Contact insert module - HC-M-12-PT-M

1424246

https://www.phoenixcontact.com/us/products/1424246

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Contact insert module, number of positions: 12, power contacts: 0, control contacts: 12, Pin, Push-in connection, 250 V, 10 A, 0.14 mm^2 ... 1.5 mm^2, application: Signal

Your advantages

- Easy installation without tools, even when mounted, with push-in connection technology
- Shortest installation time compared to other connection technologies
- Quick and effortless wiring, in particular when space is tight
- Automatic cabling with robots possible
- Safe wiring and operation with color-coded actuators
- Shock and vibration-resistant in accordance with DIN EN 61373

Commercial Data

Item number	1424246
Packing unit	1 pc
Minimum order quantity	1 pc
Sales Key	B10
Product Key	BF7ACE
Catalog Page	Page 577 (C-2-2019)
GTIN	4055626369600
Weight per Piece (including packing)	21.94 g
Weight per Piece (excluding packing)	21 g
Customs tariff number	85366990
Country of origin	PL

Technical Data

Notes

General	only use flexible conductors with ferrules
General	Connectors may be operated only when there is no load/voltage.
General	For HEAVYCON housing type B6 to B48, HC-M-B...MF-... hinged module carrier frame required.

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
Series	HC-M-12

Insulation characteristics

Overvoltage category	III
Degree of pollution	3

Connection data

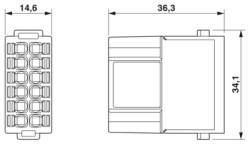
Connection technology

Connection technology	Push-in connection

Conductor connection

Conductor cross section	0.14 mm² ... 1.5 mm²
Connection cross section AWG	26 ... 16
Stripping length of the individual wire	8 mm

Dimensions

Dimensional drawing	
Width	34.1 mm
Height	36.3 mm
Length	14.6 mm

Mechanical characteristics

Contact diameter	1.6 mm

Electrical properties

Rated voltage (III/2) contacts	400 V
Rated voltage (III/3)	250 V
Rated surge voltage (III/2)	4 kV
Rated surge voltage (III/3)	4 kV
Rated surge voltage	4 kV
Rated current	10 A

Material specifications

Color	light gray
Flammability rating according to UL 94	V0
Contact material	Copper alloy
Contact surface material	Ag
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

Cable structure

Stripping length of the individual wire	8 mm

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

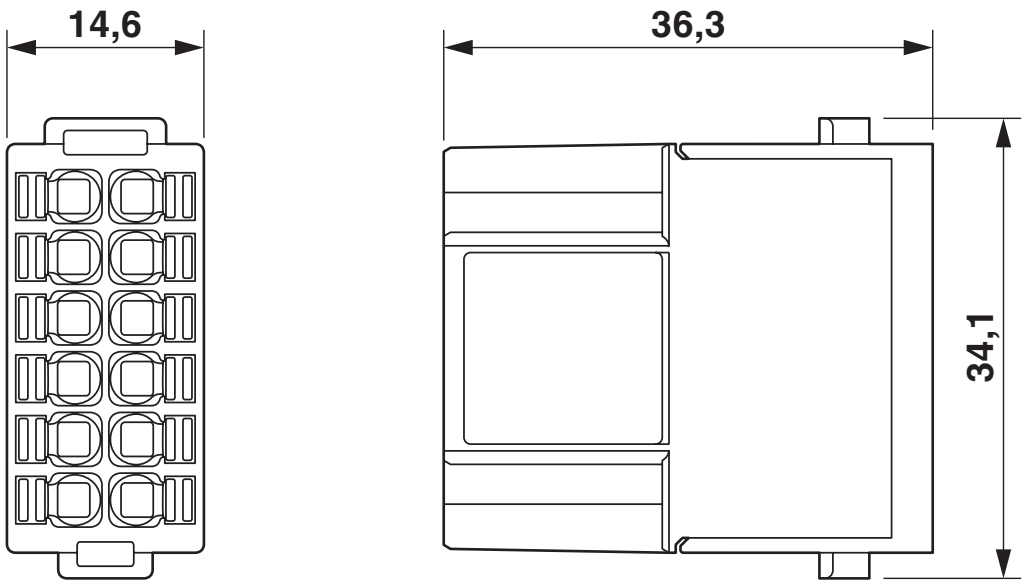
Standards and regulations

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)

