

# Contact insert - HC-K 6/12-ESTS - 1636350

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>)



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



COMPLETE™

## Key Commercial Data

Packing unit	1 pc
GTIN	
GTIN	4046356011495
Weight per Piece (excluding packing)	149.400 g
Custom tariff number	85366990
Country of origin	Germany

## Technical data

### General

Note	For HEAVYCON ADVANCE and HEAVYCON housing of type B16/B32, axial connection for 2 mm Allen wrench
	Connectors may be operated only when there is no load/voltage.
	The axial screw connection must be established using a 2 mm Allen key (for stranded conductors only)
Connection method	Axial screw connection (power contacts)
	Screw connection (control contacts)
Tightening torque	0.5 Nm ... 0.8 Nm (control contacts)
	1.5 Nm (Power contacts 2.5 ... 4 mm <sup>2</sup> )
	2 Nm (Power contacts 6 ... 8 mm <sup>2</sup> )
Torque	0.8 Nm ... 1.2 Nm (PE connection)

# Contact insert - HC-K 6/12-ESTS - 1636350

## Technical data

### General

	0.5 Nm ... 0.8 Nm (Mounting screws for mounting in the HEAVYCON housing)
Screwdriver blade	0.5 x 3.5 mm (control contacts)
Degree of pollution	3
Overvoltage category	III
Number of positions	6+12+PE
No. of power contacts	6
No. of control contacts	12
Insertion/withdrawal cycles	≥ 500
Size	B16
	B32
Contact numbering	1 - 6
Conductor cross section	2.5 mm <sup>2</sup> ... 8 mm <sup>2</sup> (power contacts)
	0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> (control contact)
Connection cross section AWG	12 ... 10 (power contacts)
	24 ... 14 (control contacts)
Stripping length of the individual wire	8 mm +1 (Power contacts 6 ... 8 mm <sup>2</sup> )
	10 mm (control contacts)
	5 mm +1 (Power contacts 2.5 ... 4 mm <sup>2</sup> )
Wire diameter including insulation	6.1 mm (max., power contacts)
Assembly instructions	To ensure correct use, installation in housing with IP54 protection or better is required
Connection	<p>Note regarding axial connection technology:                      Only for stranded wires. The specified conductor cross sections refer to the geometric cross section of the cable used.                      Cables with a geometric cross section which deviates significantly from the nominal cable cross section must be checked before use.                      The axial connection technology connection space is designed for fine strand cables according to VDE 0295 Class 5. Deviating cable structures (e.g., Class 6 cables) must be checked before use.</p> <p>Assembly instructions                      Before assembly, ensure that the tapered screw is fully loosened (chamber is open). Cables must not be twisted. The wires must be pushed into the contact chamber as far as they will go (until the insulation touches the contact). Hold the wires in position and tighten using an Allen key. The used wire end must be cut off before reconnection. The terminal screw must only be retightened once to prevent the litz wires from breaking.                      To prevent damage to the contact, the wire/cable must be mechanically held at an appropriate distance from the connection point (e.g., when used in a plate cut out). For notes on correct execution, see DIN VDE 0100-520:2003-06. Unused connections must be tightened with maximum torque.</p>

### Ambient conditions

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

## Contact insert - HC-K 6/12-ESTS - 1636350

### Technical data

#### Material data

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

#### Standards and Regulations

Connection in acc. with standard	CSA
Flammability rating according to UL 94	V0

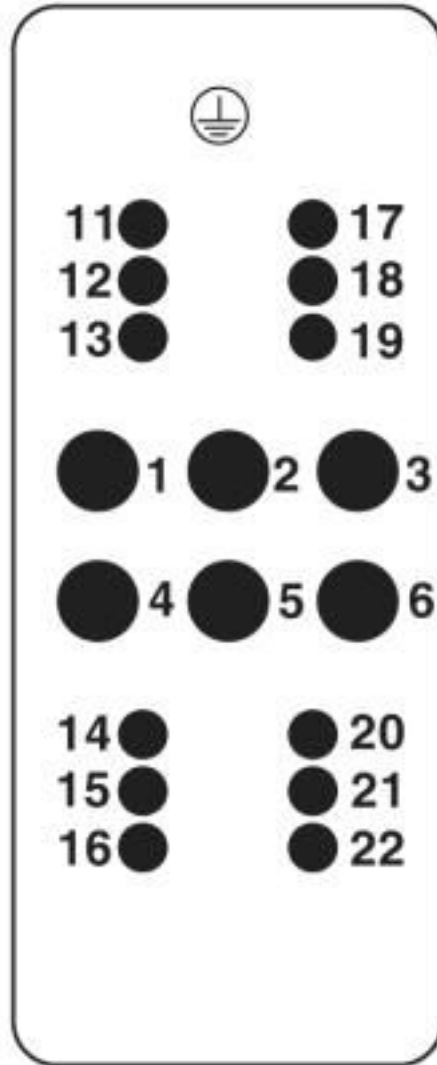
#### Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

