

# HC-K 4/8-ESTS - Contact insert

1679333

<https://www.phoenixcontact.com/in/products/1679333>



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Contact insert, number of positions: 4+8+2PE, size: B24, power contacts: 4, control contacts: 8, Pin, Screw connection, 400 V, 80 A, 1.5 mm<sup>2</sup> ... 16 mm<sup>2</sup>

## Commercial data

Item number	1679333
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF7
Product key	BF7ABA
Catalog page	Page 565 (C-2-2019)
GTIN	4017918163570
Weight per piece (including packing)	147.3 g
Weight per piece (excluding packing)	147.3 g
Customs tariff number	85366990
Country of origin	CN

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## Technical data

### Notes

General	For housing HC-B24
General	Connectors may be operated only when there is no load/voltage.

### Mounting

Assembly instructions	To ensure correct use, installation in housing with IP54 protection or better is required
	Use wire end protection (screw connections do not have wire protection)

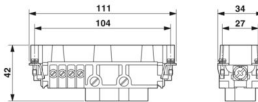
### Product properties

Type	B24
	B48
Product type	Contact insert with a fixed no. of positions
Number of positions	12
Connection profile	4+8+2PE
Contact numbering	1 - 4 (power contacts)
	1 - 8 (control contacts)
No. of power contacts	4
No. of control contacts	8
Contact material type	turned
Series	HC-K
Screwdriver blade	0.8 x 4.5 mm (power contacts)

### Insulation characteristics

Overvoltage category	III
Degree of pollution	3

### Dimensions

Dimensional drawing	
Width	34 mm
Height	42 mm
Length	111 mm
Drill hole distance, horizontal	104 mm

### Mechanical characteristics

Contact diameter	6 mm
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### Connection data

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## Connection technology

Connection technology	Screw connection (power contacts)
	Screw connection (control contacts)

## Conductor connection

Conductor cross section	1.5 mm² ... 16 mm² (power contacts)
	0.5 mm² ... 2.5 mm² (control contacts)
Connection cross section AWG	16 ... 6 (power contacts)
	20 ... 14 (control contacts)
Tightening torque	0.8 Nm ... 1.2 Nm (PE connection)
	0.5 Nm ... 0.8 Nm (Mounting screws for mounting in the HEAVYCON housing)
	2 Nm (Power contact, 2.5 mm²)
	3 Nm (Power contact, 4 ... 16 mm²)
	0.5 Nm (control contacts)
	1.2 Nm (Power contact, 1.5 mm²)
Stripping length of the individual wire	14 mm (Power)
	7 mm (Signal)

## Electrical properties

Rated voltage (III/3)	400 V (power contacts)
	400 V (control contacts)
Rated surge voltage	6 kV (power contacts)
	6 kV (control contacts)
Rated current	80 A (power contacts)
	16 A (control contacts)

## Mechanical properties

### Mechanical data

Insertion/withdrawal cycles	≥ 500
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## Material specifications

Flammability rating according to UL 94	V0
Contact material	Copper alloy
Contact surface material	Ag (alternatively Au)
Contact carrier material	PA
Material of contact surface, power contact	Ag
Material of contact surface, control contact	Ag
Standards/regulations	PC: Fire protection in rail vehicles - requirement set R22 acc. to DIN EN 45545-2 (Risk level HL1 - HL2)
	PC: Fire protection in rail vehicles - requirement set R23 acc. to DIN EN 45545-2 (Risk level HL1 - HL3)

## Environmental and real-life conditions

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Ambient conditions

Ambient temperature (operation)	-40 °C ... 125 °C
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Standards and regulations

Testing

Standards/regulations	PC: Fire protection in rail vehicles - requirement set R22 acc. to DIN EN 45545-2 (Risk level HL1 - HL2)
	PC: Fire protection in rail vehicles - requirement set R23 acc. to DIN EN 45545-2 (Risk level HL1 - HL3)

