

Contact insert module - HC-M-12-CT-F

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Contact insert module, number of positions: 12, power contacts: 0, control contacts: 12, Socket, Crimp connection, 250 V, 10 A, 0.14 mm² ... 2.5 mm², application: Signal

Commercial Data

Item number	1414355
Packing unit	5 pc
Minimum order quantity	5 pc
Product Key	BF7ACE
Catalog Page	Page 581 (C-2-2019)
GTIN	4055626024684
Weight per Piece (including packing)	9.5 g
Weight per Piece (excluding packing)	9.46 g
Customs tariff number	85389099
Country of origin	PL

Contact insert module - HC-M-12-CT-F

Technical Data

Notes

General	For housing type B6 to B48, HC-M-B...MF-... hinged module carrier frame required, CK1,6-ED... crimp contacts, crimp contacts not supplied as standard.
General	Connectors may be operated only when there is no load/voltage.

Product properties

Product type	Modular contact insert
Number of positions	12
Connection profile	12
Application	Signal
Number of module slots	1
No. of power contacts	0
No. of control contacts	12
Contact type	turned
	rolled
Series	HC-M-12

Insulation characteristics

Overvoltage category	III
Degree of pollution	3

Connection data

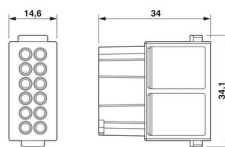
Connection technology

Connection technology	Crimp connection
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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 (6 mm (for 2.5 mm ²))

Dimensions

Dimensional drawing	
Width	34.2 mm
Height	34 mm
Length	14.6 mm

Mechanical characteristics

Minimum housing height	52 mm
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Contact insert module - HC-M-12-CT-F

Contact diameter	1.6 mm
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Electrical properties

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

Material specifications

Color	light grey
Flammability rating according to UL 94	V0
Contact material	Copper alloy
Contact surface material	Ag (alternatively Au)
Contact carrier material	PC
Standards/regulations	PC: Fire protection in rail vehicles - requirement sets R22, R23, and R24 acc. to DIN EN 45545-2 (Risk level HL1 - HL3)

Connector

Insertion/withdrawal cycles	≥ 500
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Cable / line

Stripping length of the individual wire	8 mm (6 mm (for 2.5 mm²))
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Mounting

Assembly instructions	To ensure correct use, installation in housing with IP54 protection or better is required
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Ambient conditions

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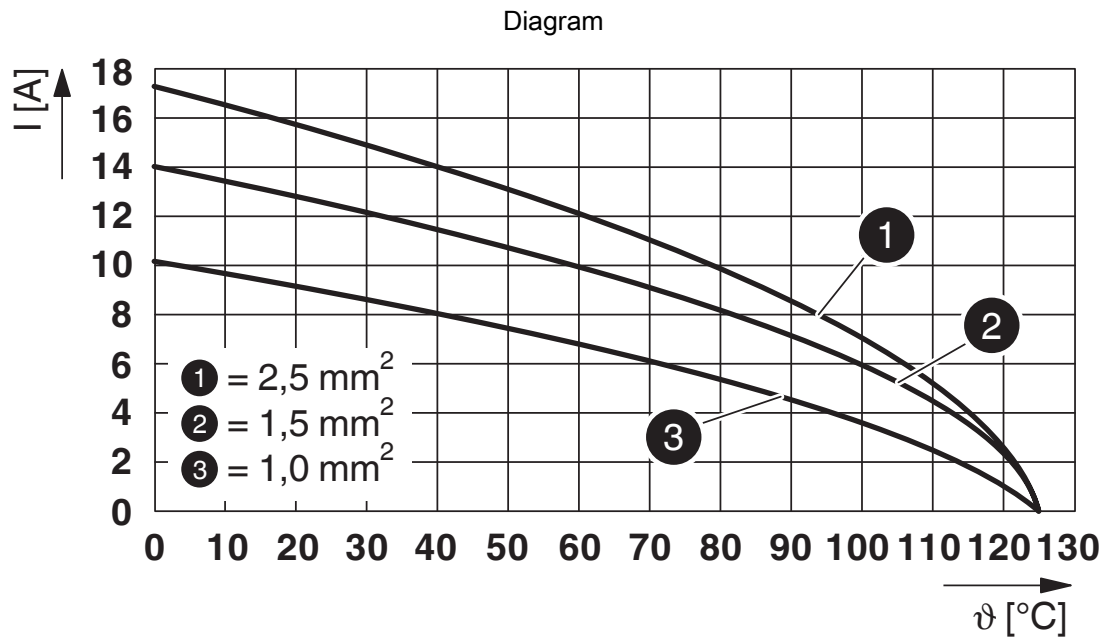
Standards and regulations

