# HC-K 6/0-EBUS - Contact insert

1580537

https://www.phoenixcontact.com/us/products/1580537

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Contact insert, number of positions: 6+PE, size: B16, power contacts: 6, control contacts: 0, Socket, Screw connection, 1000 V, 80 A, 6 $mm^2$ ... 16 $mm^2$, application: Power

## Your advantages

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

## Commercial data

| | |
|---|---|
| Item number | 1580537 |
| Packing unit | 10 pc |
| Minimum order quantity | 1 pc |
| Sales key | BF61 |
| Product key | BF7ABA |
| Catalog page | Page 563 (C-2-2019) |
| GTIN | 4046356463331 |
| Weight per piece (including packing) | 147.98 g |
| Weight per piece (excluding packing) | 147.98 g |
| Customs tariff number | 85366990 |
| Country of origin | DE |

## Technical data

### Notes

| | |
|---|---|
| General | For HEAVYCON ADVANCE and HEAVYCON housing type B16/B32; screw head shape of connection screws: Allen screws, wrench size 3 mm. |
| General | Connectors may be operated only when there is no load/voltage. |
| General | Flexible conductors may be used without ferrules as long as they comply with IEC 60228 Class 1 ... 5. |

### Mounting

| | |
|---|---|
| Assembly note | To ensure correct use, installation in housing with IP54 protection or better is required |
| | For housing type B16. |

### Product properties

| | |
|---|---|
| Product type | Contact insert with a fixed no. of positions |
| Series | HC-K |
| Application | Power |
| Type | B16 |
| | B32 |
| Number of positions | 6 |
| Connection profile | 6+PE |
| Contact numbering | 1 - 6 |
| No. of power contacts | 6 |
| No. of control contacts | 0 |
| Contact material type | turned |

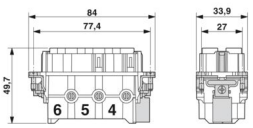
Data management status

| | |
|---|---|
| Article revision | 05 |

Insulation characteristics

| | |
|---|---|
| Overvoltage category | III |
| Degree of pollution | 3 |

### Dimensions

| | |
|---|---|
| Dimensional drawing |  |
| Width | 33.9 mm |
| Height | 49.7 mm |
| Length | 84 mm |
| Drill hole distance, horizontal | 77.4 mm |

Mechanical characteristics

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

## Connection data

Connection technology

| | |
|---|---|
| Connection technology | Screw connection (without wire protection) |
| Connection in acc. with standard | IEC / EN |

Conductor connection

| | |
|---|---|
| Conductor cross section | 6 mm² ... 16 mm² (without ferrule) |
| | 2.5 mm² ... 16 mm² (with ferrule) |
| Connection cross section AWG | 10 ... 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) |
| | 1.8 Nm |
| Stripping length of the individual wire | 15 mm |

## Electrical properties

| | |
|---|---|
| Rated voltage (III/3) | 1000 V |
| Rated surge voltage | 8 kV |
| | 8 kV |
| Rated current | 80 A |

## Mechanical properties

Mechanical data

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

## Material specifications

| | |
|---|---|
| Flammability rating according to UL 94 | V0 |
| Contact material | Copper alloy |
| Contact surface material | Ag |
| Contact carrier material | PA |
| Material of contact surface, power contact | Ag |
| Standards/regulations | PA: Fire protection in rail vehicles - requirement sets R22, R23, and R24 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) |

## Standards and regulations

| | |
|---|---|
| Constructional and testing regulations | DIN VDE 0627/86 |
| | DIN VDE 0110/02.79 |

