

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



1424246

<https://www.phoenixcontact.com/gb/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<sup>2</sup> ... 1.5 mm<sup>2</sup>, 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	BF7ACE
Product key	BF7ACE
Catalog page	Page 577 (C-2-2019)
GTIN	4055626369600
Weight per piece (including packing)	22.133 g
Weight per piece (excluding packing)	21 g
Customs tariff number	85366990
Country of origin	PL

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



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## 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.

### Mounting

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

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

### Insulation characteristics

Overvoltage category	III
Degree of pollution	3

### Connection data

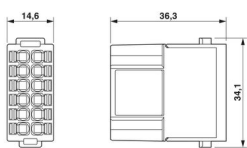
#### Connection technology

Connection technology	Push-in connection
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#### Conductor connection

Conductor cross section	0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
Connection cross section AWG	26 ... 16
Stripping length of the individual wire	8 mm

### Dimensions

Dimensional drawing	
Width	34.1 mm

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Height	36.3 mm
Length	14.6 mm

## Mechanical characteristics

Contact diameter	1.6 mm
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## 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

## 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
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)

## Environmental and real-life conditions

### Ambient conditions

Ambient temperature (operation)	-40 °C ... 125 °C
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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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# HC-M-12-PT-M - Contact insert module

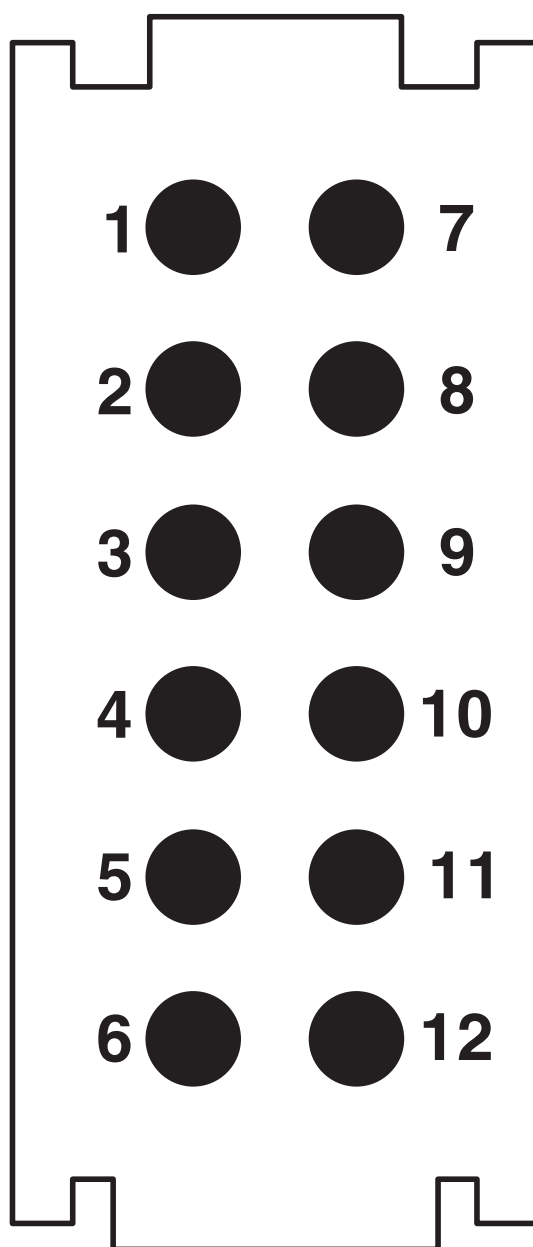
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## Drawings

Schematic diagram



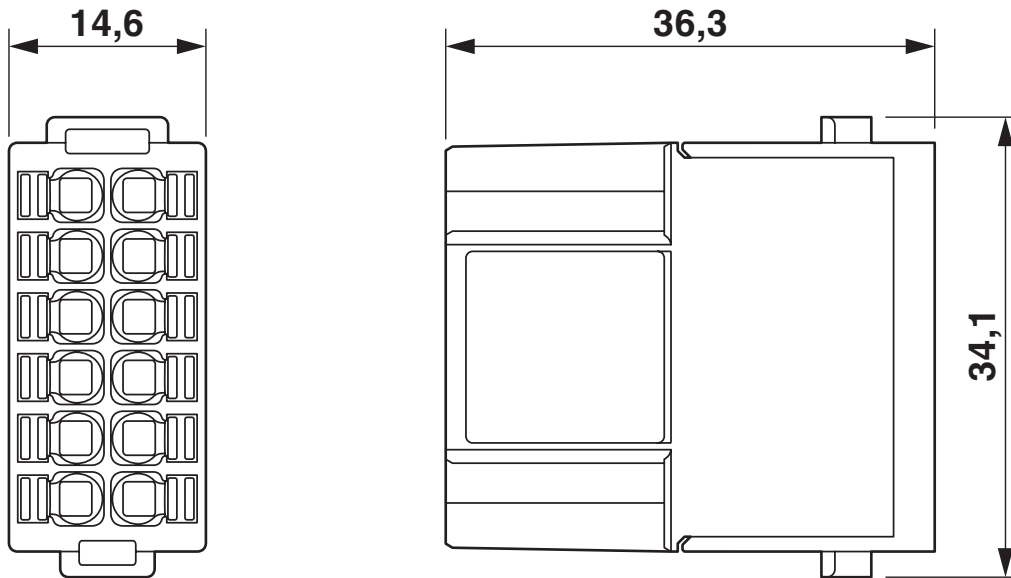
Connector pin assignment, connection side