Testing

Standards/regulations	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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Contact insert module - HC-M-12-CT-F

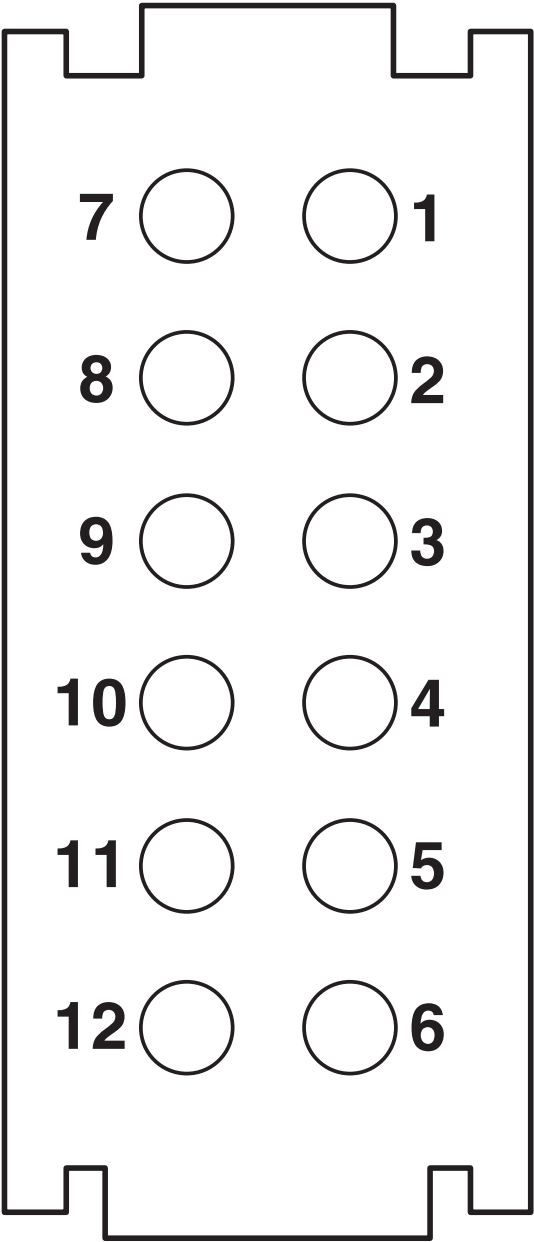
Drawings



Derating diagram turned contacts

Contact insert module - HC-M-12-CT-F

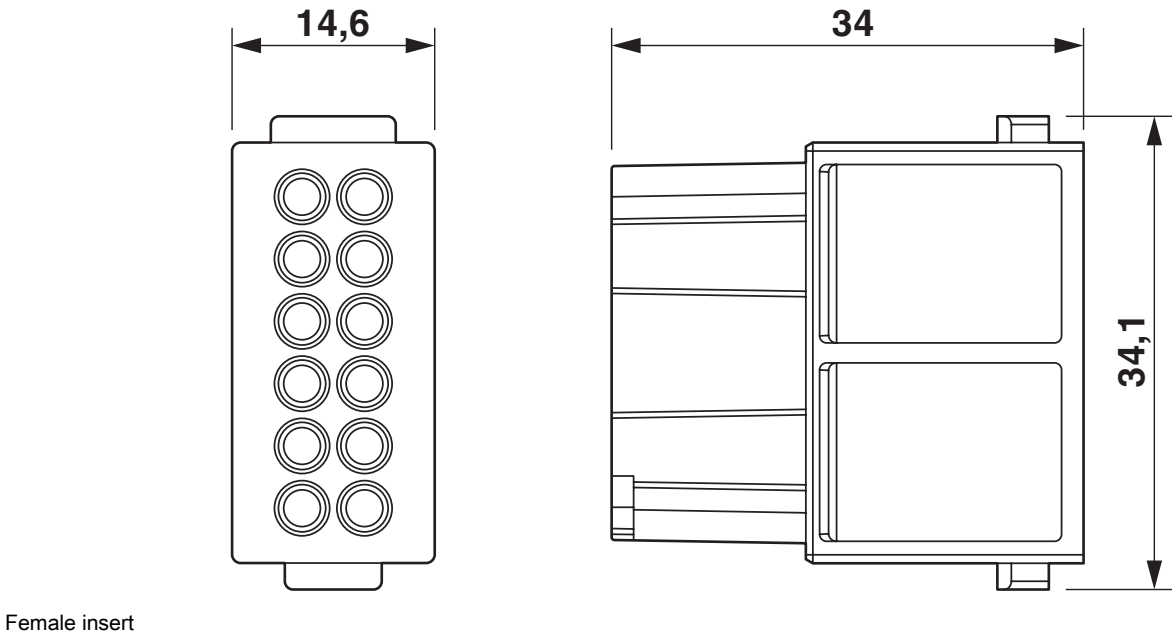
Schematic diagram



Connector pin assignment, connection side

Contact insert module - HC-M-12-CT-F

Dimensional drawing



Contact insert module - HC-M-12-CT-F

Approvals

DNV

Approval ID: TAE000037S



CSA

Approval ID: 13631

	Nominal Voltage U_N	Nominal Current I_N	Cross Section AWG	Cross Section mm^2
	600 V	12 A	- 14	-



UL Recognized

Approval ID: E118976

	Nominal Voltage U_N	Nominal Current I_N	Cross Section AWG	Cross Section mm^2
	600 V	16 A	- 14	-



EAC

Approval ID: RU C-DE.AI30.B.01102



EAC

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

Contact insert module - HC-M-12-CT-F

Classifications

ECLASS

ECLASS-9.0	27440217
ECLASS-10.0.1	27440217
ECLASS-11.0	27440217

ETIM

ETIM 8.0	EC000438
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UNSPSC

UNSPSC 21.0	39121400
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Contact insert module - HC-M-12-CT-F

Environmental Product Compliance

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

Contact insert module - HC-M-12-CT-F

Accessories

Coding element

Coding element - HC-CBU-MOD



Coding socket for coding up to 16 connectors, for HC Modular

Coding element

Coding element - HC-CST-MOD



Coding peg for coding up to 16 connectors, for HC Modular

Contact insert module - HC-M-12-CT-F

Coding element

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

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



Crimping pliers

Crimping pliers - CRIMPFOX-1,6-ED-POF-N

Crimping pliers for turned fiber optics contacts CK1,6-ED...POF



Contact insert module - HC-M-12-CT-F

Contact removal tool

Contact removal tool - UNIFOX RT-CK 1.6



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

