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

1414355

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

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

Commercial data

Item number	1414355
Packing unit	5 pc
Minimum order quantity	1 pc
Sales key	BF62
Product key	AF7ACE
GTIN	4055626024684
Weight per piece (including packing)	9.48 g
Weight per piece (excluding packing)	9.46 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.

Mounting

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

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

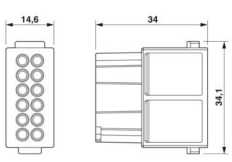
Connection technology

Connection technology	Crimp connection

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 with 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/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

Material specifications

Flammability rating according to UL 94	V0
Contact material	Copper alloy
Contact surface material	Ag (alternatively Au)
Contact carrier material	PC

Environmental and real-life conditions

Ambient conditions

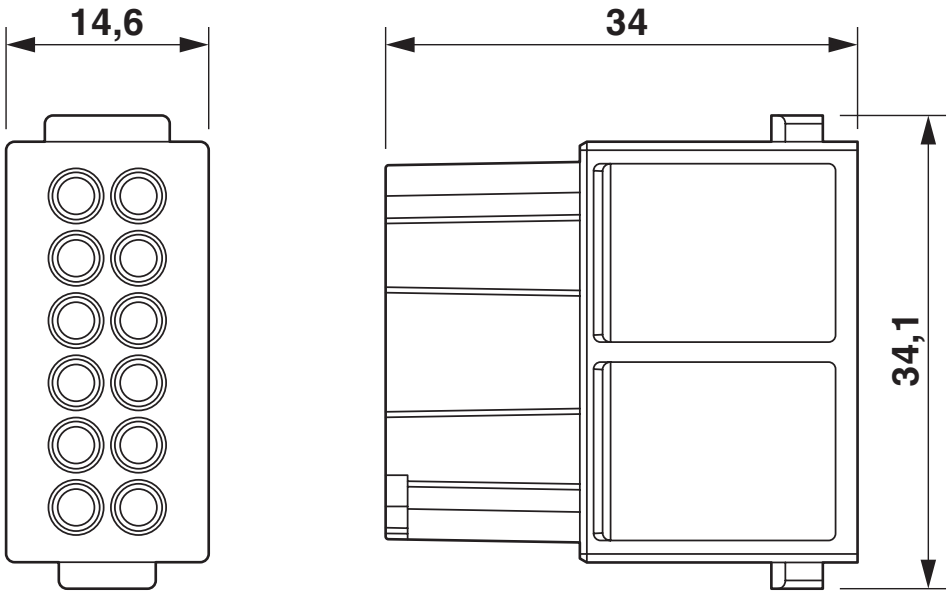
Ambient temperature (operation)	-40 °C ... 125 °C (including heating up of contacts)

Standards and regulations

Standards/regulations	PC: Fire protection in rail vehicles - requirement sets R22, R23, and R24 acc. to DIN EN 45545-2 (Risk level HL1 - HL3)