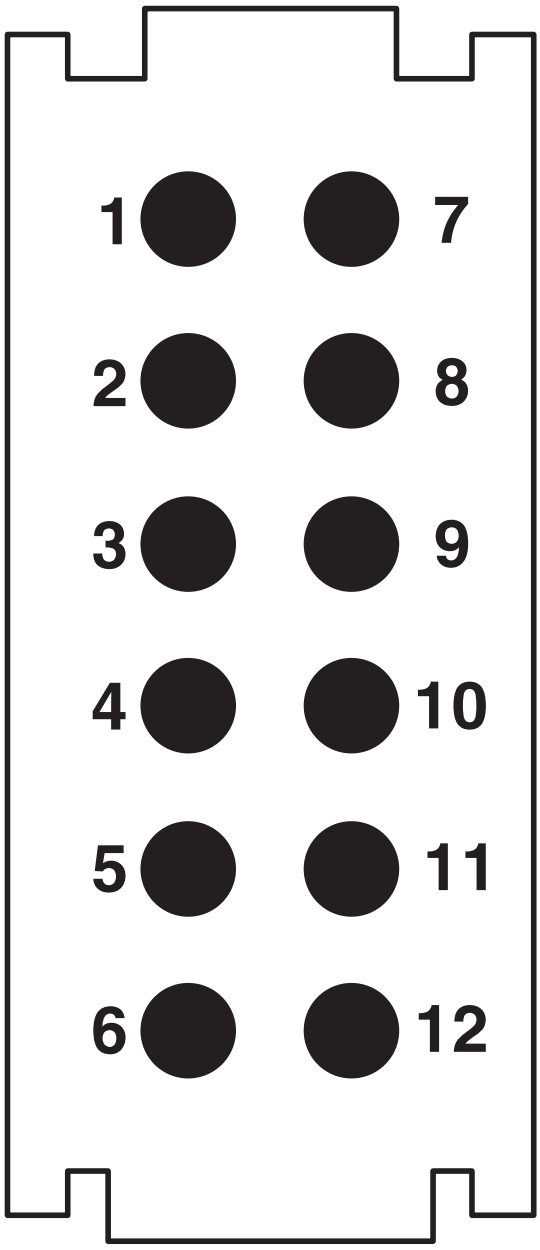
Drawings

Dimensional drawing



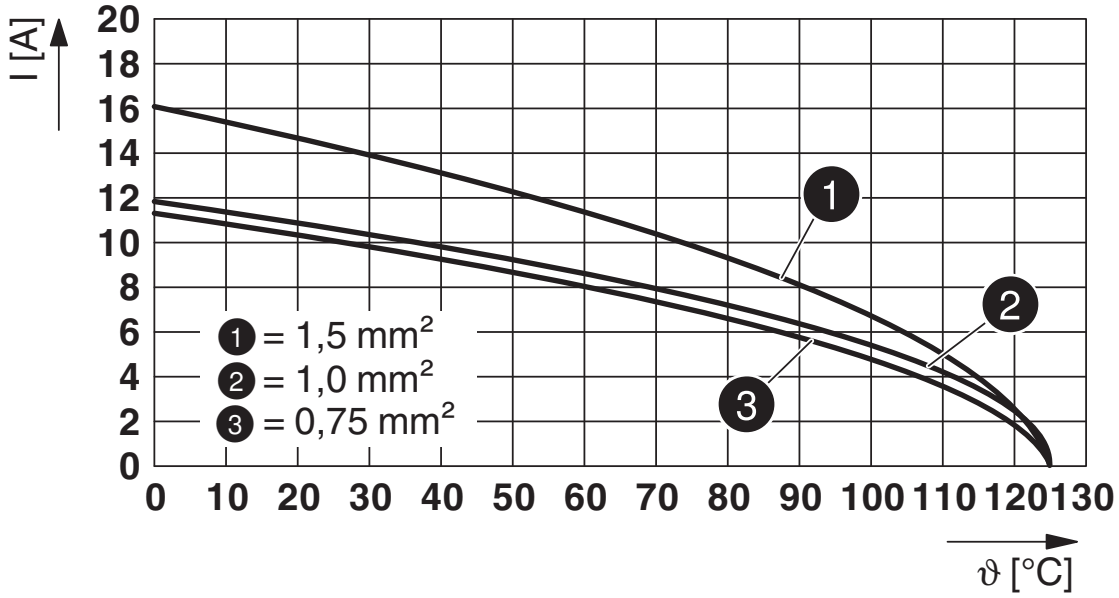
Dimensional drawing

Schematic diagram



Connector pin assignment, connection side

Diagram



Derating diagram

Approvals

UL Recognized
Approval ID: E118976

	Nominal Voltage U_N	Nominal Current I_N	Cross Section AWG	Cross Section mm^2
	600 V	10 A	- 16	-

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	39121421

Environmental Product Compliance

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

Accessories

Electrical crimping tool

Electrical crimping tool - CF CRIMPHANDY 0,5 - 1212463

https://www.phoenixcontact.com/us/products/1212463



Mobile handheld device, battery-powered, for processing on-tape ferrules 0.5 mm^2 with functional end, suitable for PVC insulated conductors (H05V-K), incl. battery, charger, CUTFOX 12 cable cutter, waste guide plate 2, service tool for error correction, and one strip of ferrules 0.5 mm^2, packed in a robust case.