### Drawings

# Contact insert - HC-K 6/12-ESTS - 1636350

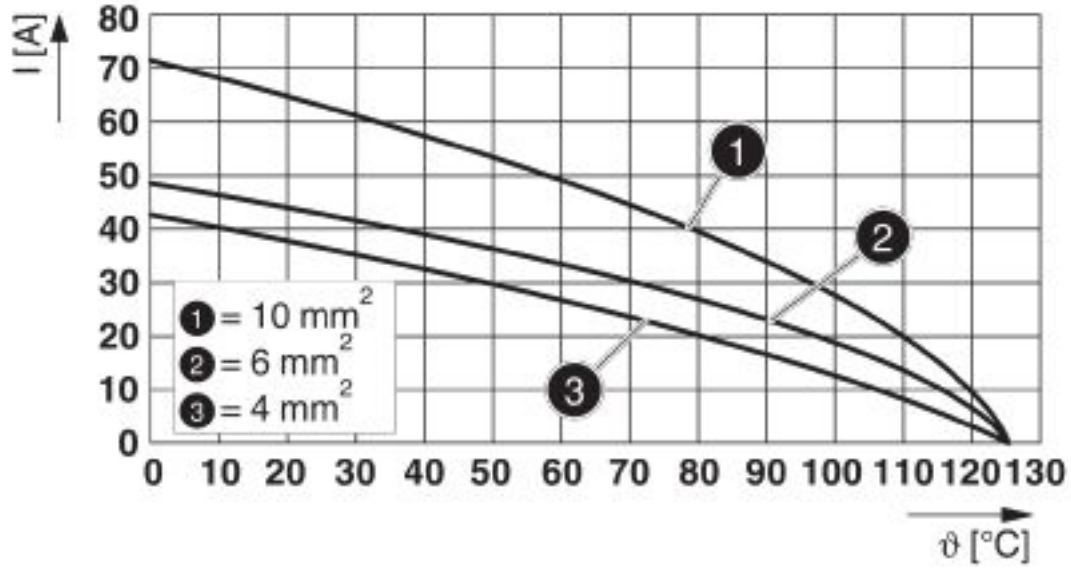
Schematic diagram



Connector pin assignment, connection side

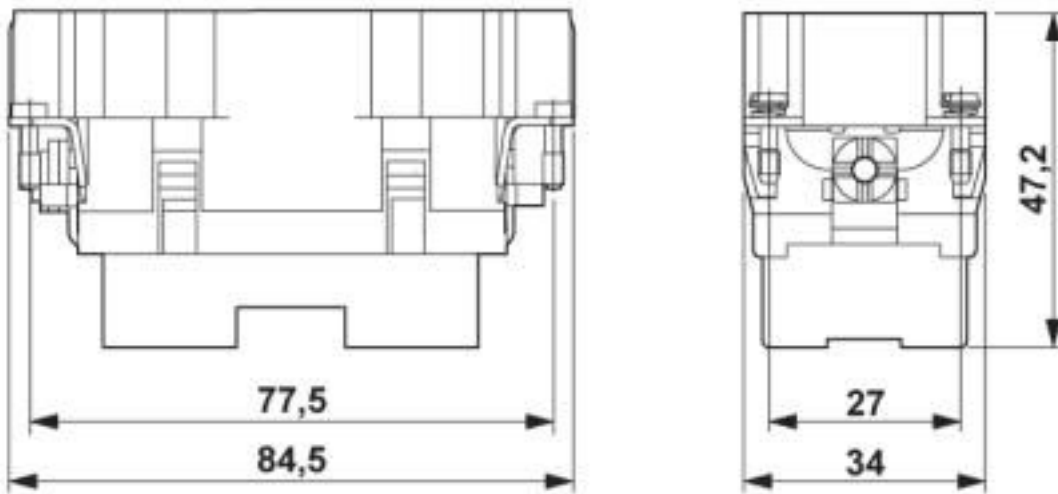
# Contact insert - HC-K 6/12-ESTS - 1636350

