

# Contact insert - HC-K 4/0-EBUS



1679427

<https://www.phoenixcontact.com/pc/products/1679427>

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 documentation. Our General Terms of Use for Downloads are valid.

HEAVYCON socket insert, K4/0 series, 4-pos., screw connection without wire protection



## Commercial Data

Item number	1679427
Packing unit	1 pc
Minimum order quantity	1 pc
Product Key	BF7ABA
Catalog Page	Page 565 (C-2-2019)
GTIN	4017918168865
Weight per Piece (including packing)	117.1 g
Weight per Piece (excluding packing)	114.9 g
Customs tariff number	85366990
Country of origin	CN

# Contact insert - HC-K 4/0-EBUS



1679427

<https://www.phoenixcontact.com/pc/products/1679427>

## Technical Data

### Notes

General	For HEAVYCON-ADVANCE housings of B16 type and HEAVYCON housings of B16 and B32 types
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)

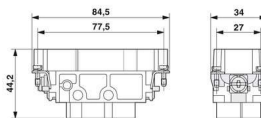
### Product properties

Type	B16
	B32
Product type	Contact insert with a fixed no. of positions
Number of positions	4
Connection profile	4+PE
No. of power contacts	4
No. of control contacts	0
Contact 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	44.2 mm
Length	84.5 mm
Drill hole distance, horizontal	77.5 mm

### Mechanical characteristics

Contact diameter	6 mm
------------------	------

### Connection data

# Contact insert - HC-K 4/0-EBUS



1679427

<https://www.phoenixcontact.com/pc/products/1679427>

Connection technology	Screw connection (power contacts)
Conductor connection	
Conductor cross section	1.5 mm <sup>2</sup> ... 16 mm <sup>2</sup>
Connection cross section AWG	16 ... 6
Tightening torque	0.8 Nm ... 1.2 Nm (PE connection)
	0.5 Nm ... 0.8 Nm (Mounting screws for mounting in the HEAVYCON housing)
Tightening torque	3 Nm (4.0 mm <sup>2</sup> ... 16 mm <sup>2</sup> )
	2 Nm (2.5 mm <sup>2</sup> )
	1.2 Nm (1.5 mm <sup>2</sup> )
Stripping length of the individual wire	14 mm

## Electrical properties

Rated voltage (III/3)	830 V (power contacts)
Rated surge voltage	8 kV (power contacts)
Rated current	80 A (power contacts)

## Mechanical properties

### Mechanical data

Insertion/withdrawal cycles	≥ 500
-----------------------------	-------

## Material specifications

Flammability rating according to UL 94	V0
Contact material	Cu alloy
Contact surface material	Ag
Contact carrier material	PC
Material of contact surface, power 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

