

# HC-M-04-KT-M - Contact insert module



1417371

<https://www.phoenixcontact.com/us/products/1417371>

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Contact insert module, number of positions: 4xKOAX, power contacts: 0, control contacts: 4, Pin, Soldering and crimp connection, 48 V, 2 A, 0.2 mm<sup>2</sup> ... 0.8 mm<sup>2</sup>, application: Signal

## Commercial data

Item number	1417371
Packing unit	5 pc
Minimum order quantity	1 pc
Sales key	BF62
Product key	AF7ACE
GTIN	4055626112534
Weight per piece (including packing)	6.45 g
Weight per piece (excluding packing)	6.42 g
Customs tariff number	85389099
Country of origin	PL

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## Technical data

### Notes

General	For HEAVYCON housings type B6 to B48, HC-M-B...MF-... module carrier frame required, crimp contacts HC-M-04-KOAX... (crimp contacts not included in the scope of delivery)
General	Connectors may be operated only when there is no load/voltage.
General	It is imperative that guide pins (HC-CST) and sockets (HC-CBU) are used to prevent tip collision due to misalignment.
General	The designations "female" and "male" are used differently for coaxial contacts than for single-position contacts. The correct accessories can be found in the e-shop.

### Product properties

Product type	Coaxial insert, modular
Series	HC-M-04-KOAX
Application	Signal
Number of positions	4
Connection profile	4xKOAX
Contact numbering	1 - 4
No. of cable outlets	4
Number of module slots	1
No. of power contacts	0
No. of control contacts	4
Contact material type	turned

### Insulation characteristics

Overvoltage category	III
Degree of pollution	3

### Electrical properties

Rated voltage (III/3)	48 V
Rated surge voltage	0.8 kV
Rated current	1.5 A
Contact resistance, phase conductor	$\leq 3 \text{ m}\Omega$
Contact resistance, inner conductor	$\leq 10 \text{ m}\Omega$
Insulation resistance	$\geq 10 \text{ G}\Omega$
Transmission characteristics (category)	shielded data cable

### Connection data

#### Connection technology

Connection technology	Soldering and crimp connection
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#### Conductor connection

Conductor cross section	0.2 mm <sup>2</sup> ... 0.8 mm <sup>2</sup>
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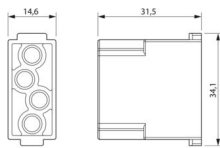


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Connection cross section AWG	24 ... 18
Stripping length of the individual wire	2.5 mm ±0.5 mm

## Dimensions

Dimensional drawing	
Width	34.2 mm
Height	31.5 mm
Length	14.6 mm

## Mechanical characteristics

Contact diameter	4.8 mm
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## Material specifications

Flammability rating according to UL 94	V0
Contact material	Copper alloy
Contact surface material	Au
Contact carrier material	PC
Standards/regulations	PC

## Cable/line

Stripping length of the individual wire	2.5 mm ±0.5 mm
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## Mechanical properties

### Mechanical data

Insertion/withdrawal cycles	≥ 500
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## 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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## Mounting

Assembly note	To ensure correct use, installation in housing with IP54 protection or better is required For HC-M-04-BU-KOAX... contacts
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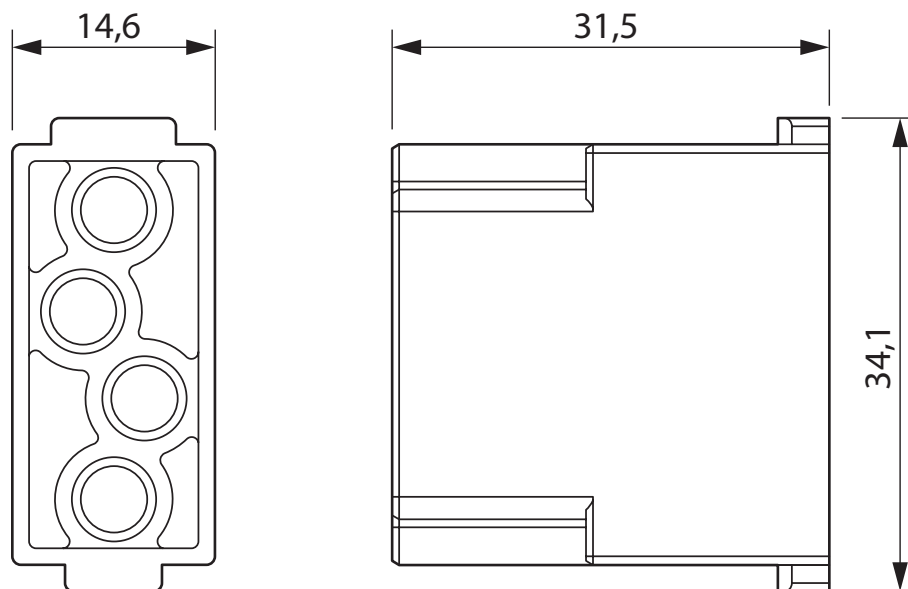
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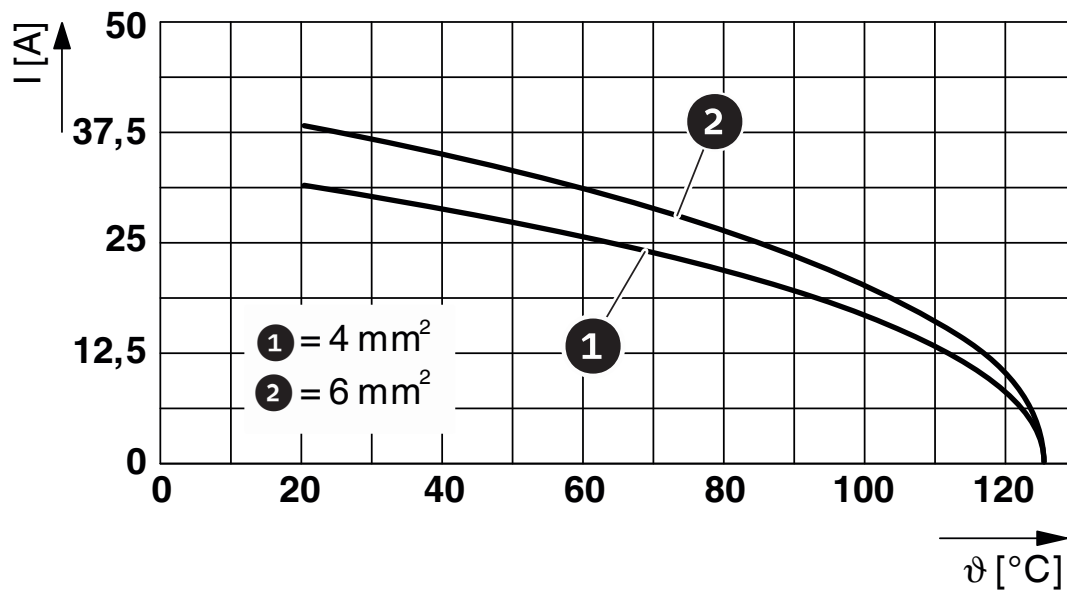
## Drawings

Dimensional drawing



Male insert

Diagram



Derating diagram

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## Approvals

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**DNV**

Approval ID: TAE000037S



**CSA**

Approval ID: 13631



**UL Recognized**

Approval ID: E118976

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## Classifications

### ECLASS

ECLASS-13.0	27440217
ECLASS-15.0	27440217

### ETIM

ETIM 9.0	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
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%
EF3.0 Climate Change	
CO2e kg	0.053 kg CO2e