



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



# Contact insert module - HC-M-02-AT-F-10 - 1417387


Please be informed that the data shown in this PDF Document is generated from our Online Catalog. Please find the complete data in the user's documentation. Our General Terms of Use for Downloads are valid (<http://phoenixcontact.com/download>)



Contact insert module, Number of positions: 2, Socket, Axial screw connection, 1000 V, 40 A, 2.5 mm² ... 10 mm², Application: Power

RoHS

## Key Commercial Data

Packing unit	2 STK
Minimum order quantity	2 STK
GTIN	 4 055626 112688
GTIN	4055626112688

## Technical data

### Dimensions

Height	33.5 mm
Width	34.2 mm
Length	14.6 mm

### Electrical characteristics

Note	For HEAVYCON HC-B6 to B48 housing, snap-in module frame required, axial connection for 2 mm Allen key
Rated voltage (III/3)	1000 V
Rated current	40 A
Rated surge voltage	8 kV
Connection profile	2

### Ambient conditions

Ambient temperature (operation)	-40 °C ... 125 °C
---------------------------------	-------------------

### Mechanical characteristics

Conductor cross section	2.5 mm² ... 10 mm² (The cross section specification refers to the geometric cross section of the cable used)
Connection cross section AWG	12 ... 10

# Contact insert module - HC-M-02-AT-F-10 - 1417387

## Technical data

### Mechanical characteristics

Stripping length of the individual wire	5 mm +1 (2.5 mm <sup>2</sup> ... 4 mm <sup>2</sup> )
	8 mm +1 (4 mm <sup>2</sup> )
	11 mm +1 (10 mm <sup>2</sup> )
Tightening torque	1.5 Nm (2.5 mm <sup>2</sup> ... 4 mm <sup>2</sup> )
	2 Nm (6 ... 10 mm <sup>2</sup> )
Wire diameter including insulation	6 mm (6 mm <sup>2</sup> )
	10.5 mm (8 mm <sup>2</sup> )
	4 mm (2.5 mm <sup>2</sup> ... 4 mm <sup>2</sup> )
Hexagonal socket	WAF 2
Insertion/withdrawal cycles	≥ 500

### General

Series	HC-M-02
Color	light gray
Number of module slots	1
Connection method	Axial screw connection
Connection in acc. with standard	IEC / EN
Flammability rating according to UL 94	V0
Degree of pollution	3
Overvoltage category	III
Assembly instructions	<ul style="list-style-type: none"> <li>- Connection of the wires using a 2 mm Allen wrench.</li> <li>- Housing height ≥ 52 mm.</li> <li>- Axial screw connection only for flexible wires.</li> <li>- Plug-in connections may only be operated only when there is no load/voltage.</li> </ul>
Connection	<p>Note regarding axial connection technology:                      Only for stranded wires. The conductor cross sections stated refer to the geometric cross section of the cable used.                      Use of cables with a geometric cross section very different from that of the cable's nominal cross section should be checked before use.                      The wiring space of the axial screw method is designed for fine strand cables according to VDE 0295 class 5. Deviating cable structures (e.g. class 6 cables) should be checked before use.</p> <p>Connection                      Before starting to connect, ensure that the tapered screw is turned back all the way (chamber is open). The cables must not be twisted. The cores should be slid to the limit stop in the contact chamber (until insulation touches contact). Hold cores in position and use socket wrench to tighten. The used core end should be cut off before connecting again. The connection screw may only be retightened once to prevent the strands from breaking. To prevent damage to the contact, the core / cable should be mechanically intercepted at an appropriate distance from the connection point (e.g. by using a plate cutout). DIN VDE 0100-520:2003-06 contains information on how to do this correctly.</p>

### Material data

Contact material	Copper alloy
Contact surface material	Ag
Contact carrier material	PC

# Contact insert module - HC-M-02-AT-F-10 - 1417387

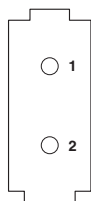
## Technical data

### Standards and Regulations

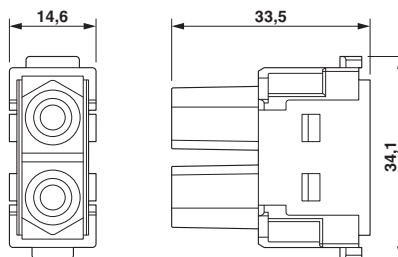
Connection in acc. with standard	IEC / EN
Flammability rating according to UL 94	V0

## Drawings

Schematic diagram



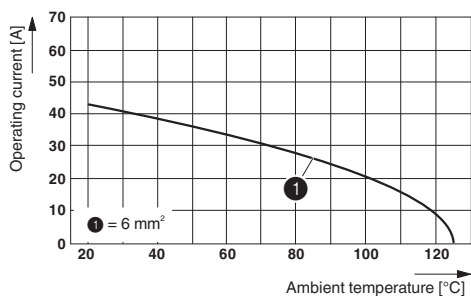
Dimensional drawing



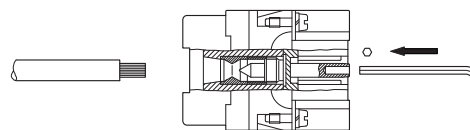
Connector pin assignment

Female insert

Diagram



Schematic diagram



Axial connection (2 mm Allen key)

Derating diagram (6 modules in HC-B 24 housing)

## Approvals

### Approvals

Approvals

EAC / CSA / UL Recognized


Ex Approvals


### Approval details

# Contact insert module - HC-M-02-AT-F-10 - 1417387

## Approvals

EAC		<a href="http://www.eurasiancertification.com/">http://www.eurasiancertification.com/</a>	7500651.22.01.00246
-----	-----------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------	---------------------

CSA		<a href="http://www.csagroup.org/services/testing-and-certification/certified-product-listing/">http://www.csagroup.org/services/testing-and-certification/certified-product-listing/</a>	13631
mm <sup>2</sup> /AWG/kcmil	8		
Nominal current I <sub>N</sub>	45 A		
Nominal voltage U <sub>N</sub>	600 V		

UL Recognized		<a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a>	E118976
mm <sup>2</sup> /AWG/kcmil	8		
Nominal current I <sub>N</sub>	55 A		
Nominal voltage U <sub>N</sub>	600 V		

Phoenix Contact 2017 © - all rights reserved  
<http://www.phoenixcontact.com>

PHOENIX CONTACT GmbH & Co. KG  
Flachsmarktstr. 8  
32825 Blomberg  
Germany  
Tel. +49 5235 300  
Fax +49 5235 3 41200  
<http://www.phoenixcontact.com>