

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



1414354

<https://www.phoenixcontact.com/us/products/1414354>

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Contact insert module, number of positions: 12, power contacts: 0, control contacts: 12, Pin, Crimp connection, 10 A, 0.14 mm<sup>2</sup> ... 2.5 mm<sup>2</sup>, application: Signal

## Commercial data

Item number	1414354
Packing unit	5 pc
Minimum order quantity	1 pc
Sales key	BF62
Product key	AF7ACE
GTIN	4055626024677
Weight per piece (including packing)	9.16 g
Weight per piece (excluding packing)	8.92 g
Customs tariff number	85389099
Country of origin	PL

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## Technical data

### Mounting

Assembly note	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
Series	HC-M-12
Application	Signal
Number of positions	12
Connection profile	12
Contact numbering	1 - 12
Number of module slots	1
No. of power contacts	0
No. of control contacts	12
Contact material type	turned rolled

### Insulation characteristics

Overvoltage category	III
Degree of pollution	2

### Connection data

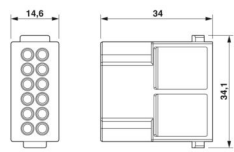
#### Connection technology

Connection technology	Crimp connection
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#### Conductor connection

Conductor cross-section	0.14 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Connection cross section AWG	26 ... 14
Stripping length of the individual wire	8 mm (6 mm with 2.5 mm <sup>2</sup> )

### 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 diameter	1.6 mm
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## Electrical properties

Rated voltage (III/2) contacts	250 V
Rated surge voltage	4 kV
Rated current	10 A
SCCR	5 kA (UL 2237)

## 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 (alternatively Au)
Contact carrier material	PC
Standards/regulations	PC

## Environmental and real-life conditions

### 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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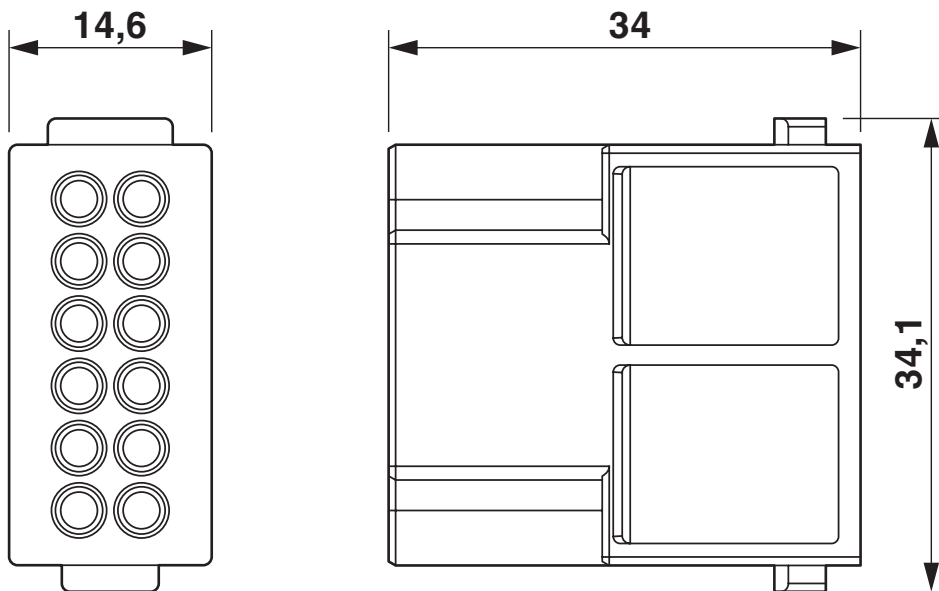