# HC-K 4/8-ESTS - Contact insert

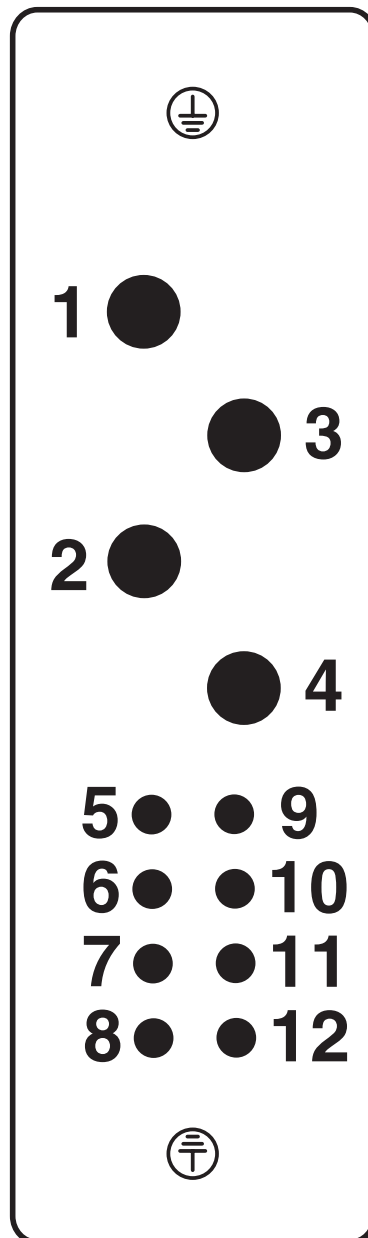
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## Drawings

Schematic diagram



Connector pin assignment, connection side

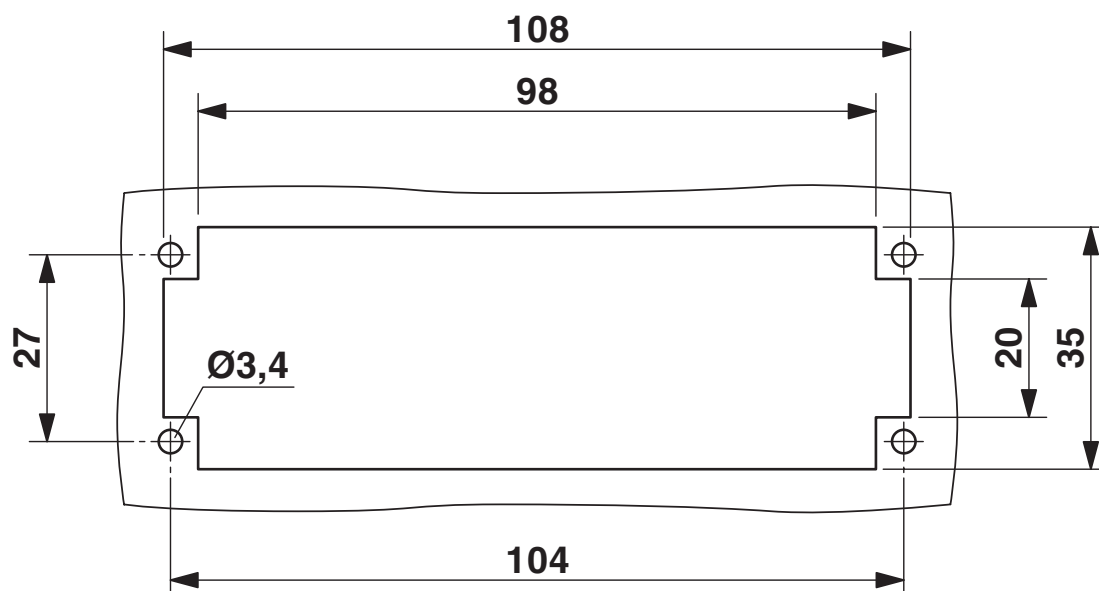
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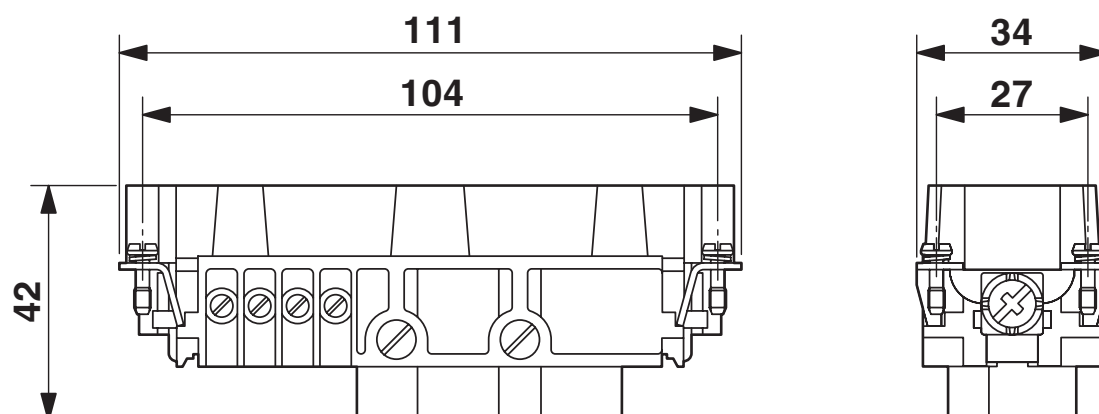


