

# HC-K12/ 2-EBUC - Contact insert

1636347

<https://www.phoenixcontact.com/us/products/1636347>



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Contact insert, number of positions: 12+2+PE, size: B16, power contacts: 12, control contacts: 2, Socket, Crimp connection, 690 V, 40 A, 1.5 mm<sup>2</sup> ... 6 mm<sup>2</sup>

## Commercial data

Item number	1636347
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF61
Product key	BF7ABA
Catalog page	Page 569 (C-2-2019)
GTIN	4046356011488
Weight per piece (including packing)	87 g
Weight per piece (excluding packing)	83.8 g
Customs tariff number	85366990
Country of origin	CN

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## Technical data

### Notes

General	For HEAVYCON ADVANCE and HEAVYCON housing of type B16/B32, power contacts: CK 4,0-ED, control contacts: CK 1,6-ED (crimp contacts not supplied as standard)
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
Connection method	Crimp connection

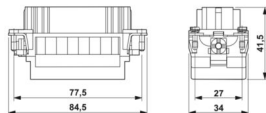
### Product properties

Type	B16
	B32
Product type	Contact insert with a fixed no. of positions
Number of positions	14
Connection profile	12+2+PE
Contact numbering	1 - 12 (power contacts)
	1 - 2 (control contacts)
No. of power contacts	12
No. of control contacts	2
Contact material type	turned
Series	HC-K

### Insulation characteristics

Overvoltage category	III
Degree of pollution	3

### Dimensions

Dimensional drawing	
Width	34 mm
Height	41.5 mm
Length	84.5 mm
Drill hole distance, horizontal	77.5 mm

### Mechanical characteristics

Contact diameter	4 mm
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### Connection data

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## Connection technology

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

## Conductor connection

Conductor cross section	1.5 mm <sup>2</sup> ... 6 mm <sup>2</sup> (power contacts)
	0.14 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> (control contact)
Connection cross section AWG	16 ... 10 (power contacts)
	26 ... 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)
Stripping length of the individual wire	9 mm (1.5 ... 2.5 mm <sup>2</sup> )
	8 mm (0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> )
	9.5 mm (4 ... 6 mm <sup>2</sup> )
	6 mm (2.5 mm <sup>2</sup> )

## Electrical properties

Rated voltage (III/3)	690 V (power contacts)
	250 V (control contacts)
Rated surge voltage	8 kV (power contacts)
	4 kV (control contacts)
Rated current	40 A (power contacts)
	10 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	Cu alloy
Contact carrier material	PC
Material of contact surface, power contact	Ag
Material of contact surface, control contact	Ag (alternatively Au)
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