Electrical crimping tool

Electrical crimping tool - CF CRIMPHANDY 0,75 - 1212464

https://www.phoenixcontact.com/us/products/1212464



Mobile handheld device, battery-powered, for processing on-tape ferrules 0.75 mm^2 with functional end, suitable for PVC insulated conductors (H05V-K), incl. battery, charger, CUTFOX 12 cable cutter, waste guide plate 2, service tool for error correction, and one strip of ferrules 0.75 mm^2, packed in a robust case.

Electrical crimping tool

Electrical crimping tool - CF CRIMPHANDY 1,0 - 1212465

https://www.phoenixcontact.com/us/products/1212465



Mobile handheld device, battery-powered, for processing on-tape ferrules 1.0 mm^2 with functional end, suitable for PVC insulated conductors (H05V-K), incl. battery, charger, CUTFOX 12 cable cutter, waste guide plate 2, service tool for error correction, and one strip of ferrules 1.0 mm^2, packed in a robust case.

Electrical crimping tool

Electrical crimping tool - CF CRIMPHANDY 1,5 - 1212466

https://www.phoenixcontact.com/us/products/1212466



Mobile handheld device, battery-powered, for processing on-tape ferrules 1.5 mm^2 with functional end, suitable for PVC insulated conductors (H07V-K), incl. battery, charger, CUTFOX 12 cable cutter, waste guide plate 2, service tool for error correction, and one strip of ferrules 1.5 mm^2, packed in a robust case.

Module carrier frame

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

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

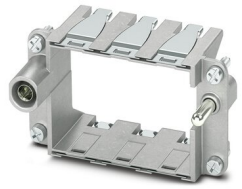


Module carrier frame, size: B6, type : for the sleeve side (A, B, C, ...), 4 mm^2 ... 6 mm^2, application: Module carrier frame

Module carrier frame

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

https://www.phoenixcontact.com/us/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/us/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/us/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



Coding element

Coding element - HC-CBU-MOD - 1636130

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



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

Crimping pliers

Crimping pliers - CRIMPFOX CENTRUS 6S - 1213144

https://www.phoenixcontact.com/us/products/1213144



Crimping pliers, for uninsulated and insulated ferrules, DIN 46228 Part 1 and 4, from 0.14 mm^2 ... 6 mm^2, also for TWIN ferrules up to 2 x 4 mm^2, automatic cross section adjustment, lateral insertion, equipped with fall protection

Crimping pliers

Crimping pliers - CRIMPFOX CENTRUS 10S - 1213154

https://www.phoenixcontact.com/us/products/1213154



Crimping pliers, for uninsulated and insulated ferrules, DIN 46228 Part 1 and 4, from 0.14 mm^2 ... 10 mm^2, also for TWIN ferrules up to 2 x 4 mm^2, automatic cross section adjustment, lateral insertion, equipped with fall protection

Crimping pliers

Crimping pliers - CRIMPFOX 6 - 1212034

https://www.phoenixcontact.com/us/products/1212034



Crimping pliers, for ferrules without insulating collar according to DIN 46228 Part 1 and ferrules with insulating collar according to DIN 46228 Part 4, 0.25 mm^2 ... 6.0 mm^2, lateral entry, trapezoidal crimp

Crimping pliers

Crimping pliers - CRIMPFOX 10S - 1212045

https://www.phoenixcontact.com/us/products/1212045



Crimping pliers, for ferrules without insulating collar according to DIN 46228 Part 1 and ferrules with insulating collar according to DIN 46228 Part 4, 0.14 mm^2 ... 10 mm^2, unlockable pressure lock, lateral entry

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Contact insert module

Contact insert module - HC-M-12-PT-F - 1424228

https://www.phoenixcontact.com/us/products/1424228



Contact insert module, number of positions: 12, power contacts: 0, control contacts: 12, Socket, Push-in connection, 250 V, 10 A, 0.14 mm^2 ... 1.5 mm^2, application: Signal

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