Assembly tool

Assembly tool - UNIFOX MT-CK 1.6/2.5



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

Contact insert module - HC-M-12-CT-F

Cable lug

Cable lug - HC-M-MHR-PE16



Cable lug for MODULAR; PE connection extension to 16 mm², for crimping with crimp pliers

Crimp contact

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



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

Contact insert module - HC-M-12-CT-F

Crimp contact

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



Crimp contact, contact diameter: 1.6 mm, turned, Socket, contact material: Cu alloy, nickel-plated, contact surface: silver-plated, connection cross section: 0.5 mm² ... 0.5 mm², AWG 20

Crimp contact

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



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

Contact insert module - HC-M-12-CT-F

Crimp contact

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



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

Crimp contact

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



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

Contact insert module - HC-M-12-CT-F

Crimp contact

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



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

Female contact

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



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

Contact insert module - HC-M-12-CT-F

Crimp contact

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



Crimp contact, contact diameter: 1.6 mm, turned, Socket, contact material: Copper alloy, contact surface: silver-plated, connection cross section: 0.14 mm² ... 0.34 mm², AWG 24 ... 22, Lead-free

Crimp contact

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



Crimp contact, contact diameter: 1.6 mm, turned, Socket, contact material: Cu alloy, nickel-plated, contact surface: silver-plated, connection cross section: 0.5 mm² ... 0.5 mm², AWG 20, Lead-free