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

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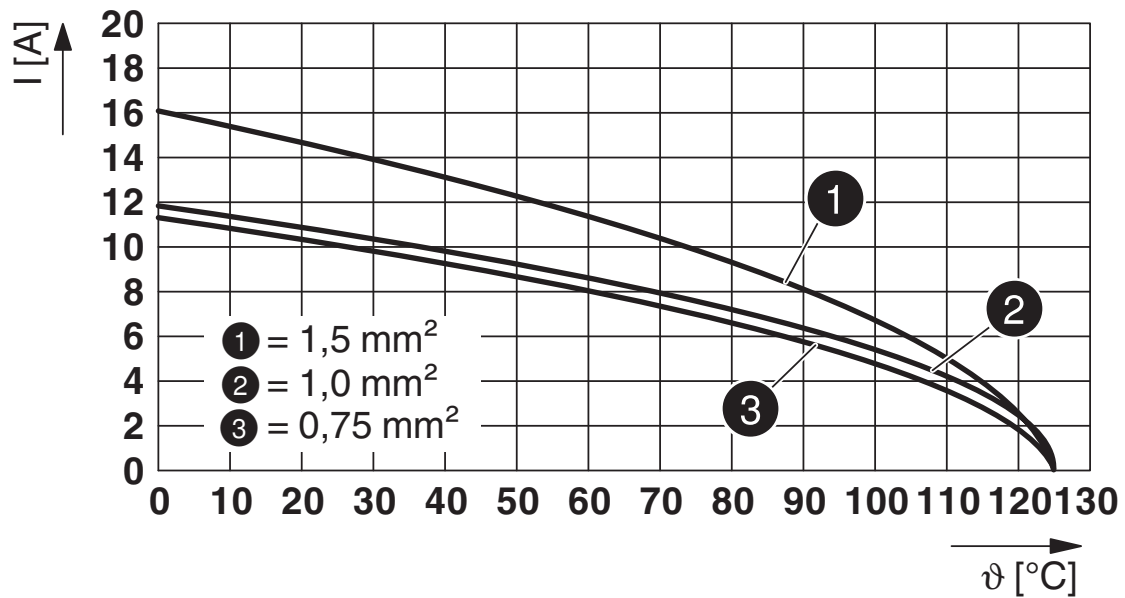
<https://www.phoenixcontact.com/gb/products/1424246>

Dimensional drawing



Dimensional drawing

Diagram



Derating diagram

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/gb/products/1424246>

 <b>UL Recognized</b> Approval ID: E118976				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
	600 V	10 A	- 16	-

 <b>EAC</b> Approval ID: RU C-DE.BL08.B.00511				
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 <b>UL Recognized</b> Approval ID: E468743				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
	600 V	10 A	-	-

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## Classifications

### ECLASS

ECLASS-11.0	27440217
ECLASS-12.0	27440217
ECLASS-13.0	27440217

### ETIM

ETIM 9.0	EC000438
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### UNSPSC

UNSPSC 21.0	39121400
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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-CBU-MOD - Coding element

1636130

<https://www.phoenixcontact.com/gb/products/1636130>



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

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### HC-CST-MOD - Coding element

1636127

<https://www.phoenixcontact.com/gb/products/1636127>



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

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

1182085

<https://www.phoenixcontact.com/gb/products/1182085>



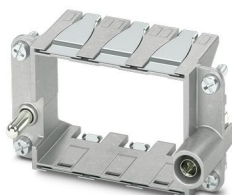
Module carrier frame, size: B6, type : for the panel mounting side (a, b, c, ...), 4 mm<sup>2</sup> ... 6 mm<sup>2</sup>, application: Module carrier frame

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

1182088

<https://www.phoenixcontact.com/gb/products/1182088>



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

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

1182090

<https://www.phoenixcontact.com/gb/products/1182090>

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



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

1182094

<https://www.phoenixcontact.com/gb/products/1182094>

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



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

1182087

<https://www.phoenixcontact.com/gb/products/1182087>



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

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

1182089

<https://www.phoenixcontact.com/gb/products/1182089>



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

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

1182093

<https://www.phoenixcontact.com/gb/products/1182093>

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



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

1182095

<https://www.phoenixcontact.com/gb/products/1182095>

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



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

1424228

<https://www.phoenixcontact.com/gb/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<sup>2</sup> ... 1.5 mm<sup>2</sup>, application: Signal

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## CF CRIMPHANDY 0,5 - Electrical crimping tool

1212463

<https://www.phoenixcontact.com/gb/products/1212463>



Mobile handheld device, battery-powered, for processing on-tape ferrules 0.5 mm<sup>2</sup> 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<sup>2</sup>, packed in a robust case.

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## CF CRIMPHANDY 0,75 - Electrical crimping tool

1212464

<https://www.phoenixcontact.com/gb/products/1212464>



Mobile handheld device, battery-powered, for processing on-tape ferrules 0.75 mm<sup>2</sup> 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<sup>2</sup>, packed in a robust case.

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## CF CRIMPHANDY 1,0 - Electrical crimping tool

1212465

<https://www.phoenixcontact.com/gb/products/1212465>



Mobile handheld device, battery-powered, for processing on-tape ferrules 1.0 mm<sup>2</sup> 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<sup>2</sup>, packed in a robust case.

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## CF CRIMPHANDY 1,5 - Electrical crimping tool

1212466

<https://www.phoenixcontact.com/gb/products/1212466>



Mobile handheld device, battery-powered, for processing on-tape ferrules 1.5 mm<sup>2</sup> 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<sup>2</sup>, packed in a robust case.

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