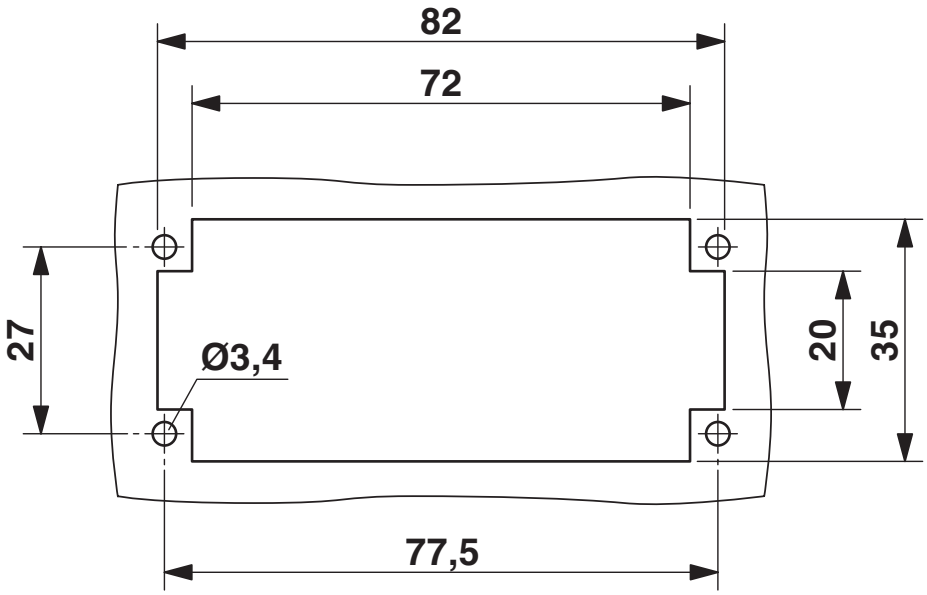
| | |
|---|---|
| | DIN VDE 0110-1/04.97 |
| | IEC 60664-1, DIN IEC 60512 |
| Tests | DIN VDE 0627/86 |
| | DIN VDE 0110/02.79 |
| | DIN VDE 0110-1/04.97 |
| | IEC 60664-1, DIN IEC 60512 |

Testing

| | |
|---|---|
| Standards/regulations | PA: Fire protection in rail vehicles - requirement sets R22, R23, and R24 acc. to DIN EN 45545-2 (Risk level HL1 - HL3) |