Diagram



Derating curve

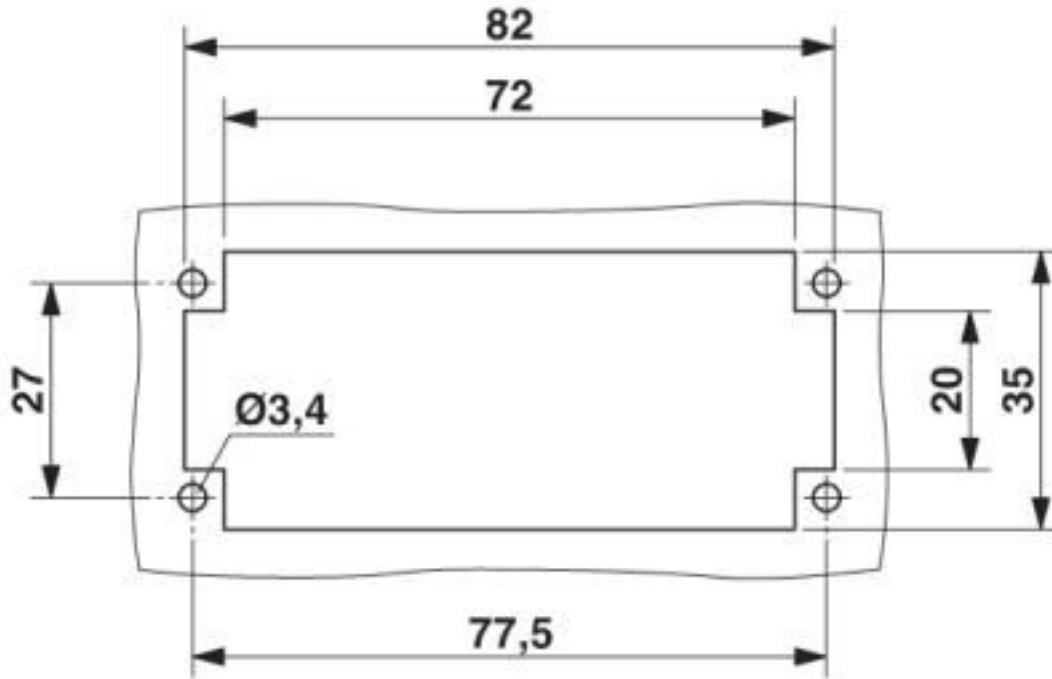
Dimensional drawing



Dimensional drawing

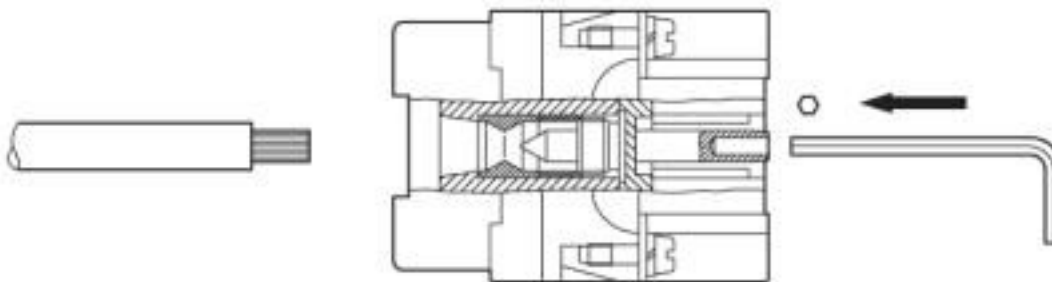
# Contact insert - HC-K 6/12-ESTS - 1636350

Dimensional drawing



Mounting cutout when used without housing

Schematic diagram



Axial connection

## Classifications

eCl@ss

eCl@ss 10.0.1	27440205
eCl@ss 4.0	27140800
eCl@ss 4.1	27140800

# Contact insert - HC-K 6/12-ESTS - 1636350

## Classifications

### eCl@ss

eCl@ss 5.0	27143400
eCl@ss 5.1	27261200
eCl@ss 6.0	27261200
eCl@ss 7.0	27440205
eCl@ss 8.0	27440205
eCl@ss 9.0	27440205

### ETIM

ETIM 2.0	EC000438
ETIM 3.0	EC000438
ETIM 4.0	EC000438
ETIM 5.0	EC000438
ETIM 6.0	EC000438
ETIM 7.0	EC000438

### UNSPSC

UNSPSC 6.01	30211923
UNSPSC 7.0901	39121522
UNSPSC 11	39121522
UNSPSC 12.01	39121522
UNSPSC 13.2	39121522
UNSPSC 18.0	39121522
UNSPSC 19.0	39121522
UNSPSC 20.0	39121522
UNSPSC 21.0	39121522

## Approvals

### Approvals

---

Approvals

EAC / EAC / UL Recognized / cUL Recognized / cULus Recognized

---

Ex Approvals

---

### Approval details

# Contact insert - HC-K 6/12-ESTS - 1636350

## Approvals

EAC		RU C- DE.AI30.B.01102
-----	--	--------------------------

EAC		RU C- DE.BL08.B.00511
-----	--	--------------------------

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
Nominal voltage UN		690 V	
Nominal current IN		40 A	
mm <sup>2</sup> /AWG/kcmil		14-8	

cUL 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
Nominal voltage UN		690 V	
Nominal current IN		40 A	
mm <sup>2</sup> /AWG/kcmil		14-8	

cULus Recognized	
------------------	--

## Accessories

### Accessories

#### Screwdriver tools

Screwdriver - SF-SL 0,6X3,5-100 S-VDE - 1212587



Actuation tool, for ST terminal blocks, VDE insulated, with slimmer insulation integrated in the blade, also suitable for use as a bladed screwdriver, size: 0.6 x 3.5 x 100 mm, 2-component grip, with non-slip grip



## Contact insert - HC-K 6/12-ESTS - 1636350

### Accessories

---

#### Socket spanner

Screwdriver - SF-THEX 2-100 - 1212637



T-handle screwdriver, for Allen screws, hexagonal (with chamfer), size: hex 2 x 100 mm, ergonomically shaped handle, matt chrome-plated

---

#### Additional products

Contact insert - HC-K 6/12-EBUS - 1636363



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

---

---