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## Drawings

Dimensional drawing



Male insert

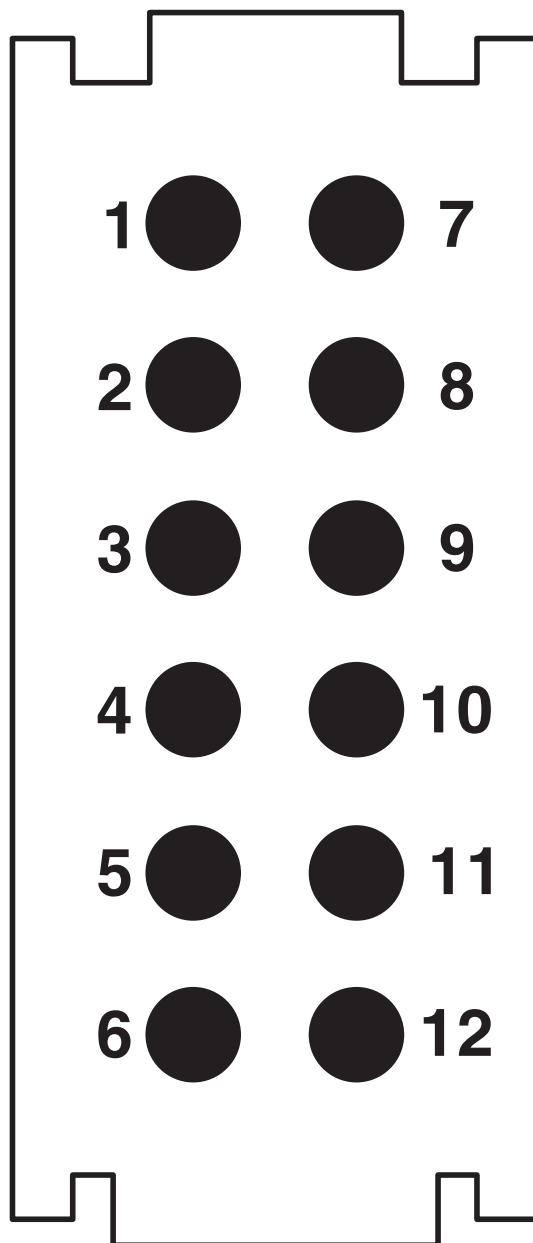
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Schematic diagram



Connector pin assignment, connection side

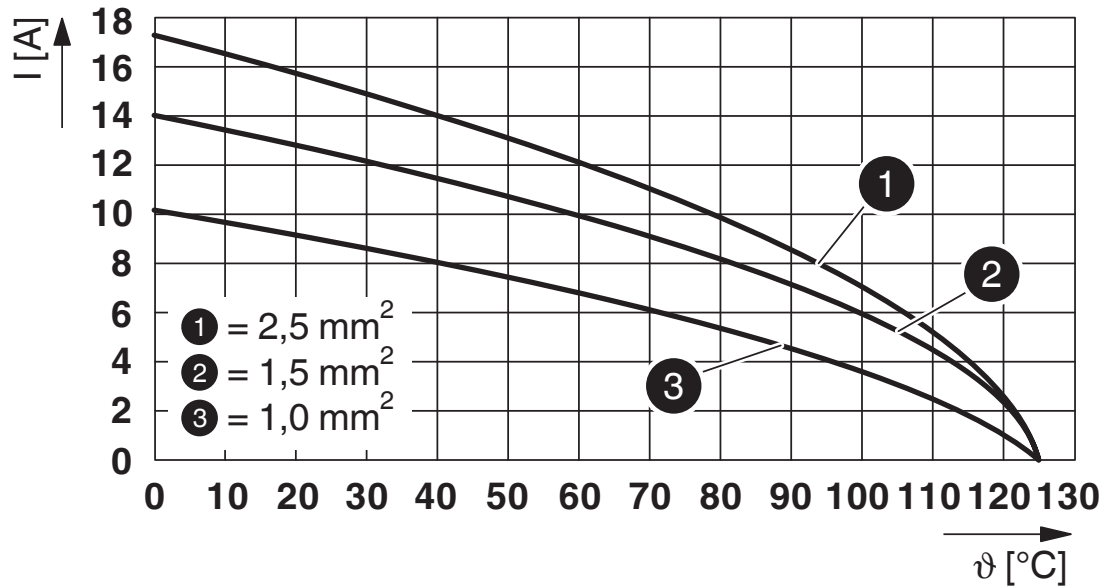
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Diagram



Derating diagram turned contacts

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1414354>

### DNV

Approval ID: TAE000037S



### CSA

Approval ID: 158887

	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
keine				
	600 V	12 A	- 14	-



### UL Recognized

Approval ID: E118976

	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
keine				
	600 V	16 A	- 14	-



### UL Recognized

Approval ID: E468743

	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
keine				
	600 V	16 A	-	-

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## Classifications

### ECLASS

ECLASS-13.0	27440217
ECLASS-15.0	27440217

### ETIM

ETIM 10.0	EC000438
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### UNSPSC

UNSPSC 21.0	39121400
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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
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### China RoHS

Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits

### EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%
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### EF3.1 Climate Change

CO2e kg	0.041 kg CO2e
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