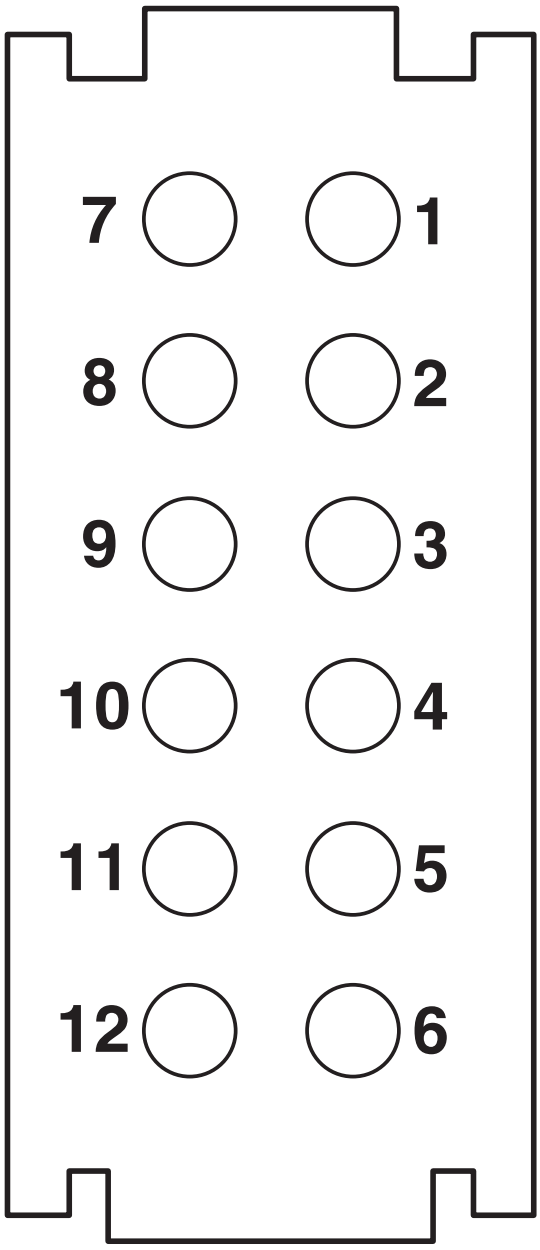
Drawings

Dimensional drawing



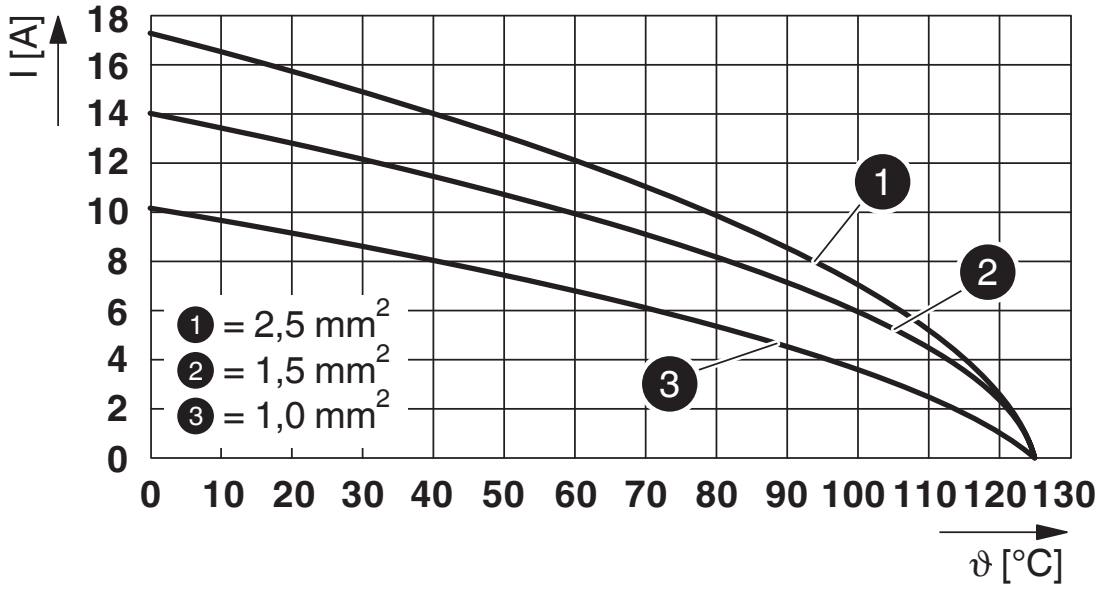
Female insert

Schematic diagram



Connector pin assignment, connection side

Diagram



Derating diagram turned contacts

Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1414355

DNV
Approval ID: TAE000037S

CSA
Approval ID: 158887

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section 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 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 mm^2
keine				
	600 V	16 A	-	-

Classifications

ECLASS

ECLASS-13.0	27440217
ECLASS-15.0	27440217

ETIM

ETIM 10.0	EC000438

UNSPSC

UNSPSC 21.0	39121400

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%

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