

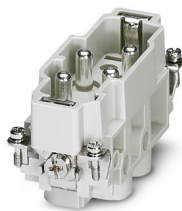
HC-K 4/0-ESTS - Contact insert



1679414

<https://www.phoenixcontact.com/us/products/1679414>

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Contact insert, number of positions: 4+PE, size: B16, power contacts: 4, control contacts: 0, Pin, Screw connection, 830 V, 80 A, 1.5 mm² ... 16 mm², application: Power

Your advantages

- Shock and vibration-resistant in accordance with DIN EN 61373

Commercial data

Item number	1679414
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF61
Product key	AF7ABA
GTIN	4017918168858
Weight per piece (including packing)	120 g
Weight per piece (excluding packing)	115.8 g
Customs tariff number	85366990
Country of origin	CN

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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 note	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)
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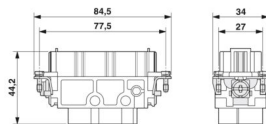
Product properties

Product type	Contact insert with a fixed no. of positions
Series	HC-K
Application	Power
Type	B16 B32
Number of positions	4
Connection profile	4+PE
Contact numbering	1 - 4
No. of power contacts	4
No. of control contacts	0
Contact material type	turned
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	84.5 mm
Drill hole distance, horizontal	77.5 mm

Mechanical characteristics

Contact diameter	6 mm
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Connection data

Connection technology

Connection technology	Screw connection (power contacts)
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Conductor connection

Conductor cross section	1.5 mm ² ... 16 mm ²
Connection cross section AWG	16 ... 6
Tightening torque	0.8 Nm ... 1.2 Nm (PE connection cross-section with cable lug expandable to 16 mm ²)
	0.5 Nm ... 0.8 Nm (Mounting screws for mounting in the HEAVYCON housing)
	3 Nm (4.0 mm ² ... 16 mm ²)
	2 Nm (2.5 mm ²)
	1.2 Nm (1.5 mm ²)
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
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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
	PC

Environmental and real-life conditions

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

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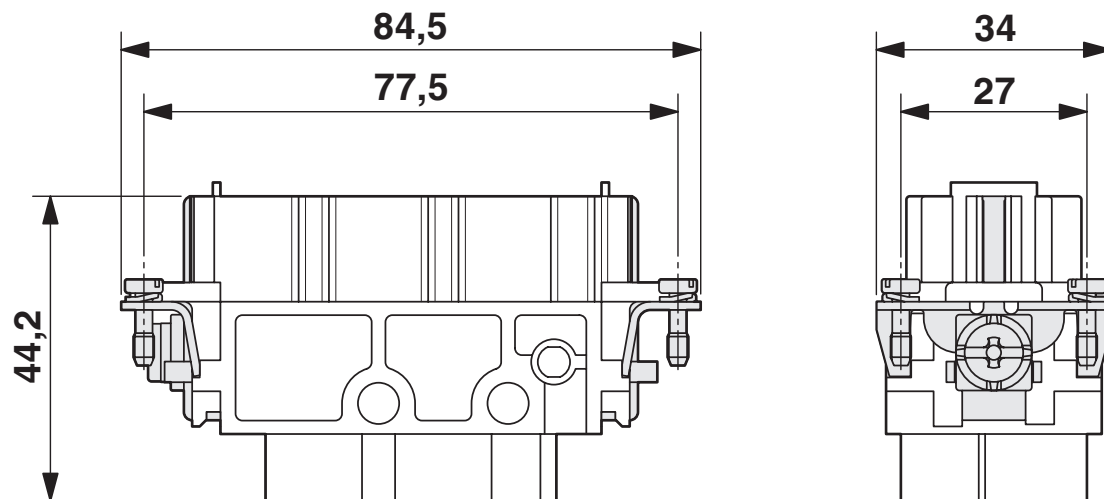


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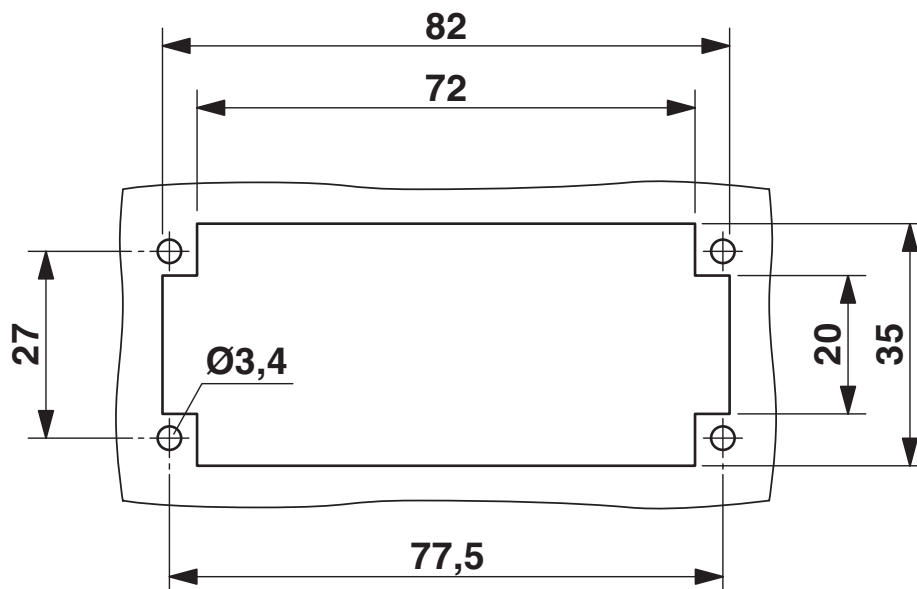
Drawings

