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

1414354

https://www.phoenixcontact.com/pc/products/1414354

Please be informed that the data shown in this PDF document is generated from our Online Catalog. Please find the complete data in the user documentation. Our General Terms of Use for Downloads are valid.



Contact insert module, number of positions: 12, power contacts: 0, control contacts: 12, Pin, Crimp connection, 250 V, 10 A, 0.14 mm^2 ... 2.5 mm^2, application: Signal

Commercial Data

Item number	1414354
Packing unit	5 pc
Minimum order quantity	5 pc
Product Key	BF7ACE
Catalog Page	Page 581 (C-2-2019)
GTIN	4055626024677
Weight per Piece (including packing)	9.2 g
Weight per Piece (excluding packing)	8.92 g
Customs tariff number	85389099
Country of origin	PL

Technical Data

Notes

General	For HEAVYCON 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

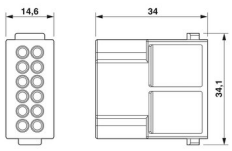
Connection technology

Connection technology	Crimp connection

Conductor connection

Conductor cross section	0.14 mm² ... 2.5 mm²
Connection cross section AWG	26 ... 14
Stripping length of the individual wire	8 mm (6 mm (for 2.5 mm²))

Dimensions

Dimensional drawing	
Width	34.2 mm
Height	34 mm
Length	14.6 mm

Mechanical characteristics

Minimum housing height	52 mm

Contact diameter	1.6 mm

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

Cable / line

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

Mounting

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

Ambient conditions

Ambient temperature (operation)	-40 °C ... 125 °C

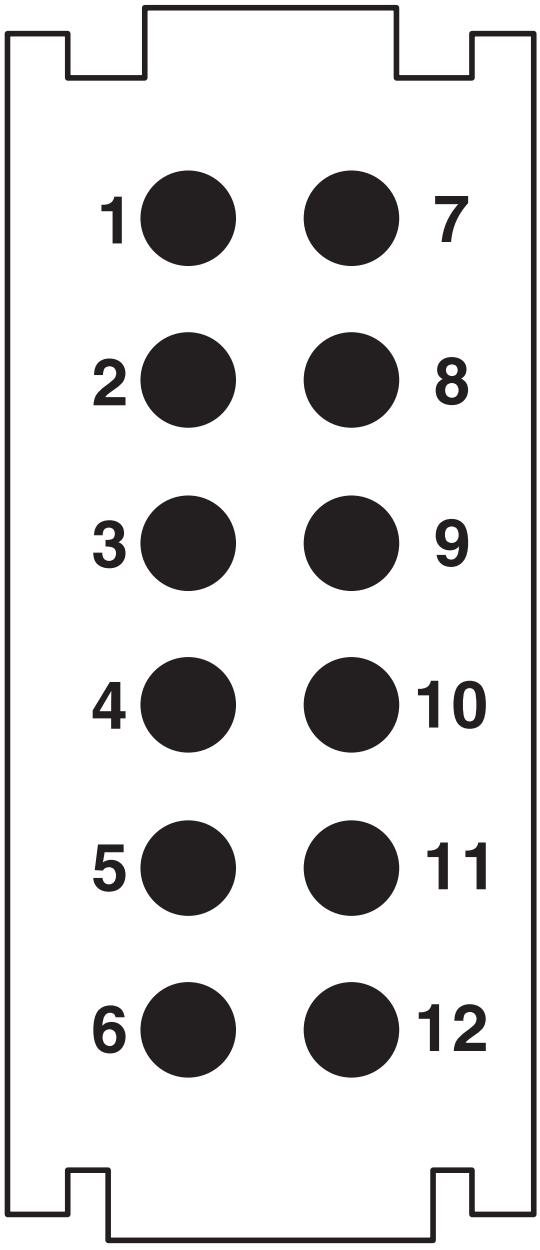
Standards and regulations

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)