Contact insert module - HC-M-12-CT-F

Crimp contact

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



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, Lead-free

Crimp contact

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



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, Lead-free

Contact insert module - HC-M-12-CT-F

Crimp contact

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



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, Lead-free

Crimp contact

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



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, Lead-free

Contact insert module - HC-M-12-CT-F

Crimp contact

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



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

Crimp contact

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



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

Contact insert module - HC-M-12-CT-F

Crimp contact

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



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

Crimp contact

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



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

Contact insert module - HC-M-12-CT-F

Crimp contact

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



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

Crimp contact

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



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

Contact insert module - HC-M-12-CT-F

Crimp contact

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



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

Crimp contact

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



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

Contact insert module - HC-M-12-CT-F

Crimp contact

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



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

Crimp contact

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

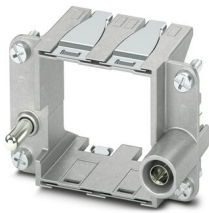


Crimp contact, contact diameter: 1.6 mm, rolled, Socket, contact material: Cu alloy, nickel-plated, contact surface: silver-plated, connection cross section: 1.5 mm² ... 2.5 mm², AWG 16 ... 14, Taped products

Contact insert module - HC-M-12-CT-F

Module carrier frame

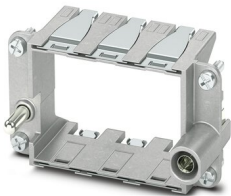
Module carrier frame - HC-M-B06-MFH-B



Module carrier frame, size: B6, type : for the panel mounting side (a, b, c, ...), 4 mm² ... 6 mm², application: Module carrier frame

Module carrier frame

Module carrier frame - HC-M-B10-MFH-B



Module carrier frame, size: B10, type : for the panel mounting side (a, b, c, ...), 4 mm² ... 6 mm², application: Module carrier frame

Contact insert module - HC-M-12-CT-F

Module carrier frame

Module carrier frame - HC-M-B16-MFH-B

Module carrier frame, size: B16, type : for the panel mounting side (a, b, c, ...), 4 mm² ... 6 mm², application: Module carrier frame



Module carrier frame

Module carrier frame - HC-M-B24-MFH-B

Module carrier frame, size: B24, type : for the panel mounting side (a, b, c, ...), 4 mm² ... 6 mm², application: Module carrier frame



Contact insert module - HC-M-12-CT-F

Module carrier frame

Module carrier frame - HC-M-B06-MFH-H



Module carrier frame, size: B6, type : for the sleeve side (A, B, C, ...), 4 mm² ... 6 mm², application: Module carrier frame

Module carrier frame

Module carrier frame - HC-M-B10-MFH-H



Module carrier frame, size: B10, type : for the sleeve side (A, B, C, ...), 4 mm² ... 6 mm², application: Module carrier frame

Contact insert module - HC-M-12-CT-F

Module carrier frame

Module carrier frame - HC-M-B16-MFH-H

Module carrier frame, size: B16, type : for the sleeve side (A, B, C, ...), 4 mm² ...
6 mm², application: Module carrier frame



Module carrier frame

Module carrier frame - HC-M-B24-MFH-H

Module carrier frame, size: B24, type : for the sleeve side (A, B, C, ...), 4 mm² ...
6 mm², application: Module carrier frame



Contact insert module - HC-M-12-CT-F

Crimping pliers with digital display

Crimping pliers with digital display - CRIMPFOX-TC MP-6



Crimping tool, for turned contacts, universal cross-section setting, up to a maximum of 6.0 mm², digital display with 0.01 mm increments, pressure lock can be unlocked, positioning tool necessary as an accessory for contact positioning

Crimping pliers

Crimping pliers - CRIMPFOX-1,6/2,5-ED-4,0



Crimping pliers, for turned contacts, CK 1.6 ED... and CK 2.5 ED...

Contact insert module - HC-M-12-CT-F

Crimping pliers

Crimping pliers - CRIMPFOX-TC 4



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

Contact insert module

Contact insert module - HC-M-12-CT-M



Contact insert module, number of positions: 12, power contacts: 0, control contacts: 12, Pin, Crimp connection, 250 V, 10 A, 0.14 mm² ... 2.5 mm², application: Signal
