

HC-A 16-ESTC - Contact insert



1677034

<https://www.phoenixcontact.com/pc/products/1677034>

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HEAVYCON male insert, A16 series, 16-pos., crimp connection



Commercial data

Item number	1677034
Packing unit	10 pc
Minimum order quantity	1 pc
Product key	BF7ABB
Catalog page	Page 521 (C-2-2019)
GTIN	4017918129651
Weight per piece (including packing)	45.96 g
Weight per piece (excluding packing)	43.04 g
Customs tariff number	85366990
Country of origin	DE

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Technical data

Notes

General	for HC-D25 / HC-D50 housing, crimp contact CK2,5-ED (crimp contacts not included in scope of supply)
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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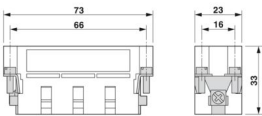
Product properties

Product type	Contact insert with a fixed no. of positions
Series	HC-A
Type	D25
	D50
Number of positions	16
Connection profile	16+PE
Contact numbering	1 - 16
Number of connections per position	1
Contact material type	turned

Insulation characteristics

Overvoltage category	III
Degree of pollution	3

Dimensions

Dimensional drawing	
Width	23 mm
Height	31.8 mm
Length	72 mm
Drill hole distance, horizontal	66 mm
Drill hole distance, vertical	16 mm

Mechanical characteristics

Contact diameter	2.5 mm
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Connection data

Connection technology

Connection technology	Crimp connection
Number of connections per position	1

HC-A 16-ESTC - Contact insert

1677034

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Connection in acc. with standard	IEC / EN
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Conductor connection

Conductor cross section	0.5 mm ² ... 4 mm ² (applies to stranded conductors)
Connection cross section AWG	20 ... 12
Tightening torque	0.7 Nm ... 1 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

Electrical properties

Rated voltage (III/3)	250 V
Rated surge voltage	4 kV
Rated current	16 A
Test voltage	4 kV AC

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	PA

Environmental and real-life conditions

Ambient conditions

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

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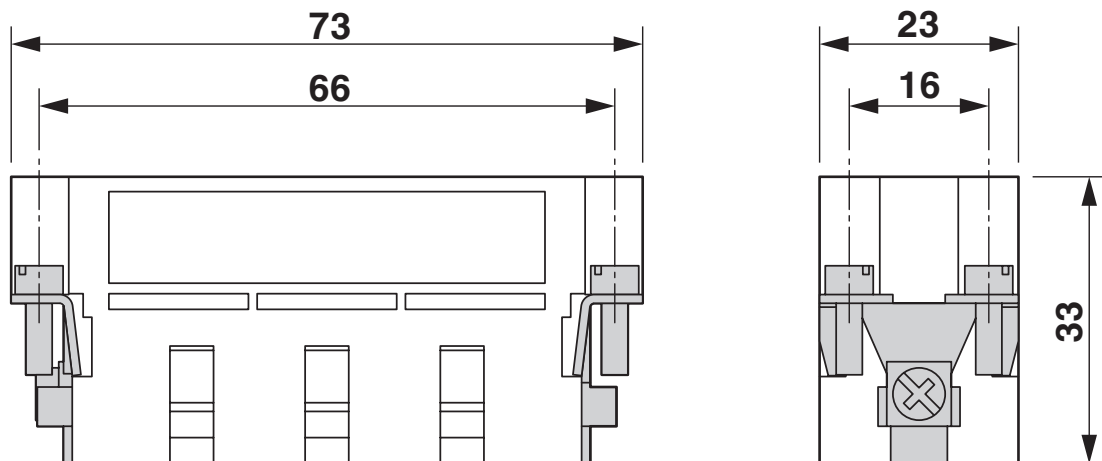
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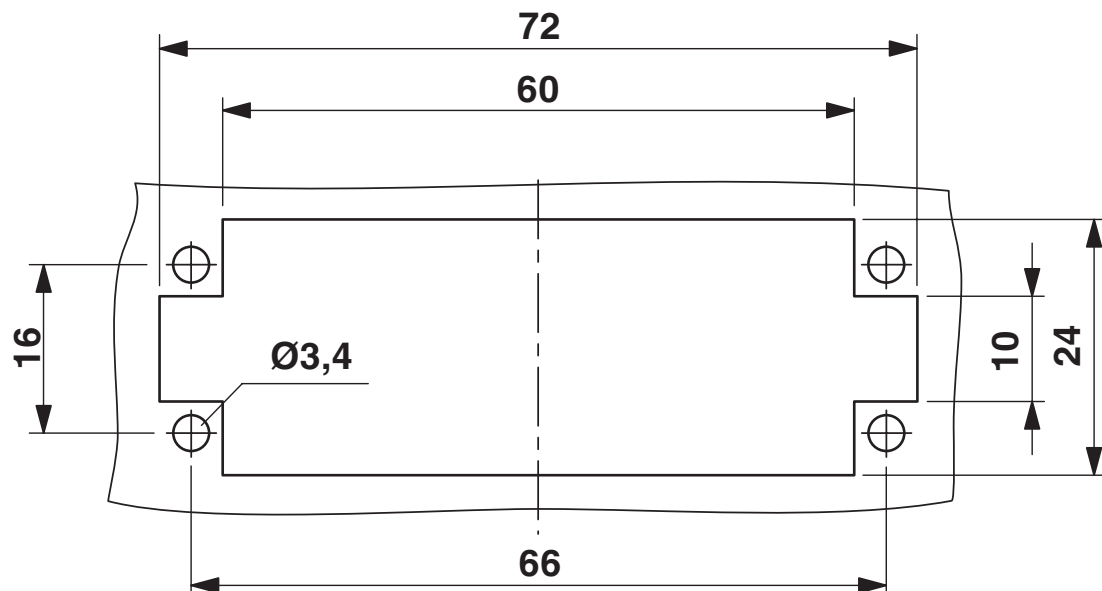
Drawings

