

HC-K 6/36-ESTC - Contact insert



1636376

<https://www.phoenixcontact.com/us/products/1636376>

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Contact insert, number of positions: 6+36+PE, size: B16, power contacts: 6, control contacts: 36, Pin, Crimp connection, 690 V, 40 A, 1.5 mm² ... 6 mm², application: Power/signal

Your advantages

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

Commercial data

Item number	1636376
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF61
Product key	BF7ABA
Catalog page	Page 569 (C-2-2019)
GTIN	4046356011518
Weight per piece (including packing)	68.2 g
Weight per piece (excluding packing)	65.6 g
Customs tariff number	85366990
Country of origin	CN

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Technical data

Notes

General	For HEAVYCON ADVANCE and HEAVYCON housing of type B16/B32, power contacts: CK 4,0-ED, control contacts: CK 1,6-ED (crimp contacts not supplied as standard)
General	Connectors may be operated only when there is no load/voltage.

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-K
Application	Power/signal
Type	B16 B32
Number of positions	42
Connection profile	6+36+PE
Contact numbering	1 - 6 (power contacts) 1 - 36 (control contacts)
No. of power contacts	6
No. of control contacts	36
Contact material type	turned

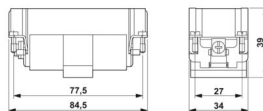
Data management status

Article revision	04
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Insulation characteristics

Overvoltage category	III
Degree of pollution	3

Dimensions

Dimensional drawing	
Width	34 mm
Height	39 mm
Length	84.5 mm
Drill hole distance, horizontal	77.5 mm

Mechanical characteristics

Contact diameter	4 mm
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Connection data

Connection technology

Connection technology	Crimp connection (power contacts)
	Crimp connection (control contacts)

Conductor connection

Conductor cross section	1.5 mm ² ... 6 mm ² (power contacts)
	0.14 mm ² ... 2.5 mm ² (control contacts)
Connection cross section AWG	16 ... 10 (power contacts)
	26 ... 14 (control contacts)
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	9 mm (Power 1.5 ... 2.5 mm ²)
	8 mm (Control contacts, with a cross section of 0.14 mm ² ... 1.5 mm ²)
	9.5 mm (Power 4 ... 6 mm ²)
	6 mm (2.5 mm ²)

Electrical properties

Rated voltage (III/3)	690 V (power contacts)
	160 V (control contacts)
Rated surge voltage	8 kV (power contacts)
	2.5 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	Cu alloy
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 set R22 acc. to DIN EN 45545-2 (Risk level HL1 - HL2)
	PC: Fire protection in rail vehicles - requirement set R23 acc. to DIN EN 45545-2 (Risk level HL1 - HL3)

Environmental and real-life conditions

Ambient conditions

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Ambient temperature (operation)	-40 °C ... 125 °C
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Standards and regulations

Testing

Standards/regulations	PC: Fire protection in rail vehicles - requirement set R22 acc. to DIN EN 45545-2 (Risk level HL1 - HL2)
	PC: Fire protection in rail vehicles - requirement set R23 acc. to DIN EN 45545-2 (Risk level HL1 - HL3)

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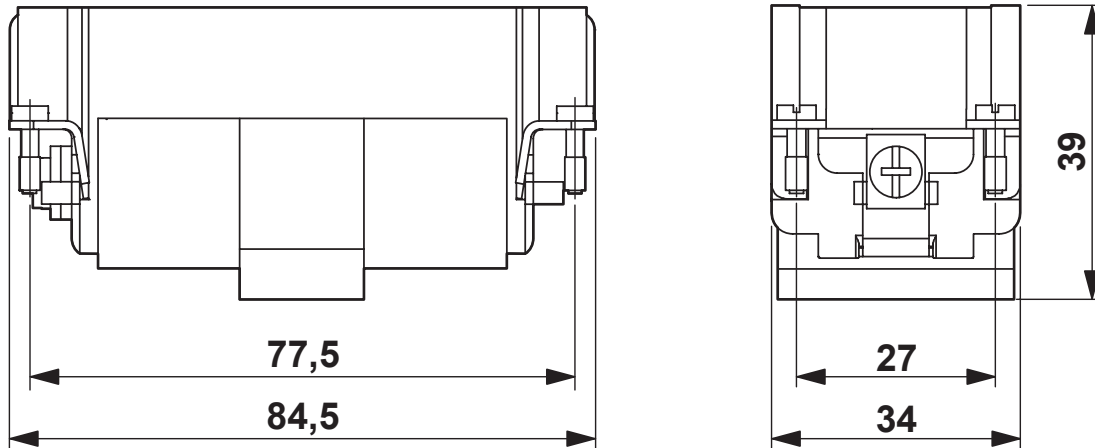
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Drawings