Dimensional drawing



Mounting cutout when used without housing

Dimensional drawing

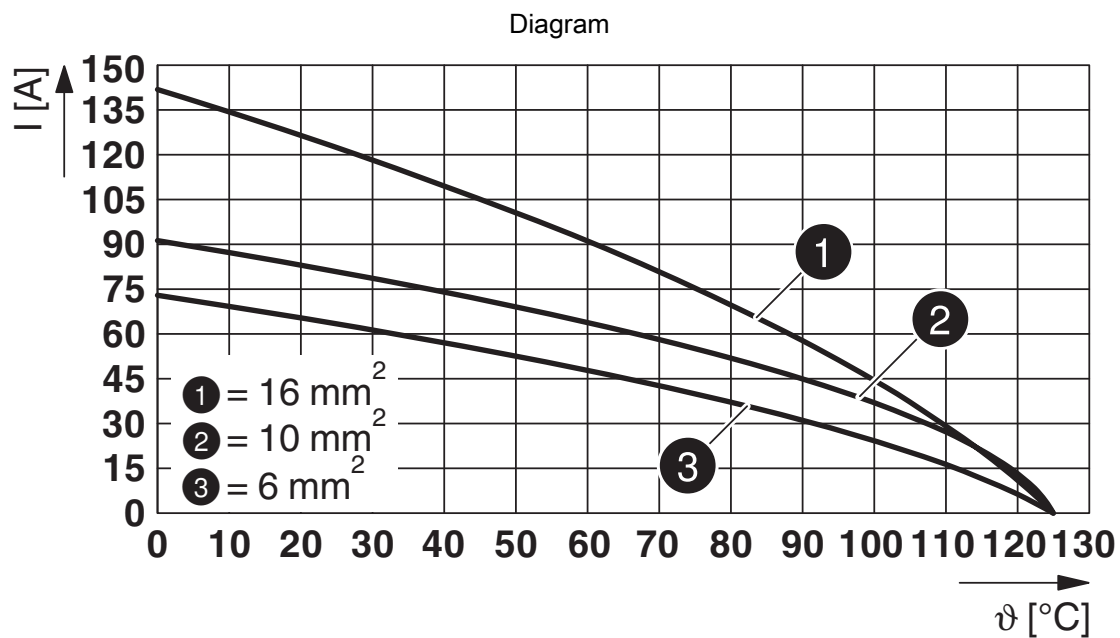


Male insert

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Derating diagram

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/in/products/1679333>

<div> <b>UL Recognized</b> Approval ID: E118976</div>				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
Power	600 V	80 A	- 6	-
Control	600 V	16 A	14	-

<div> <b>EAC</b> Approval ID: RU C-DE.BL08.B.00511</div>				
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## Classifications

### ECLASS

ECLASS-11.0	27440205
ECLASS-12.0	27440205
ECLASS-13.0	27440205

### ETIM

ETIM 9.0	EC000438
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### UNSPSC

UNSPSC 21.0	39121500
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## Environmental product compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

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