Dimensional drawing

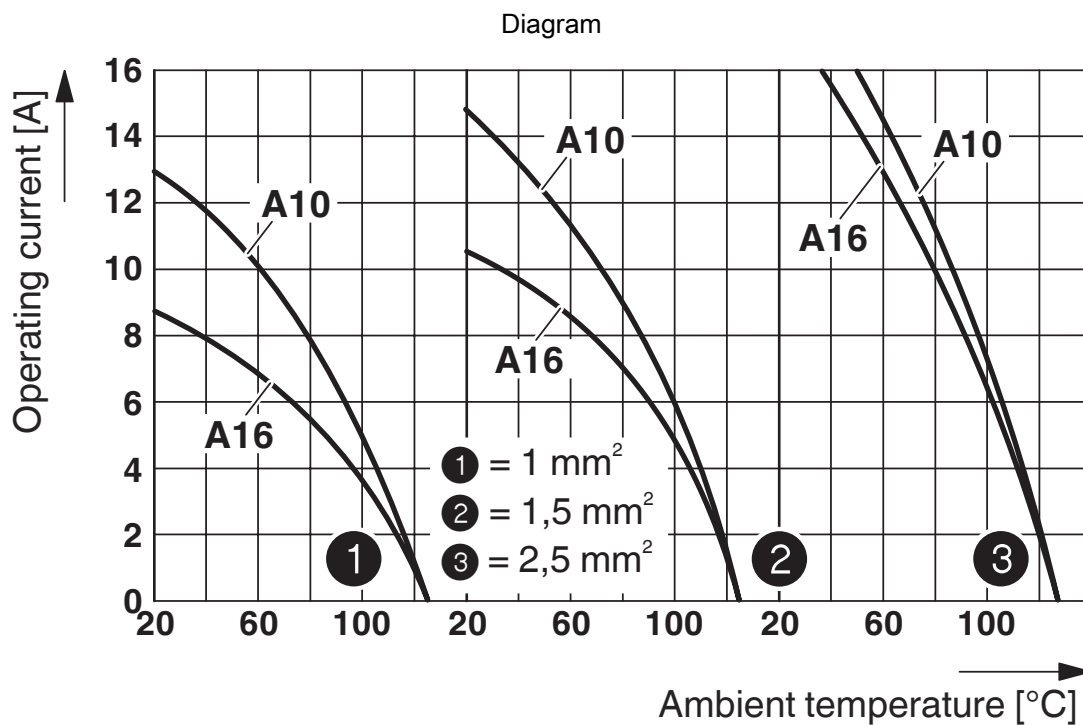


Male insert

Dimensional drawing



Mounting cutout when used without housing