### Ambient conditions

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

## 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)

# Contact insert - HC-K 4/0-EBUS

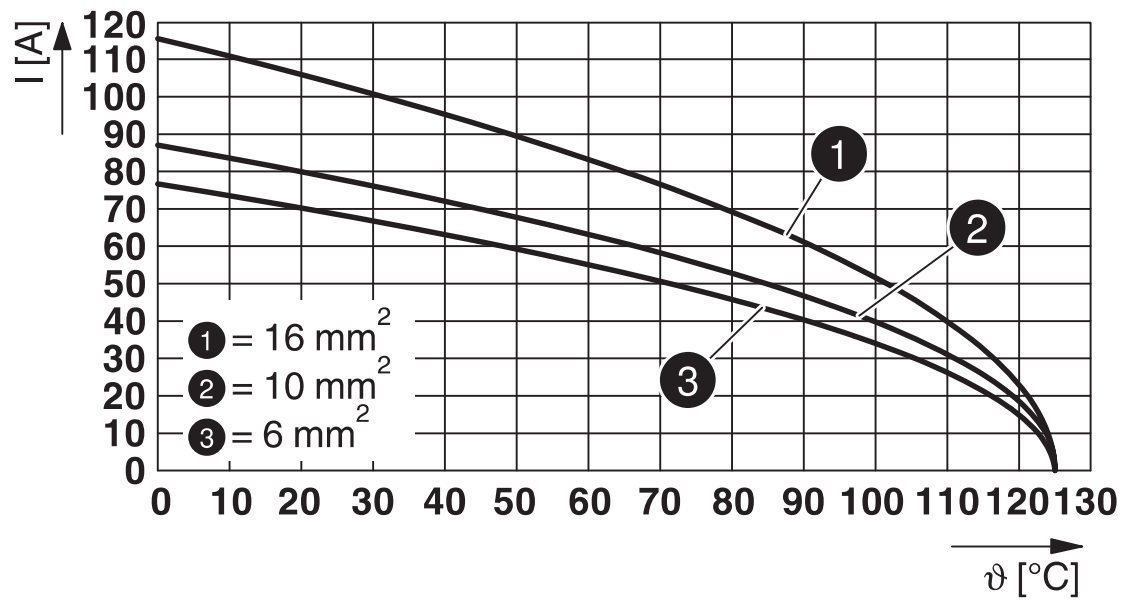
1679427

<https://www.phoenixcontact.com/pc/products/1679427>



## Drawings

Diagram



Derating diagram

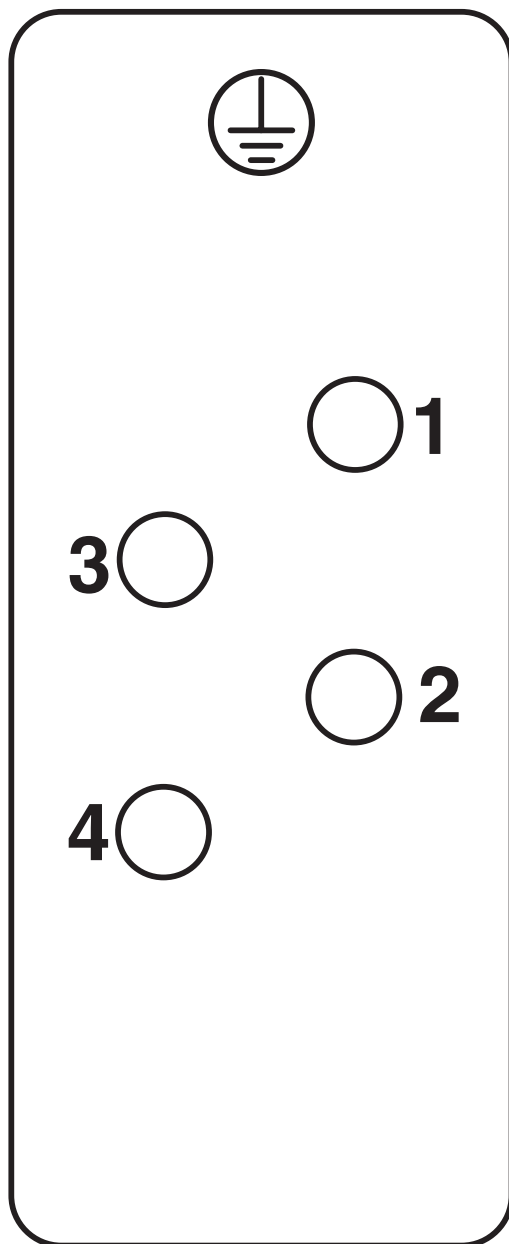
# Contact insert - HC-K 4/0-EBUS

1679427

<https://www.phoenixcontact.com/pc/products/1679427>



Schematic diagram



Connector pin assignment, connection side

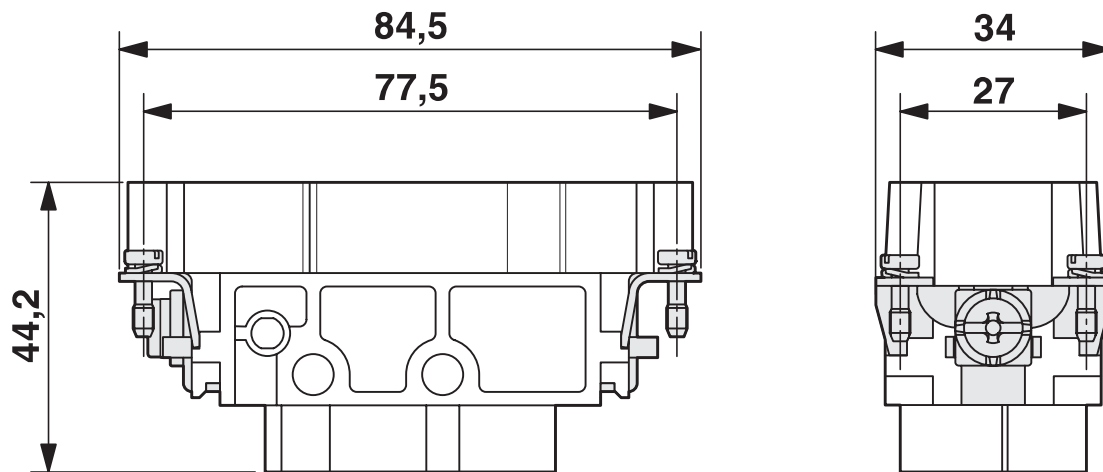
# Contact insert - HC-K 4/0-EBUS

1679427

<https://www.phoenixcontact.com/pc/products/1679427>

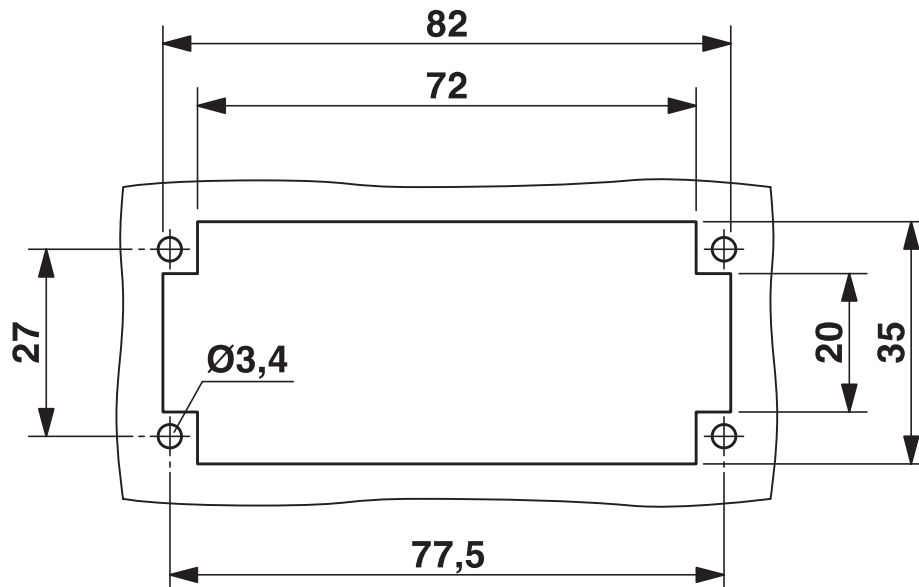


Dimensional drawing



Female insert

Dimensional drawing



Mounting cutout when used without housing

# Contact insert - HC-K 4/0-EBUS





1679427

<https://www.phoenixcontact.com/pc/products/1679427>

## Approvals

 <b>UL Recognized</b> Approval ID: E118976				
	Nominal Voltage $U_N$	Nominal Current $I_N$	Cross Section AWG	Cross Section $\text{mm}^2$
	600 V	80 A	- 6	-

 <b>EAC</b> Approval ID: RU C-DE.AI30.B.01102				
---	--	--	--	--

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

# Contact insert - HC-K 4/0-EBUS



1679427

<https://www.phoenixcontact.com/pc/products/1679427>

## Classifications

### ECLASS

ECLASS-9.0	27440205
ECLASS-10.0.1	27440205
ECLASS-11.0	27440205

### ETIM

ETIM 8.0	EC000438
----------	----------

### UNSPSC

UNSPSC 21.0	39121500
-------------	----------



# Contact insert - HC-K 4/0-EBUS



1679427

<https://www.phoenixcontact.com/pc/products/1679427>

## Environmental Product Compliance

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