

HC-CME-DD42-F-SNAP-L - Power connector



1425838

<https://www.phoenixcontact.com/us/products/1425838>

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HEAVYCON connection system for applications in the control cabinet



Commercial data

Item number	1425838
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF61
Product key	BF7ABZ
GTIN	4055626428772
Weight per piece (including packing)	47.99 g
Weight per piece (excluding packing)	47.7 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	It is imperative that the supplied funnel pads (HC-DD...-FP) are used to prevent tip collision due to misalignment.

Mounting

Assembly instructions	Use within a control cabinet that is protected against unauthorized access is essential to ensure correct use. At the installation location in the control cabinet, the cable bundle to be connected must be properly installed and fitted with strain relief. As the pin connector pattern does not provide a leading protective conductor contact (PE), consistent grounding must be ensured by the control cabinet assembly.
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Product properties

Product type	Contact insert with a fixed no. of positions
Number of positions	42
Connection profile	42
Contact numbering	1 - 42
Application	Signal
Number of connections per position	1
Contact material type	turned rolled

Insulation characteristics

Overvoltage category	III
Degree of pollution	3

Dimensions

Mechanical characteristics

Contact diameter	1.6 mm
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Connection data

Connection technology

Connection technology	Crimp connection
Number of connections per position	1

Conductor connection

Conductor cross section	0.14 mm ² ... 2.5 mm ²
Connection cross section AWG	26 ... 14
Stripping length of the individual wire	8 mm (0.14 mm ² ... 1.5 mm ²)
	6 mm (2.5 mm ²)

Electrical properties

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Rated voltage (III/3)	250 V
Rated surge voltage	4 kV
Rated current	10 A

Material specifications

Flammability rating according to UL 94	V0
Contact material	Copper alloy
Contact surface material	Ag (alternatively Au)
Contact carrier material	PC

Environmental and real-life conditions

Ambient conditions

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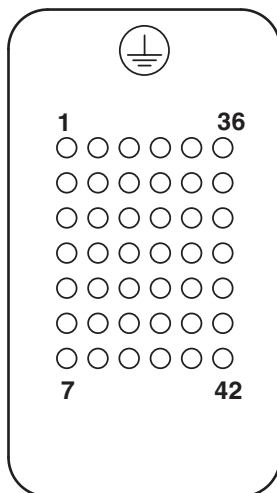


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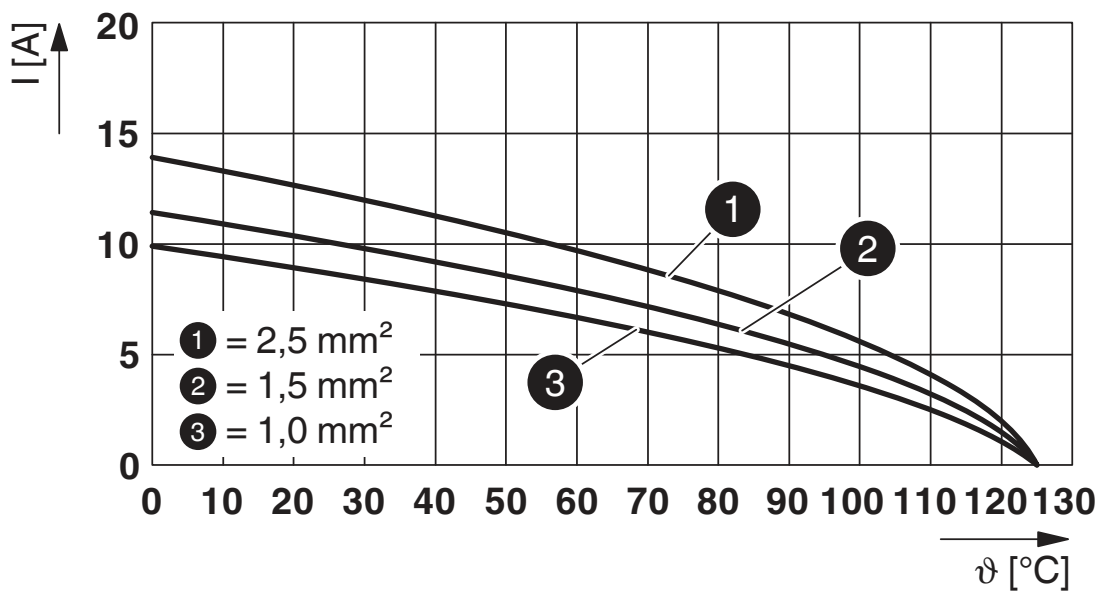
Drawings