Derating diagram: HC-A...C series

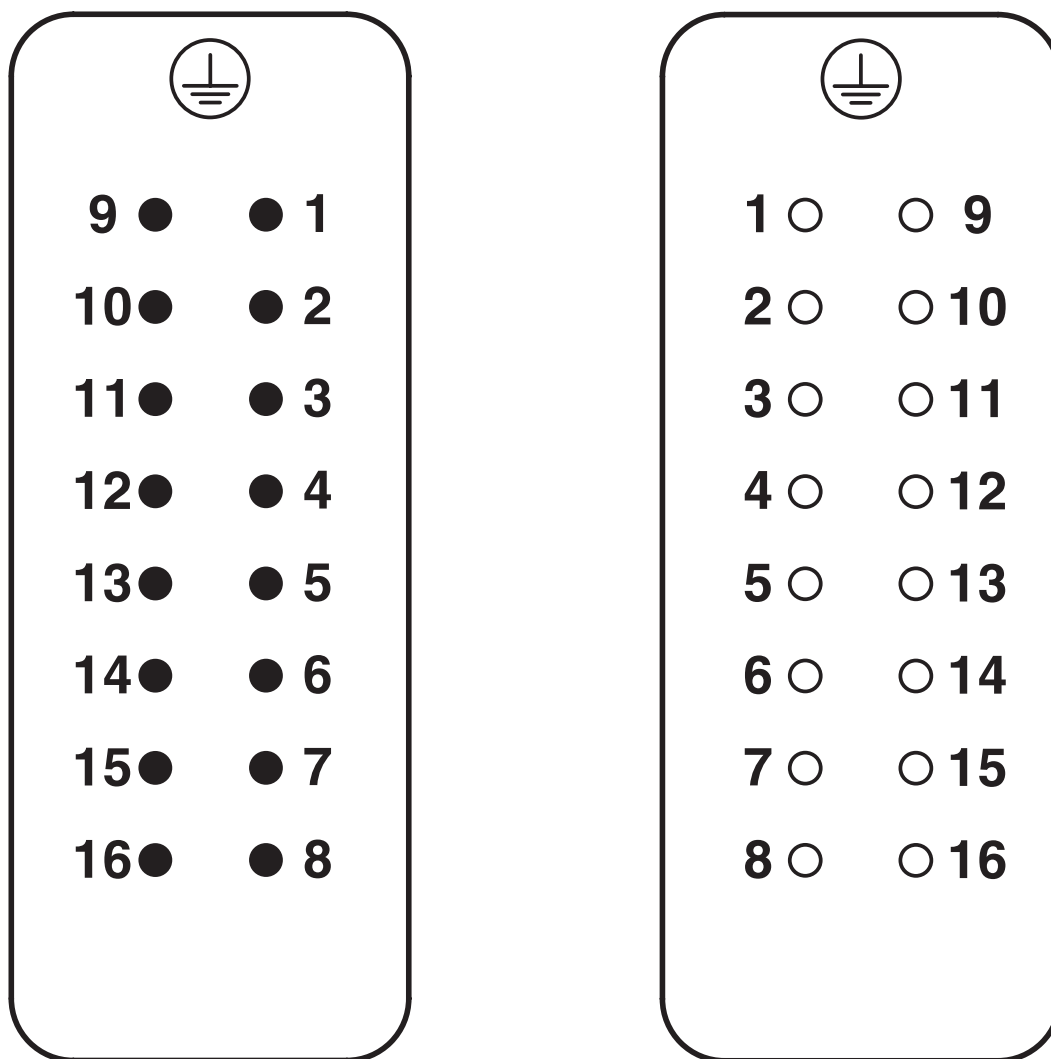
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Schematic diagram



