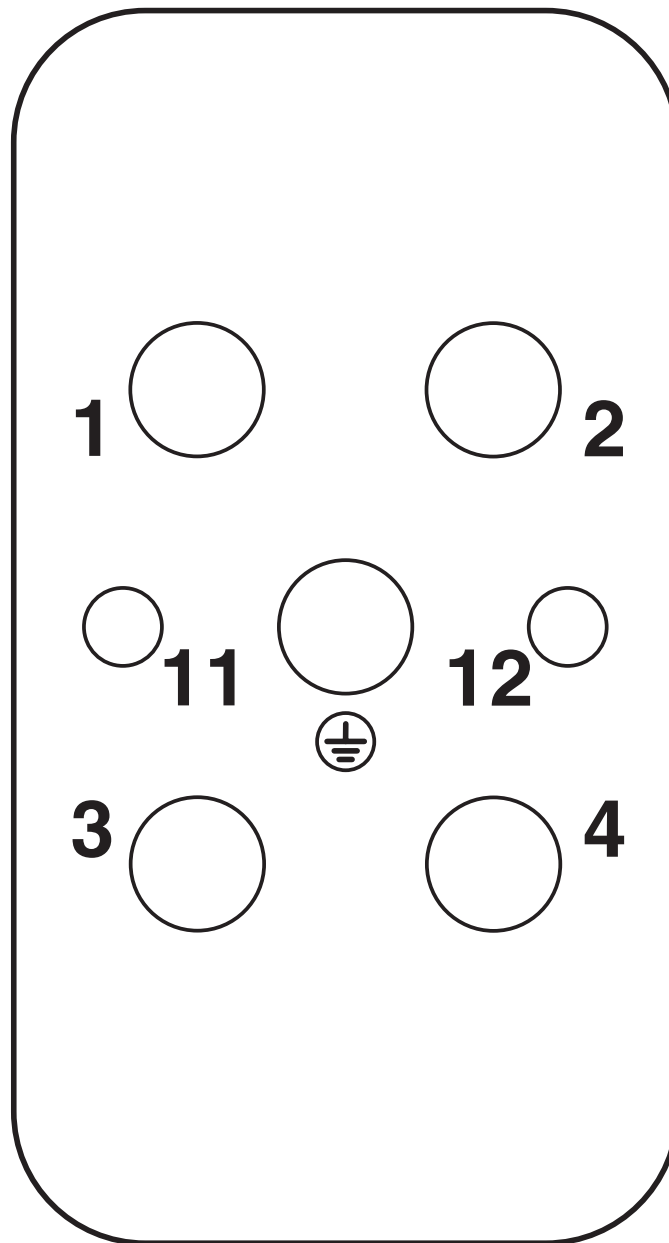
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Schematic diagram



Connector pin assignment, connection side

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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1408517>

	CSA Approval ID: 260458			
		Nominal voltage U_N	Nominal current I_N	Cross section AWG
		600 V	19 A	20 - 12
				Cross section mm ²
				-

	cUL Recognized Approval ID: FILE E 118976
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	UL Recognized Approval ID: FILE E 118976
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	EAC Approval ID: RU C-DE.AI30.B.01102
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	EAC Approval ID: RU C-DE.BL08.B.00511
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cULus Recognized

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Classifications

ECLASS

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

ETIM

ETIM 9.0	EC000438
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UNSPSC

UNSPSC 21.0	39121500
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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.)	Perfluorobutane sulfonic acid (PFBS) and its salts(CAS: n/a)

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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-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 mm² ... 1.5 mm², AWG 16

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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 mm² ... 4 mm², AWG 12

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 mm² ... 0.37 mm², AWG 26 ... 22

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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 mm² ... 0.5 mm², 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 mm² ... 0.75 mm², AWG 18

HC-COM- 4/2-EBUC - Contact insert

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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 mm² ... 1 mm², 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 mm² ... 1.5 mm², AWG 16

HC-COM- 4/2-EBUC - Contact insert

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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 mm² ... 2.5 mm², 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

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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 mm² ... 0.34 mm², 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 mm² ... 0.5 mm², AWG 20

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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 mm² ... 0.75 mm², 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 mm² ... 1 mm², AWG 18

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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 mm² ... 1.5 mm², 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 mm² ... 2.5 mm², AWG 14

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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 mm² ... 0.37 mm², AWG 26 ... 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 mm² ... 0.5 mm², AWG 20

HC-COM- 4/2-EBUC - Contact insert

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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 mm² ... 0.75 mm², 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 mm² ... 1 mm², AWG 18

HC-COM- 4/2-EBUC - Contact insert

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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 mm² ... 1.5 mm², 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 mm² ... 2.5 mm², AWG 14

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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 mm² ... 2.5 mm², 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 mm² ... 6 mm², AWG 10

HC-COM- 4/2-EBUC - Contact insert

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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 mm² ... 10 mm², 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 mm² ... 1.5 mm², AWG 16

HC-COM- 4/2-EBUC - Contact insert

1408517

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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 mm² ... 2.5 mm², 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 mm² ... 4 mm², AWG 12

HC-COM- 4/2-EBUC - Contact insert

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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 mm² ... 6 mm², 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 mm² ... 10 mm², AWG 8

HC-COM- 4/2-EBUC - Contact insert

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HC-COM- 4/2-ESTC - Contact insert

1408504

<https://www.phoenixcontact.com/us/products/1408504>



Contact insert, number of positions: 4+2+PE, size: COM, power contacts: 4, control contacts: 2, Pin, Crimp connection, 250 V, 40 A, 0.14 mm² ... 2.5 mm², application: Power/signal, Only suitable for plastic housings

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

HC-COM- 4/2-EBUC - Contact insert

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<https://www.phoenixcontact.com/us/products/1408517>



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



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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