### Ambient conditions

Ambient temperature (operation)	-40 °C ... 125 °C (including heating up of contacts)
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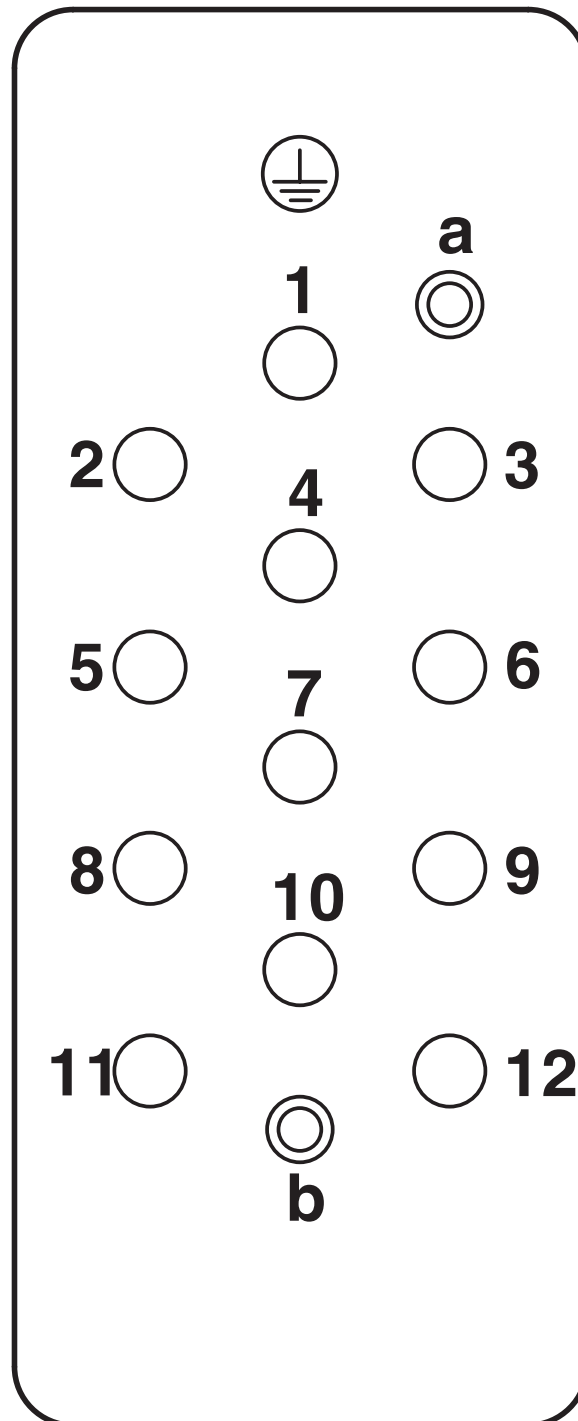
## Standards and regulations

### 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)

## Drawings

Schematic diagram



Connector pin assignment, connection side

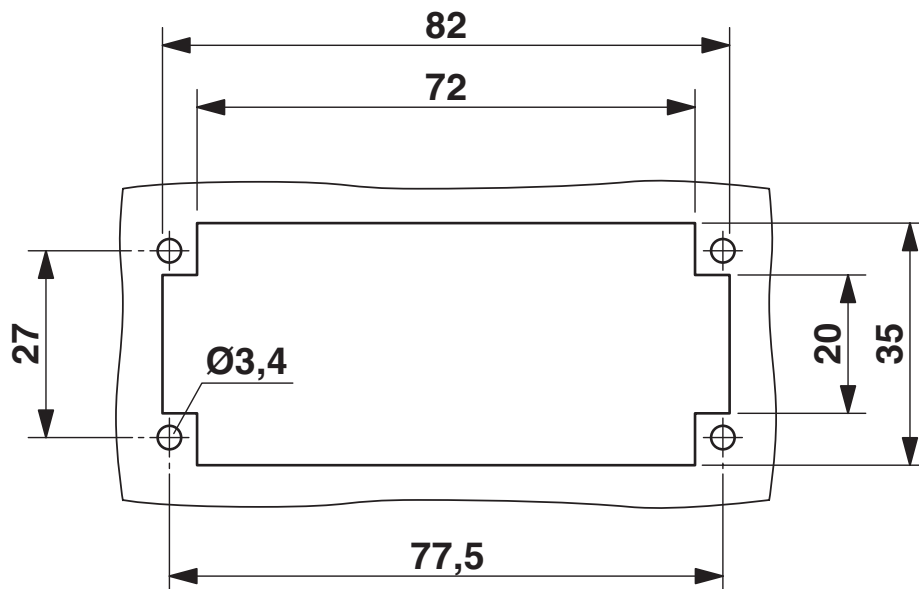
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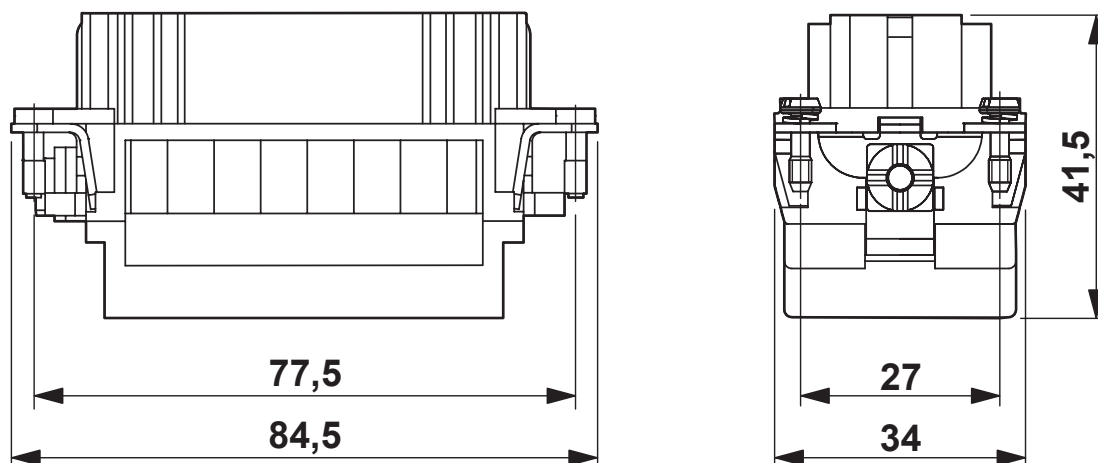