Connector pin assignment, connection side

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Classifications

ECLASS

ECLASS-11.0	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

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-A-PES - Screw

1584868

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PE screw for contact inserts of A series

HC-CST - Coding element

1676857

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



Coding peg for coding up to 16 connectors

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HC-CBU - Coding element

1676860

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



Coding socket for coding up to 16 connectors

HC-CB - Coding bolt

1772722

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

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CK2,5-ED-0,50ST AG - Crimp contact

1663572

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Crimp contact, contact diameter: 2.5 mm, turned, Pin, contact material: Copper alloy, contact surface: silver-plated, connection cross section: 0.5 mm² ... 0.5 mm², AWG 20

CK2,5-ED-0,75ST AG - Crimp contact

1663585

<https://www.phoenixcontact.com/pc/products/1663585>



Crimp contact, contact diameter: 2.5 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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CK2,5-ED-1,00ST AG - Crimp contact

1663598

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Crimp contact, contact diameter: 2.5 mm, turned, Pin, contact material: Copper alloy, contact surface: silver-plated, connection cross section: 1 mm² ... 1 mm², AWG 18

CK2,5-ED-1,50ST AG - Crimp contact

1663608

<https://www.phoenixcontact.com/pc/products/1663608>



Crimp contact, contact diameter: 2.5 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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CK2,5-ED-2,50ST AG - Crimp contact

1663611

<https://www.phoenixcontact.com/pc/products/1663611>



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

CK2,5-ED-3,00ST AG - Crimp contact

1663624

<https://www.phoenixcontact.com/pc/products/1663624>



Crimp contact, contact diameter: 2.5 mm, turned, Pin, contact material: Copper alloy, contact surface: silver-plated, connection cross section: 3 mm² ... 3 mm², AWG 12

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CK2,5-ED-4,00ST AG - Crimp contact

1663637

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Crimp contact, contact diameter: 2.5 mm, turned, Pin, contact material: Copper alloy, contact surface: silver-plated, connection cross section: 4 mm² ... 4 mm², AWG 12

CK2,5-ED-0,50M AG - Crimp contact

1273667

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Crimp contact, contact diameter: 2.5 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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CK2,5-ED-0,75M AG - Crimp contact

1273666

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Crimp contact, contact diameter: 2.5 mm, turned, Pin, contact material: Copper alloy, lead-free, contact surface: silver-plated, connection cross section: 0.75 mm² ... 0.75 mm², AWG 18

CK2,5-ED-1,00M AG - Crimp contact

1273665

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Crimp contact, contact diameter: 2.5 mm, turned, Pin, contact material: Copper alloy, lead-free, contact surface: silver-plated, connection cross section: 1 mm² ... 1 mm², AWG 18

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CK2,5-ED-1,50M AG - Crimp contact

1273664

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Crimp contact, contact diameter: 2.5 mm, turned, Pin, contact material: Copper alloy, lead-free, contact surface: silver-plated, connection cross section: 1.5 mm² ... 1.5 mm², AWG 16

CK2,5-ED-2,50M AG - Crimp contact

1273663

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Crimp contact, contact diameter: 2.5 mm, turned, Pin, 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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CK2,5-ED-3,00M AG - Crimp contact

1273648

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Crimp contact, contact diameter: 2.5 mm, turned, Pin, contact material: Copper alloy, lead-free, contact surface: silver-plated, connection cross section: 3 mm² ... 3 mm², AWG 12

CK2,5-ED-4,00M AG - Crimp contact

1273620

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Crimp contact, contact diameter: 2.5 mm, turned, Pin, contact material: Copper alloy, lead-free, contact surface: silver-plated, connection cross section: 4 mm² ... 4 mm², AWG 12

