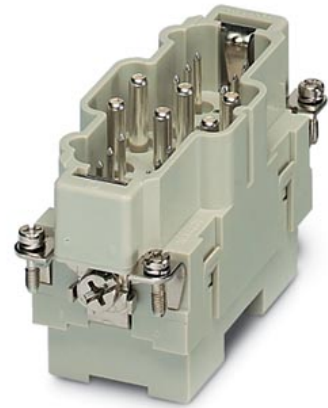


HC-K 6/12-ESTS

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	
EAN	4046356011495
Pack	1 pcs.
Customs tariff	85366990
Weight/Piece	0.1494 KG
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 ²)
	0.8 Nm (control contacts)
	2 Nm (Power contacts 6 -8 mm ²)
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 ² ... 8 mm ²
	0.2 mm ² ... 2.5 mm ²
Connection cross section AWG	12 ... 10
	24 ... 14 (control contacts)
Stripping length of the individual wire	5 mm +1 (2.5 mm ² ... 4 mm ²)
	10 mm
	Leistung 2 8 mm +1 (6 - 8 mm ²)
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	<p>Note for axial connection method The specified conductor cross-sections refer to the geometric cross-section of the used conductor. The use of conductors with a geometric cross-section that deviates greatly from the nominal cross-section of the conductor should be checked first. The wiring space of the axial screw technology has been designed for fine strand conductors as per VDE 0295 class 5. Deviating conductor superstructures (e.g. class 6 conductors) must be checked before use. Connection It must be ensured before installation that the ball screw is completely turned back (chamber is open). Twisting the conductors is not allowed. The cores must be pushed up to the end of the contact chamber (until the contact is insulated). Keep the core in this position and tighten it using an Allen key. The required core end must be cut before a reconnection. Tightening the connection screw is allowed only once in order to prevent a breakage of the litz wire.</p>
	<p>Installation instructions It must be ensured before installation that the ball screw is completely turned back (chamber is open). Twisting the conductors is not allowed. The cores must be pushed till the end of the contact chamber (till the contact is insulated). Keep the core in this position and tighten it using an Allen key. The required core end must be cut before a reconnection. Tightening the connection screw is allowed only once in order to prevent a breakage of the litz wire.</p>

Material data

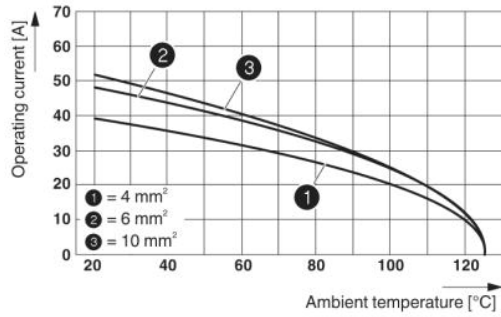
Inflammability class acc. to UL 94	V0
Contact material	Cu alloy
Material of contact surface, power contact	Ag
Material of contact surface, control contact	Ag
Contact carrier material	PC

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)

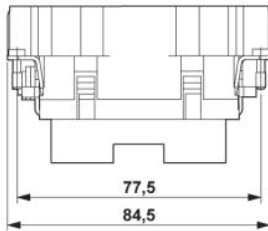
Drawings

Diagram

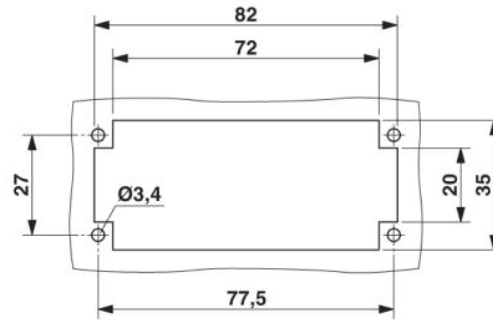


Derating curve

Dimensioned drawing

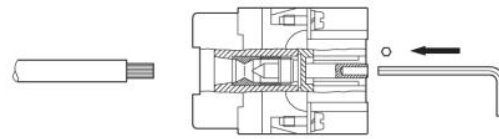
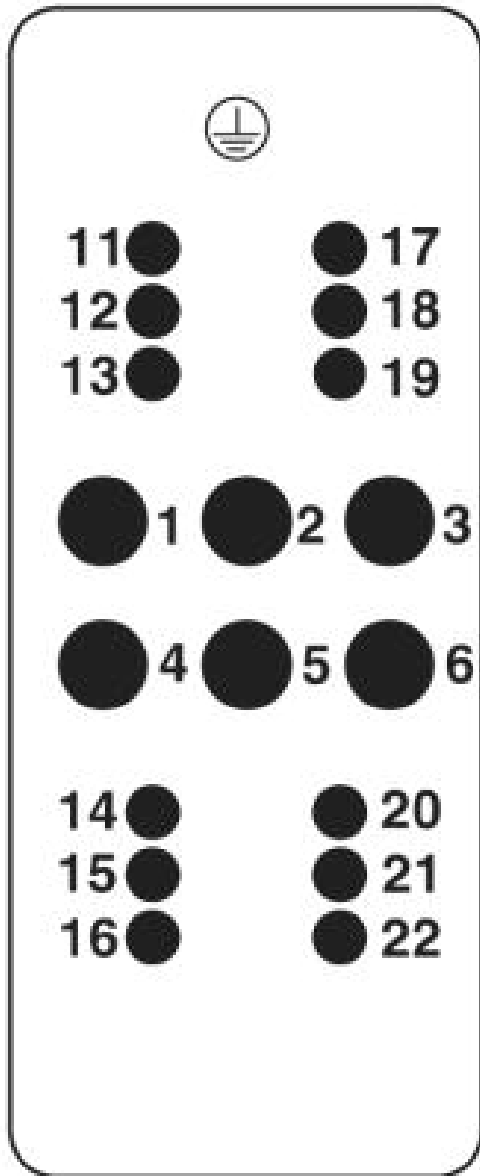


Male insert



Panel cutout

Schematic diagram



Axial connection

Connector pin assignment

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