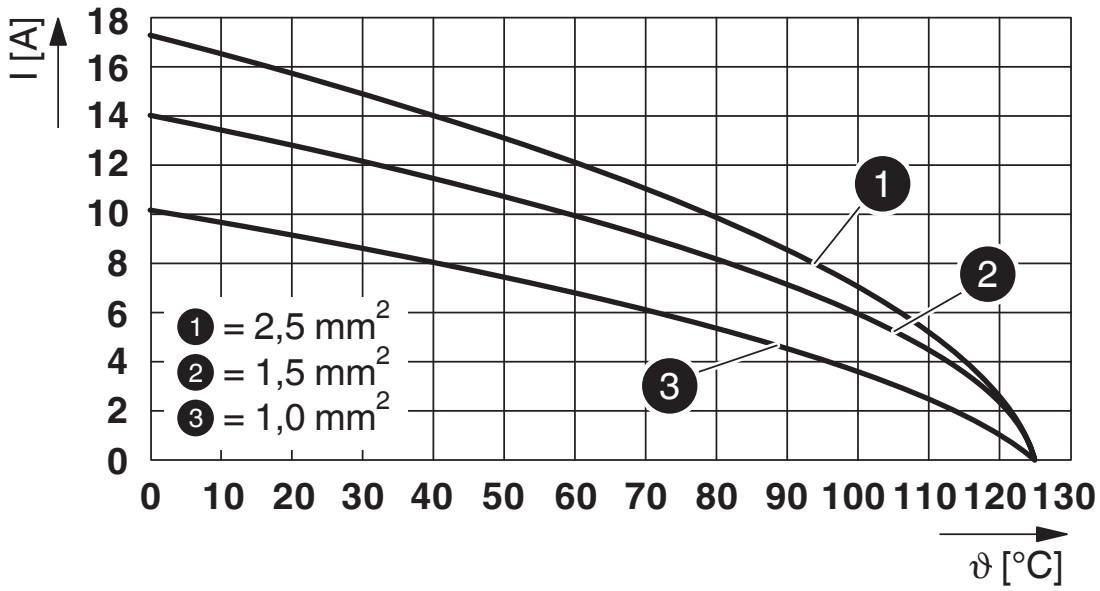
Drawings

Schematic diagram



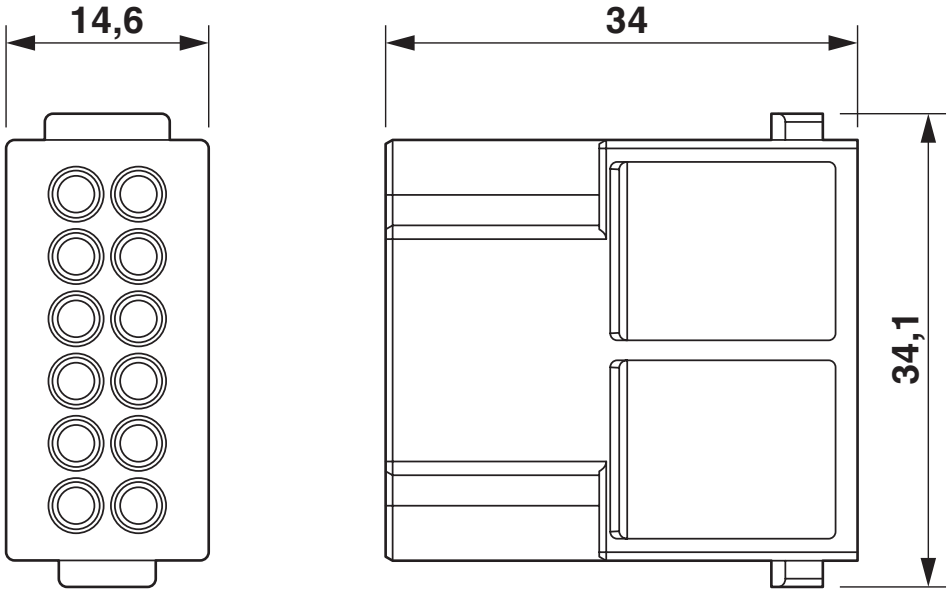
Connector pin assignment, connection side