Dimensional drawing



Dimensional drawing

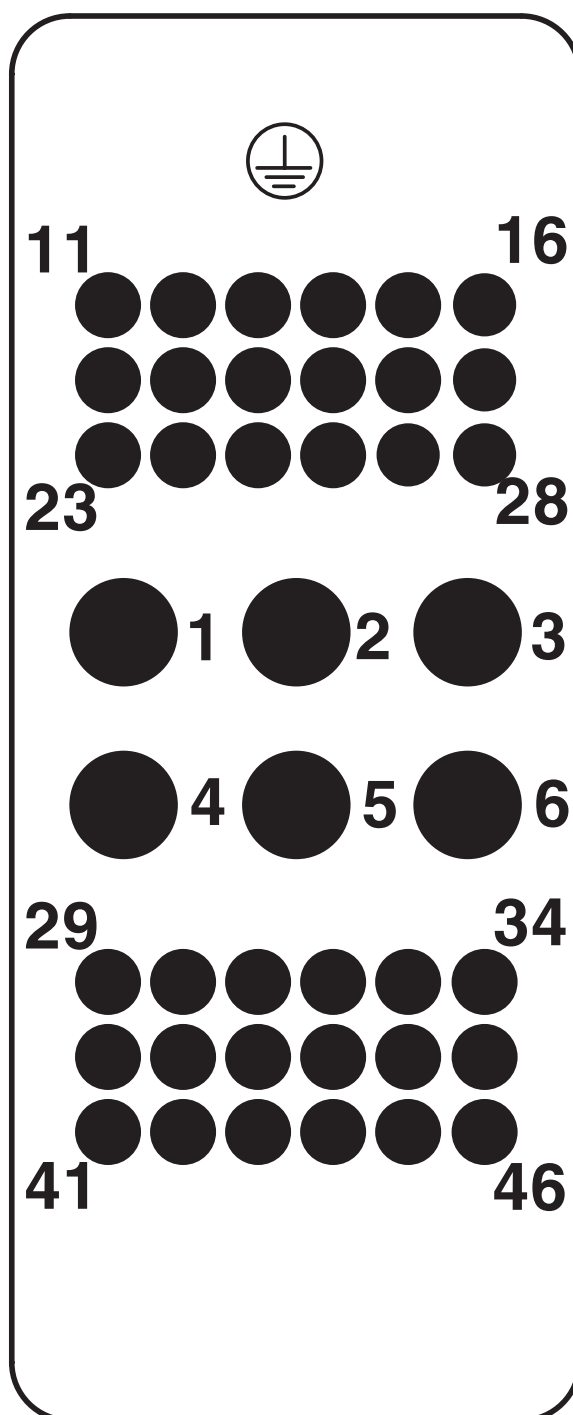
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Schematic diagram