Dimensional drawing



Male insert

Dimensional drawing



Mounting cutout when used without housing

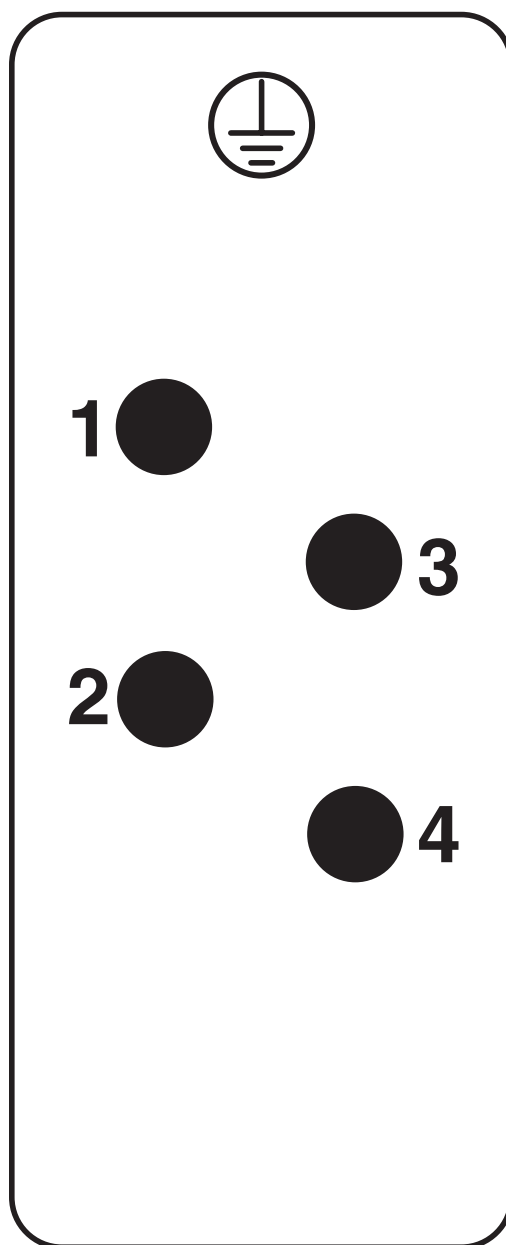
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Schematic diagram



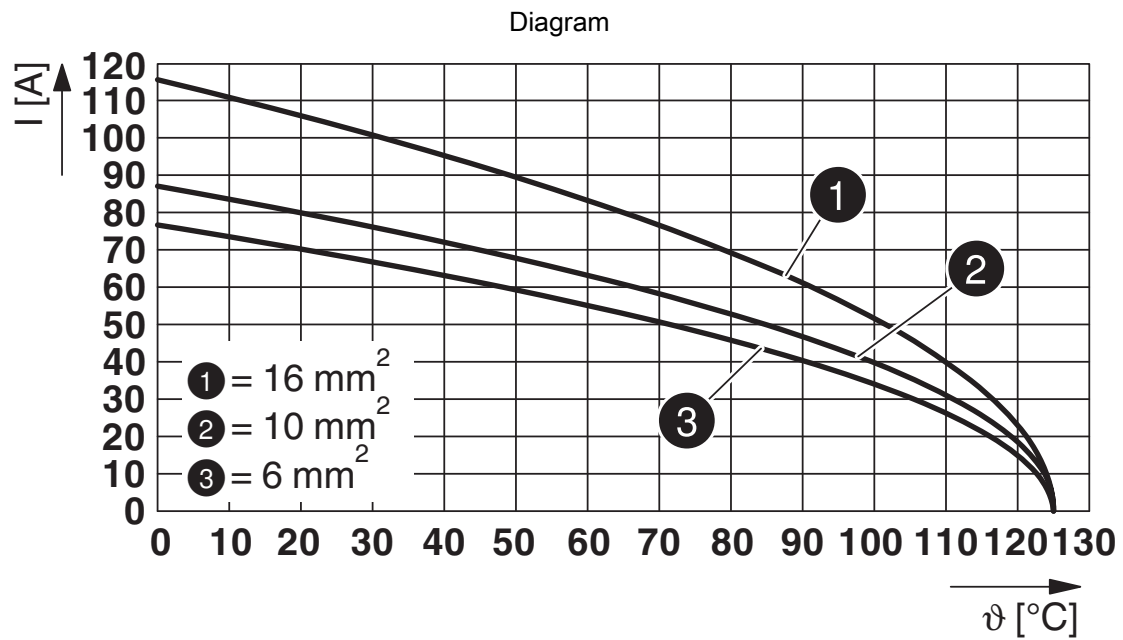
Connector pin assignment, connection side

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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/1679414>

 UL Recognized Approval ID: E118976	Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
	keine			
	600 V	80 A	- 6	-

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Classifications

ECLASS

ECLASS-13.0	27440205
ECLASS-15.0	27440205

ETIM

ETIM 9.0	EC000438
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UNSPSC

UNSPSC 21.0	39121500
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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	6(c)

China RoHS

Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits

EU REACH SVHC

REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
SCIP	ef036728-252d-401f-bf52-90336a2a46b2

EF3.0 Climate Change

CO2e kg	9.388 kg CO2e
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