Diagram



Derating diagram turned contacts

Dimensional drawing



Male insert

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

Classifications

ECLASS

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

ETIM

ETIM 8.0	EC000438

UNSPSC

UNSPSC 21.0	39121400

Environmental Product Compliance

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

Accessories

Coding element

Coding element - HC-CBU-MOD - 1636130

https://www.phoenixcontact.com/pc/products/1636130



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

Coding element

Coding element - HC-CST-MOD - 1636127

https://www.phoenixcontact.com/pc/products/1636127



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

Crimping pliers

Crimping pliers - CRIMPFOX-1,6-ED-POF-N - 1584839

https://www.phoenixcontact.com/pc/products/1584839



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

Contact removal tool

Contact removal tool - UNIFOX RT-CK 1.6 - 1072069

https://www.phoenixcontact.com/pc/products/1072069



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

Assembly tool

Assembly tool - UNIFOX MT-CK 1.6/2.5 - 1089092

https://www.phoenixcontact.com/pc/products/1089092



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

Cable lug

Cable lug - HC-M-MHR-PE16 - 1636981

https://www.phoenixcontact.com/pc/products/1636981



Cable lug for HEAVYCON-MODULAR; PE connection extension to 16 mm^2, for crimping with crimp pliers

Crimp contact

Crimp contact - CK1,6-ED-0,37ST AG - 1663336

https://www.phoenixcontact.com/pc/products/1663336



Crimp contact, contact diameter: 1.6 mm, turned, Pin, contact material: Copper alloy, contact surface: silver-plated, connection cross section: 0.14 mm^2 ... 0.37 mm^2, AWG 26 ... 22

Crimp contact

Crimp contact - CK1,6-ED-0,50ST AG - 1663349

https://www.phoenixcontact.com/pc/products/1663349



Crimp contact, contact diameter: 1.6 mm, turned, Pin, contact material: Cu alloy, nickel-plated, contact surface: silver-plated, connection cross section: 0.5 mm^2 ... 0.5 mm^2, AWG 20

Crimp contact

Crimp contact - CK1,6-ED-0,75ST AG - 1663352

https://www.phoenixcontact.com/pc/products/1663352



Crimp contact, contact diameter: 1.6 mm, turned, Pin, contact material: Copper alloy, contact surface: silver-plated, connection cross section: 0.75 mm^2 ... 0.75 mm^2, AWG 18

Crimp contact

Crimp contact - CK1,6-ED-1,00ST AG - 1663365

https://www.phoenixcontact.com/pc/products/1663365



Crimp contact, contact diameter: 1.6 mm, turned, Pin, contact material: Copper alloy, contact surface: silver-plated, connection cross section: 1 mm^2 ... 1 mm^2, AWG 18

Crimp contact

Crimp contact - CK1,6-ED-1,50ST AG - 1663378

https://www.phoenixcontact.com/pc/products/1663378



Crimp contact, contact diameter: 1.6 mm, turned, Pin, contact material: Copper alloy, contact surface: silver-plated, connection cross section: 1.5 mm^2 ... 1.5 mm^2, AWG 16

Crimp contact

Crimp contact - CK1,6-ED-2,50ST AG - 1663381

https://www.phoenixcontact.com/pc/products/1663381



Crimp contact, contact diameter: 1.6 mm, turned, Pin, contact material: Copper alloy, contact surface: silver-plated, connection cross section: 2.5 mm^2 ... 2.5 mm^2, AWG 14

Male contact

Male contact - CK1,6-ED-ST-POF - 1884995

https://www.phoenixcontact.com/pc/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

Crimp contact

Crimp contact - CK1,6-ED-0,37M AG - 1266193

https://www.phoenixcontact.com/pc/products/1266193



Crimp contact, contact diameter: 1.6 mm, turned, Pin, contact material: Copper alloy, contact surface: silver-plated, connection cross section: 0.14 mm^2 ... 0.34 mm^2, AWG 26 ... 22, Lead-free

Crimp contact

Crimp contact - CK1,6-ED-0,50M AG - 1266195

https://www.phoenixcontact.com/pc/products/1266195



Crimp contact, contact diameter: 1.6 mm, turned, Pin, contact material: Cu alloy, nickel-plated, contact surface: silver-plated, connection cross section: 0.5 mm^2 ... 0.5 mm^2, AWG 20, Lead-free

Crimp contact

Crimp contact - CK1,6-ED-1,50M AG - 1266245

https://www.phoenixcontact.com/pc/products/1266245



Crimp contact, contact diameter: 1.6 mm, turned, Pin, contact material: Copper alloy, contact surface: silver-plated, connection cross section: 1.5 mm^2 ... 1.5 mm^2, AWG 16, Lead-free