Connector pin assignment, connection side

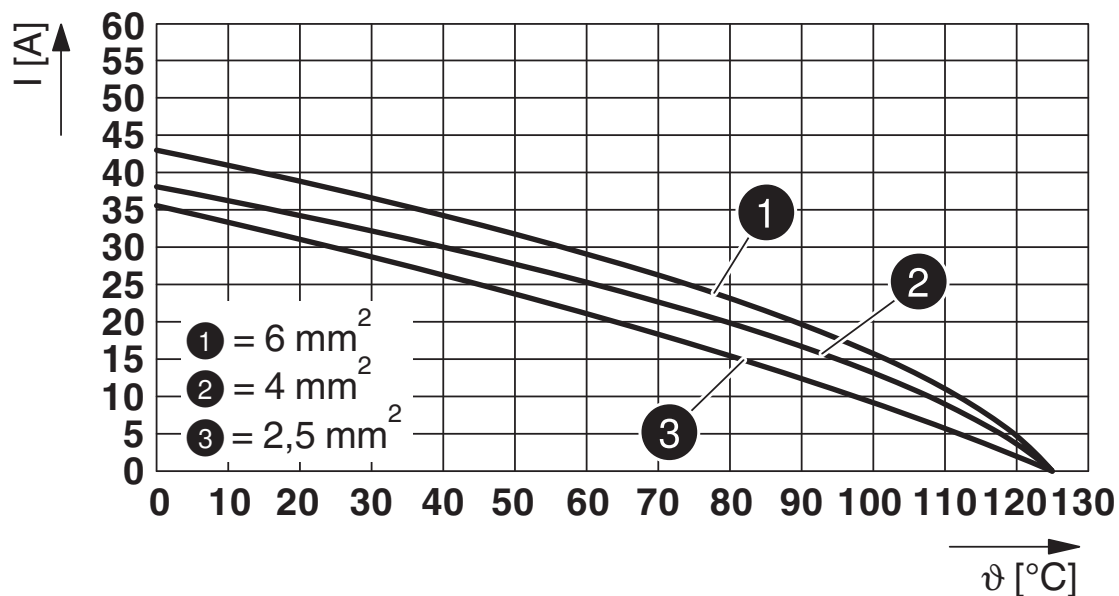
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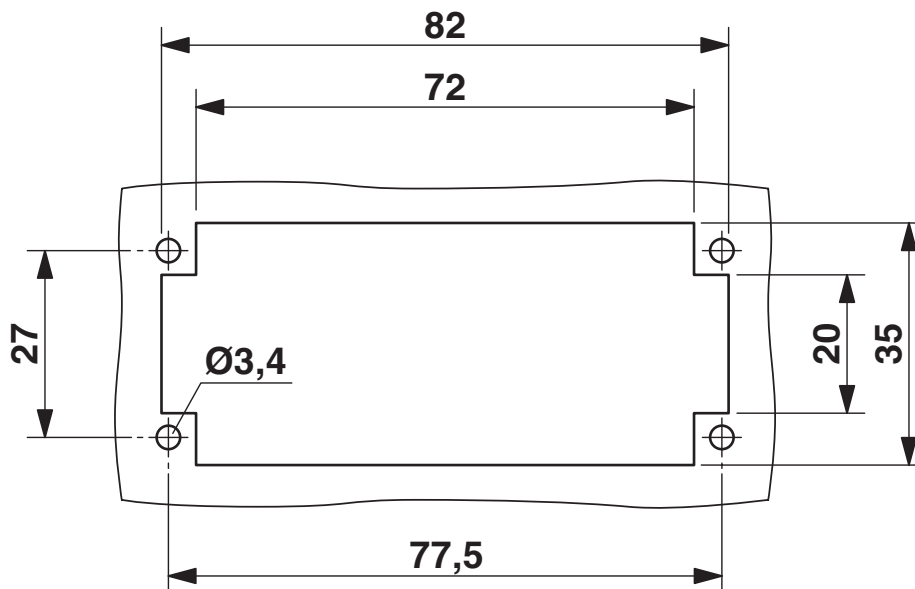


Diagram



Derating diagram

Dimensional drawing



Mounting cutout when used without housing

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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1636376>

 UL Recognized Approval ID: E118976				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
Power	600 V	40 A	- 10	-
Control	600 V	10 A	14	-

 EAC Approval ID: RU C-DE.BL08.B.00511				
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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.)	No substance above 0.1 wt%