Schematic diagram



Connector pin assignment, connection side

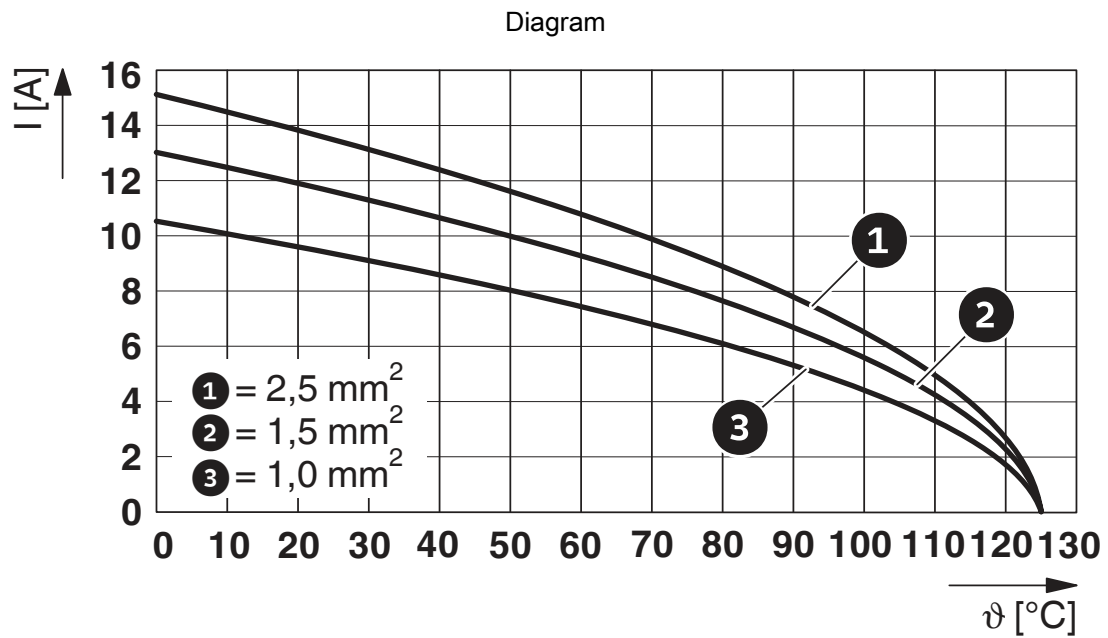
Diagram



Derating diagram rolled contacts

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Derating diagram turned contacts

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Classifications

ECLASS

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

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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-DD42-FP-F - Front plate

1201524

<https://www.phoenixcontact.com/us/products/1201524>



Guide element/front plate for the easy and secure connection of HC-DD series high-position connectors. Snap onto the contact insert. During connection, the pin contact is guided into place first, preventing contact with the socket contact.

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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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.



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

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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

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

1663446

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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-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

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

1266252

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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

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

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

1266296

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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

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

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

1266295

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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

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 24 ... 22

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

1674480

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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

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

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

1674943

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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

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

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

1674985

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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

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 mm² ... 1 mm², AWG 22 ... 17

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

1004366

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Crimp contact, contact diameter: 1.6 mm, rolled, Socket, contact material: Cu alloy, nickel-plated, contact surface: silver-plated, connection cross section: 1.5 mm² ... 2.5 mm², 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 mm² ... 1 mm², AWG 22 ... 17, Taped products

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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 mm² ... 2.5 mm², AWG 16 ... 14, Taped products

HC-CME-DD42-M - Power connector

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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

CRIMPFOX-TC 4 - Crimping pliers

1212113

<https://www.phoenixcontact.com/us/products/1212113>



Crimping pliers, for CK 1,6-ED..., CK 2,5-ED..., CK 4,0-ED... turned contacts, 4 marked die stations, unlockable pressure lock, lateral entry, incl. positioning tool

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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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Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com