Dimensional drawing



Mounting cutout when used without housing

Dimensional drawing



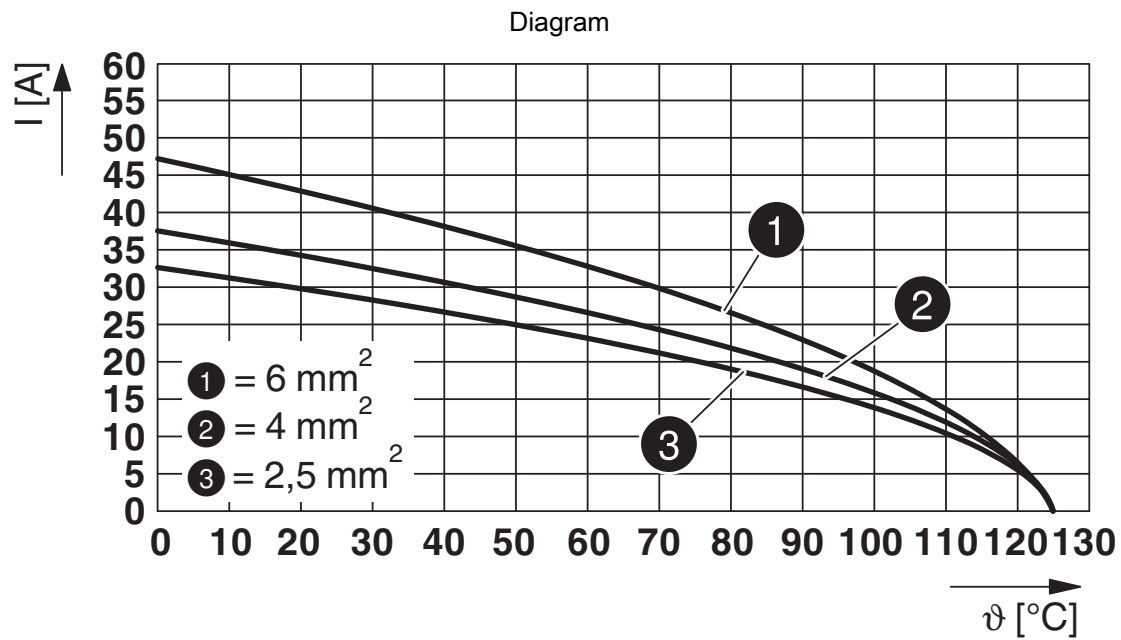
Dimensional drawing

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Derating diagram

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1636347>

<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	40 A	- 10	-
Control	600 V	10 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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