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Accessories

HC-CB - Coding bolt

1772722

<https://www.phoenixcontact.com/us/products/1772722>



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

HC-CST - Coding element

1676857

<https://www.phoenixcontact.com/us/products/1676857>



Coding peg for coding up to 16 connectors

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HC-CBU - Coding element

1676860

<https://www.phoenixcontact.com/us/products/1676860>

Coding socket for coding up to 16 connectors



CK1,6-ED-0,37ST AG - Crimp contact

1663336

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Crimp contact, contact diameter: 1.6 mm, turned, Pin, 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-0,50ST 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 mm² ... 0.5 mm², 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 mm² ... 0.75 mm², AWG 18

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

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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 mm² ... 2.5 mm², AWG 14

CK1,6-ED-ST-POF - Pin 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

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

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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 mm² ... 1.5 mm², 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 mm² ... 0.75 mm², AWG 18

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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 mm² ... 1 mm², 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 mm² ... 2.5 mm², AWG 14

HC-K 6/36-ESTC - Contact insert

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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 mm² ... 0.37 mm², AWG 26 ... 22

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 mm² ... 0.5 mm², AWG 20

HC-K 6/36-ESTC - Contact insert

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

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

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

1663239

<https://www.phoenixcontact.com/us/products/1663239>



Crimp contact, contact diameter: 4 mm, turned, Pin, contact material: Copper alloy, contact surface: silver-plated, connection cross section: 1.5 mm² ... 1.5 mm², AWG 16

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

1663242

<https://www.phoenixcontact.com/us/products/1663242>



Crimp contact, contact diameter: 4 mm, turned, Pin, contact material: Copper alloy, contact surface: silver-plated, connection cross section: 2.5 mm² ... 2.5 mm², AWG 14

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

1663255

<https://www.phoenixcontact.com/us/products/1663255>



Crimp contact, contact diameter: 4 mm, turned, Pin, contact material: Copper alloy, contact surface: silver-plated, connection cross section: 4 mm² ... 4 mm², AWG 12

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

1663268

<https://www.phoenixcontact.com/us/products/1663268>



Crimp contact, contact diameter: 4 mm, turned, Pin, contact material: Copper alloy, contact surface: silver-plated, connection cross section: 6 mm² ... 6 mm², AWG 10 ... 10

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

1586198

<https://www.phoenixcontact.com/us/products/1586198>



Crimp contact, contact diameter: 4 mm, turned, Pin, contact material: Copper alloy, contact surface: silver-plated, connection cross section: 10 mm² ... 10 mm², AWG 8 ... 8

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

1274097

<https://www.phoenixcontact.com/us/products/1274097>



Crimp contact, contact diameter: 4 mm, turned, Pin, contact material: Copper alloy, lead-free, contact surface: silver-plated, connection cross section: 1.5 mm² ... 1.5 mm², AWG 16

HC-K 6/36-ESTC - Contact insert

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

1274094

<https://www.phoenixcontact.com/us/products/1274094>



Crimp contact, contact diameter: 4 mm, turned, Pin, contact material: Copper alloy, lead-free, contact surface: silver-plated, connection cross section: 2.5 mm² ... 2.5 mm², AWG 14

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

1274093

<https://www.phoenixcontact.com/us/products/1274093>



Crimp contact, contact diameter: 4 mm, turned, Pin, contact material: Copper alloy, lead-free, contact surface: silver-plated, connection cross section: 4 mm² ... 4 mm², AWG 12

HC-K 6/36-ESTC - Contact insert

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

1274092

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Crimp contact, contact diameter: 4 mm, turned, Pin, contact material: Copper alloy, lead-free, contact surface: silver-plated, connection cross section: 6 mm² ... 6 mm², AWG 10

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

1274091

<https://www.phoenixcontact.com/us/products/1274091>



Crimp contact, contact diameter: 4 mm, turned, Pin, contact material: Copper alloy, lead-free, contact surface: silver-plated, connection cross section: 10 mm² ... 10 mm², AWG 8

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HC-K 6/36-EBUC - Contact insert

1636389

<https://www.phoenixcontact.com/us/products/1636389>



Contact insert, number of positions: 6+36+PE, size: B16, power contacts: 6, control contacts: 36, Socket, Crimp connection, 690 V, 40 A, 1.5 mm² ... 6 mm², 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

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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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