



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



# HC-K 6/12-ESTS


Order No.: 1636350



<http://eshop.phoenixcontact.de/phoenix/treeViewClick.do?UID=1636350>

HEAVYCON male insert, K6/12 series, with 6 power (axial screw connection) and 12 control contacts (screw connection)

## Commercial data

GTIN (EAN)	 4 046356 011495
sales group	D007
Pack	1 pcs.
Customs tariff	85366990
Catalog page information	Page 446 (PC-2009)

## Product notes

WEEE/RoHS-compliant since:  
01/01/2008



<http://www.download.phoenixcontact.com>  
Please note that the data given here has been taken from the online catalog. For comprehensive information and data, please refer to the user documentation. The General Terms and Conditions of Use apply to Internet downloads.

## Technical data

### General data

Note	For HEAVYCON-ADVANCE and HEAVYCON housing of B16 type, axial connection for 2 mm Allen wrench
------	---

Connection method	Axial screw connection (power contacts)
	Screw connection (control contacts)
Tightening torque	1.5 Nm (Power contacts 2.5 - 4 mm <sup>2</sup> )
	0.8 Nm (control contacts)
	2 Nm (Power contacts 6 -8 mm <sup>2</sup> )
Ambient temperature (operation)	-40 °C ... 125 °C
Pollution degree	3
Surge voltage category	III
Insertion/withdrawal cycles	≥ 500
Design	B16
Conductor cross-section	2.5 mm <sup>2</sup> ... 8 mm <sup>2</sup>
	0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Connection cross-section AWG	12 ... 10
	24 ... 14 (control contacts)
Stripping length of the individual wire	5 mm +1 (2.5 mm <sup>2</sup> ... 4 mm <sup>2</sup> )
	10 mm
	Power 2 8 mm +1 (6 - 8 mm <sup>2</sup> )
Wire diameter including insulation	6.1 mm (Max., power contacts)
Assembly instructions	-The axial screw connection must be established using a 2 mm Allen wrench.-Use only stranded wires for axial screw connection.-Plug-in connections may only be operated only when there is no load/voltage.
Connection	<b>Note regarding axial connection technology:</b> 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. <b>Connection</b> 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.
<b>Material data</b>	
Inflammability class acc. to UL 94	V0

Contact material	Cu alloy
Material of contact surface, power contact	Ag
Material of contact surface, control contact	Ag
Contact carrier material	PC

**Electrical characteristics**

Rated voltage (III/3)	690 V (power contacts)
	230 V (control contacts)
	Signal 400 V (Conductor-Conductor)
Rated surge voltage	8 kV (power contacts)
	4 kV (control contacts)
Rated current	40 A (power contacts)
	10 A (control contacts)

**Certificates / Approvals**



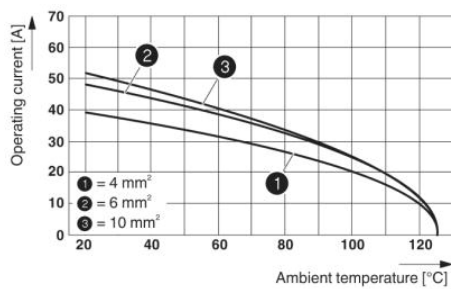
Certification

CSA, UL

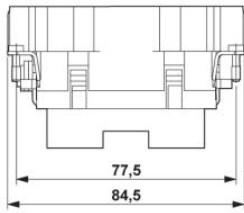
**Diagrams/Drawings**

Diagram

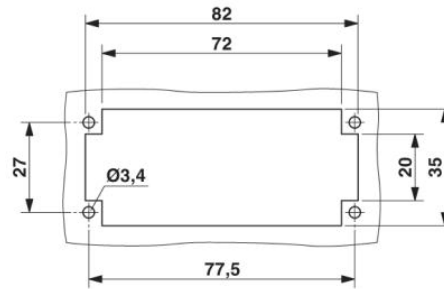
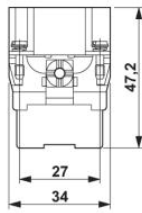
Derating curve



Dimensioned drawing

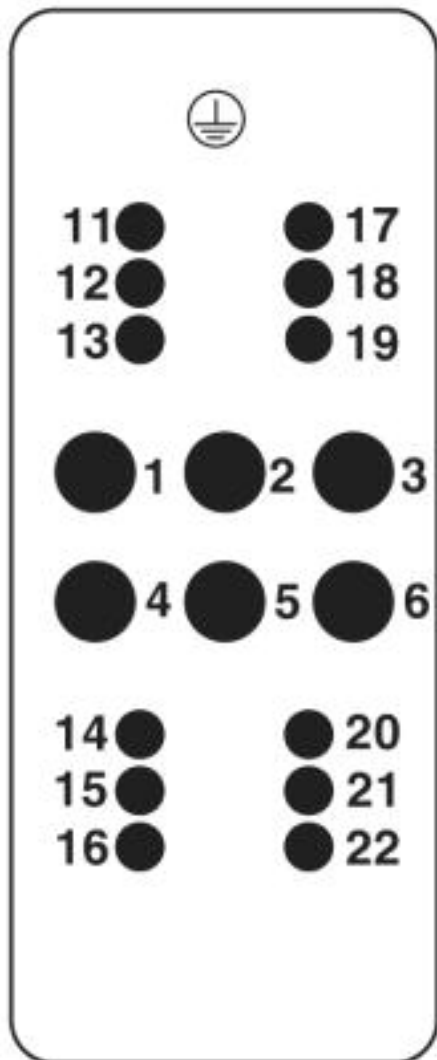


Male insert

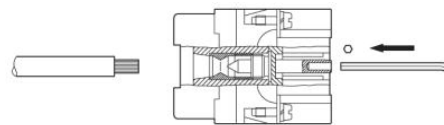


Panel cutout

Schematic diagram



Connector pin assignment



Axial connection

**Address**

PHOENIX CONTACT Deutschland GmbH  
Flachmarktstr. 8  
32825 Blomberg, Germany  
Phone +49 5235 3 12000  
Fax +49 5235 3 41200  
<http://www.phoenixcontact.de>



© 2010 Phoenix Contact  
Technical modifications reserved;