Crimp contact

Crimp contact - CK1,6-ED-0,75M AG - 1266450

https://www.phoenixcontact.com/pc/products/1266450



Crimp contact, contact diameter: 1.6 mm, turned, Pin, contact material: Copper alloy, contact surface: silver-plated, connection cross section: 0.75 mm^2 ... 0.75 mm^2, AWG 18, Lead-free

Crimp contact

Crimp contact - CK1,6-ED-1,00M AG - 1266244

https://www.phoenixcontact.com/pc/products/1266244



Crimp contact, contact diameter: 1.6 mm, turned, Pin, contact material: Copper alloy, contact surface: silver-plated, connection cross section: 1 mm^2 ... 1 mm^2, AWG 18, Lead-free

Crimp contact

Crimp contact - CK1,6-ED-2,50M AG - 1266247

https://www.phoenixcontact.com/pc/products/1266247



Crimp contact, contact diameter: 1.6 mm, turned, Pin, contact material: Copper alloy, contact surface: silver-plated, connection cross section: 2.5 mm^2 ... 2.5 mm^2, AWG 14, Lead-free

Crimp contact

Crimp contact - CK1,6-ED-0,37ST AU - 1674901

https://www.phoenixcontact.com/pc/products/1674901



Crimp contact, contact diameter: 1.6 mm, turned, Pin, contact material: Copper alloy, contact surface: gold-plated, connection cross section: 0.14 mm^2 ... 0.37 mm^2, AWG 22 ... 24

Crimp contact

Crimp contact - CK1,6-ED-0,50ST AU - 1672453

https://www.phoenixcontact.com/pc/products/1672453



Crimp contact, contact diameter: 1.6 mm, turned, Pin, contact material: Copper alloy, contact surface: gold-plated, connection cross section: 0.5 mm^2 ... 0.5 mm^2, AWG 20

Crimp contact

Crimp contact - CK1,6-ED-0,75ST AU - 1674914

https://www.phoenixcontact.com/pc/products/1674914



Crimp contact, contact diameter: 1.6 mm, turned, Pin, contact material: Copper alloy, contact surface: gold-plated, connection cross section: 0.75 mm^2 ... 0.75 mm^2, AWG 18

Crimp contact

Crimp contact - CK1,6-ED-1,00ST AU - 1674888

https://www.phoenixcontact.com/pc/products/1674888



Crimp contact, contact diameter: 1.6 mm, turned, Pin, contact material: Copper alloy, contact surface: gold-plated, connection cross section: 1 mm^2 ... 1 mm^2, AWG 18

Crimp contact

Crimp contact - CK1,6-ED-1,50ST AU - 1674875

https://www.phoenixcontact.com/pc/products/1674875



Crimp contact, contact diameter: 1.6 mm, turned, Pin, contact material: Copper alloy, contact surface: gold-plated, connection cross section: 1.5 mm^2 ... 1.5 mm^2, AWG 16

Crimp contact

Crimp contact - CK1,6-ED-2,50ST AU - 1674927

https://www.phoenixcontact.com/pc/products/1674927



Crimp contact, contact diameter: 1.6 mm, turned, Pin, contact material: Copper alloy, contact surface: gold-plated, connection cross section: 2.5 mm^2 ... 2.5 mm^2, AWG 14

Crimp contact

Crimp contact - CK1,6-ER-1,00ST OIC AG - 1004360

https://www.phoenixcontact.com/pc/products/1004360



Crimp contact, contact diameter: 1.6 mm, rolled, Pin, contact material: Cu alloy, nickel-plated, contact surface: silver-plated, connection cross section: 0.34 mm^2 ... 1 mm^2, AWG 22 ... 17

Crimp contact

Crimp contact - CK1,6-ER-2,50ST OIC AG - 1004365

https://www.phoenixcontact.com/pc/products/1004365



Crimp contact, contact diameter: 1.6 mm, rolled, Pin, contact material: Cu alloy, nickel-plated, contact surface: silver-plated, connection cross section: 1.5 mm^2 ... 2.5 mm^2, AWG 16 ... 14

Crimp contact

Crimp contact - CK1,6-BR-1,00ST OIC AG - 1004380

https://www.phoenixcontact.com/pc/products/1004380



Crimp contact, contact diameter: 1.6 mm, rolled, Pin, contact material: Cu alloy, nickel-plated, contact surface: silver-plated, connection cross section: 0.34 mm^2 ... 1 mm^2, AWG 22 ... 17, Taped products