HC-A 16-ESTC - Contact insert

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CK2,5-ED-0,37ST AU - Crimp contact

1585663

<https://www.phoenixcontact.com/pc/products/1585663>



Crimp contact, contact diameter: 2.5 mm, turned, Pin, contact material: Copper alloy, contact surface: gold-plated, connection cross section: 0.14 mm² ... 0.37 mm², AWG 22 ... 26

CK2,5-ED-0,50ST AU - Crimp contact

1674804

<https://www.phoenixcontact.com/pc/products/1674804>



Crimp contact, contact diameter: 2.5 mm, turned, Pin, contact material: Copper alloy, contact surface: gold-plated, connection cross section: 0.5 mm² ... 0.5 mm², AWG 20

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CK2,5-ED-1,00ST AU - Crimp contact

1674781

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Crimp contact, contact diameter: 2.5 mm, turned, Pin, contact material: Copper alloy, contact surface: gold-plated, connection cross section: 1 mm² ... 1 mm², AWG 18

CK2,5-ED-1,50ST AU - Crimp contact

1674778

<https://www.phoenixcontact.com/pc/products/1674778>



Crimp contact, contact diameter: 2.5 mm, turned, Pin, contact material: Copper alloy, contact surface: gold-plated, connection cross section: 1.5 mm² ... 1.5 mm², AWG 16

HC-A 16-ESTC - Contact insert

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CK2,5-ED-2,50ST AU - Crimp contact

1674817

<https://www.phoenixcontact.com/pc/products/1674817>



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

CK2,5-ED-4,00ST AU - Crimp contact

1674794

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Crimp contact, contact diameter: 2.5 mm, turned, Pin, contact material: Copper alloy, contact surface: gold-plated, connection cross section: 4 mm² ... 4 mm², AWG 12

HC-A 16-ESTC - Contact insert

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CK2,5-ED-0,37M AU - Crimp contact

1273603

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Crimp contact, contact diameter: 2.5 mm, turned, Pin, contact material: Copper alloy, lead-free, contact surface: gold-plated, connection cross section: 0.14 mm² ... 0.37 mm², AWG 22 ... 26

CK2,5-ED-0,50M AU - Crimp contact

1273601

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Crimp contact, contact diameter: 2.5 mm, turned, Pin, contact material: Copper alloy, lead-free, contact surface: gold-plated, connection cross section: 0.5 mm² ... 0.5 mm², AWG 20

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CK2,5-ED-1,00M AU - Crimp contact

1273582

<https://www.phoenixcontact.com/pc/products/1273582>



Crimp contact, contact diameter: 2.5 mm, turned, Pin, contact material: Copper alloy, lead-free, contact surface: gold-plated, connection cross section: 1 mm² ... 1 mm², AWG 18

CK2,5-ED-1,50M AU - Crimp contact

1273581

<https://www.phoenixcontact.com/pc/products/1273581>



Crimp contact, contact diameter: 2.5 mm, turned, Pin, contact material: Copper alloy, lead-free, contact surface: gold-plated, connection cross section: 1.5 mm² ... 1.5 mm², AWG 16

HC-A 16-ESTC - Contact insert

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CK2,5-ED-2,50M AU - Crimp contact

1273572

<https://www.phoenixcontact.com/pc/products/1273572>



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

CK2,5-ED-4,00M AU - Crimp contact

1273568

<https://www.phoenixcontact.com/pc/products/1273568>



Crimp contact, contact diameter: 2.5 mm, turned, Pin, contact material: Copper alloy, lead-free, contact surface: gold-plated, connection cross section: 4 mm² ... 4 mm², AWG 12

HC-A 16-ESTC - Contact insert

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HC-A 16-EBUC - Contact insert

1677018

<https://www.phoenixcontact.com/pc/products/1677018>

HEAVYCON female insert, A16 series, 16-pos., crimp connection



UNIFOX RT-CK 2.5 - Contact removal tool

1072067

<https://www.phoenixcontact.com/pc/products/1072067>

Contact removal tool, for turned CK 2,5... contacts



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