Crimp contact

Crimp contact - CK1,6-BR-2,50ST OIC AG - 1004382

https://www.phoenixcontact.com/pc/products/1004382

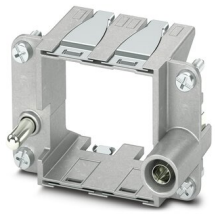


Crimp contact, contact diameter: 1.6 mm, rolled, Pin, contact material: Cu alloy, nickel-plated, contact surface: silver-plated, connection cross section: 1.5 mm^2 ... 2.5 mm^2, AWG 16 ... 14, Taped products

Module carrier frame

Module carrier frame - HC-M-B06-MFH-B - 1182085

https://www.phoenixcontact.com/pc/products/1182085



Module carrier frame, size: B6, type : for the panel mounting side (a, b, c, ...), 4 mm^2 ... 6 mm^2, application: Module carrier frame

Module carrier frame

Module carrier frame - HC-M-B10-MFH-B - 1182088

https://www.phoenixcontact.com/pc/products/1182088



Module carrier frame, size: B10, type : for the panel mounting side (a, b, c, ...), 4 mm^2 ... 6 mm^2, application: Module carrier frame

Module carrier frame

Module carrier frame - HC-M-B16-MFH-B - 1182090

https://www.phoenixcontact.com/pc/products/1182090



Module carrier frame, size: B16, type : for the panel mounting side (a, b, c, ...), 4 mm^2 ... 6 mm^2, application: Module carrier frame

Module carrier frame

Module carrier frame - HC-M-B24-MFH-B - 1182094

https://www.phoenixcontact.com/pc/products/1182094



Module carrier frame, size: B24, type : for the panel mounting side (a, b, c, ...), 4 mm^2 ... 6 mm^2, application: Module carrier frame

Module carrier frame

Module carrier frame - HC-M-B06-MFH-H - 1182087

https://www.phoenixcontact.com/pc/products/1182087

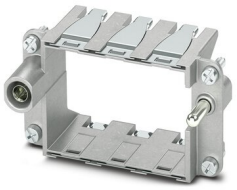


Module carrier frame, size: B6, type : for the sleeve side (A, B, C, ...), 4 mm^2 ... 6 mm^2, application: Module carrier frame

Module carrier frame

Module carrier frame - HC-M-B10-MFH-H - 1182089

https://www.phoenixcontact.com/pc/products/1182089



Module carrier frame, size: B10, type : for the sleeve side (A, B, C, ...), 4 mm^2 ... 6 mm^2, application: Module carrier frame

Module carrier frame

Module carrier frame - HC-M-B16-MFH-H - 1182093

https://www.phoenixcontact.com/pc/products/1182093



Module carrier frame, size: B16, type : for the sleeve side (A, B, C, ...), 4 mm^2 ... 6 mm^2, application: Module carrier frame

Module carrier frame

Module carrier frame - HC-M-B24-MFH-H - 1182095

https://www.phoenixcontact.com/pc/products/1182095



Module carrier frame, size: B24, type : for the sleeve side (A, B, C, ...), 4 mm^2 ... 6 mm^2, application: Module carrier frame

Crimping pliers with digital display

Crimping pliers with digital display - CRIMPFOX-TC MP-6 - 1202888

https://www.phoenixcontact.com/pc/products/1202888



Crimping tool, for turned contacts, universal cross-section setting, up to a maximum of 6.0 mm^2, 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 - 1687419

https://www.phoenixcontact.com/pc/products/1687419



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

Crimping pliers

Crimping pliers - CRIMPFOX-TC 4 - 1212113

https://www.phoenixcontact.com/pc/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

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

1414354

https://www.phoenixcontact.com/pc/products/1414354

Contact insert module

Contact insert module - HC-M-12-CT-F - 1414355

https://www.phoenixcontact.com/pc/products/1414355



Contact insert module, number of positions: 12, power contacts: 0, control contacts: 12, Socket, Crimp connection, 250 V, 10 A, 0.14 mm^2 ... 2.5 mm^2, application: Signal

Phoenix Contact 2022 © - all rights reserved
https://www.phoenixcontact.com

PHOENIX CONTACT GmbH & Co. KG
Flachsmarktstraße 8
D-32825 Blomberg
+49 (0) 5235-3 00
info@phoenixcontact.com