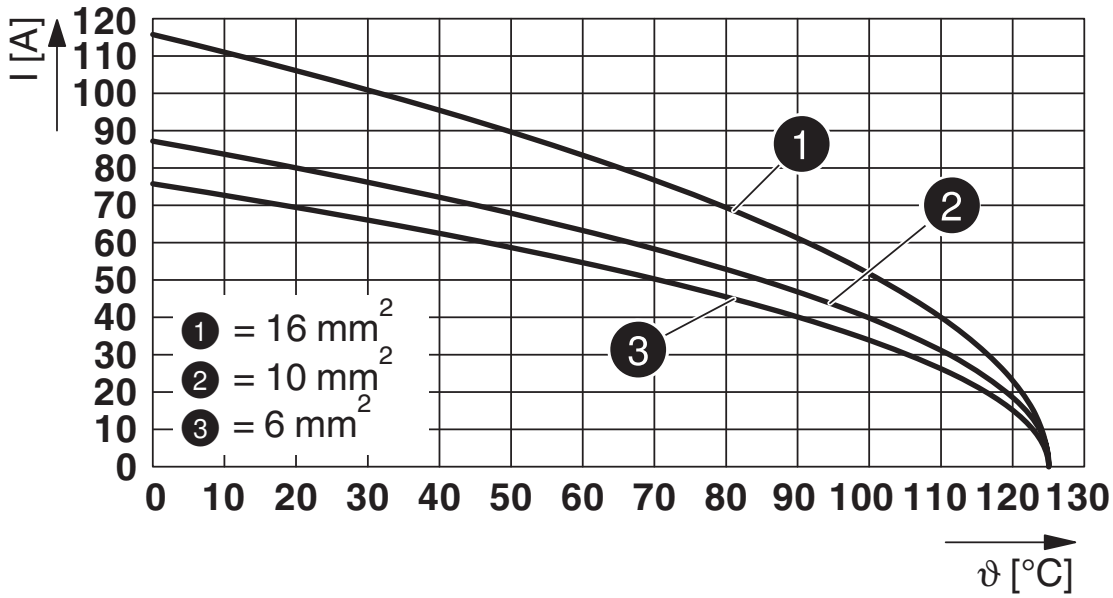
## Drawings

Dimensional drawing



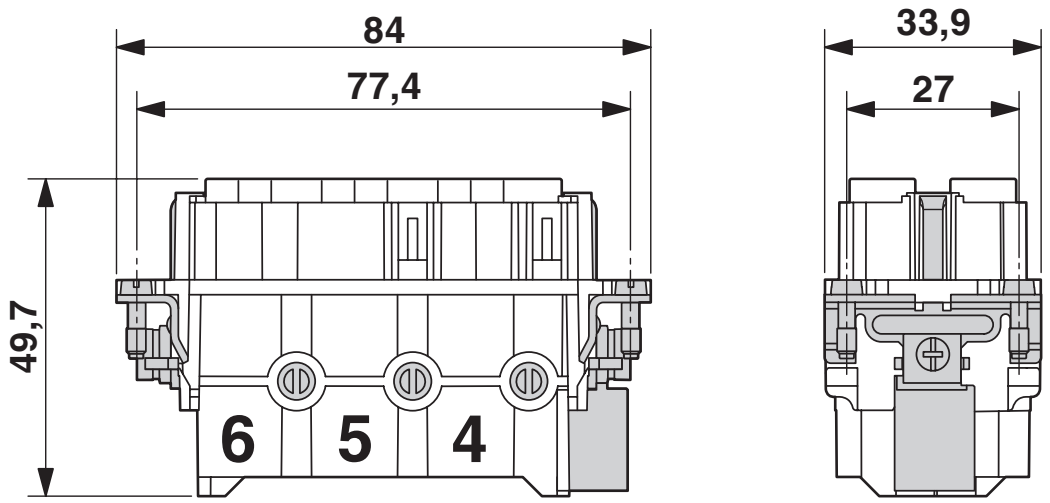

Mounting cutout when used without housing

Diagram



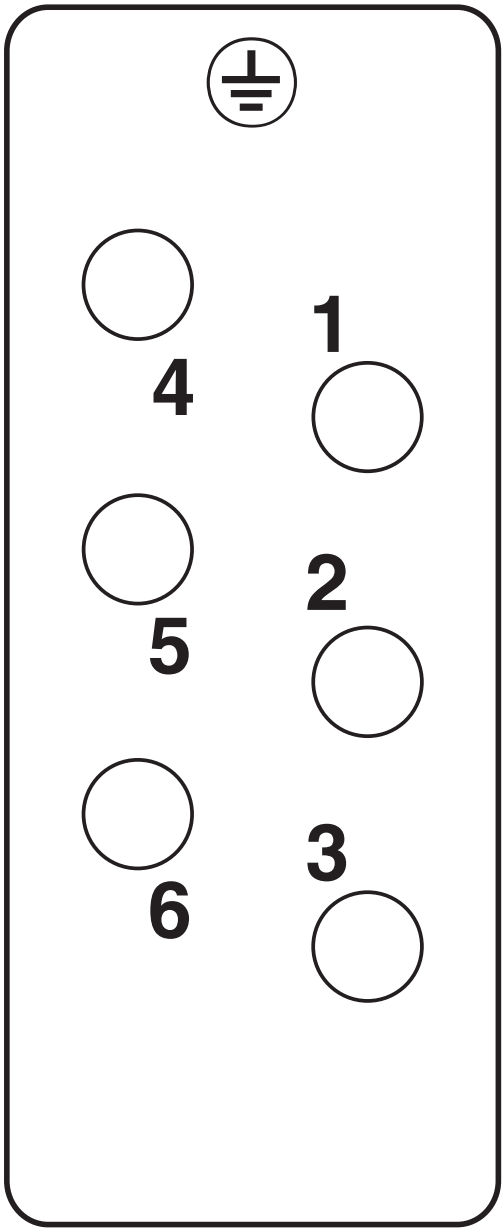

Derating diagram

Dimensional drawing




Dimensional drawing

Schematic diagram




Connector pin assignment, connection side

## Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1580537

**DNV**
Approval ID: TAE000037S

**CSA**
Approval ID: 013631_0_000

| | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
|---|---|---|---|---|
| | 600 V | 60 A | 10 - 6 | - |

**UL Recognized**
Approval ID: E118976

| | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
|---|---|---|---|---|
| | 600 V | 80 A | - 6 | - |

**EAC**
Approval ID: RU C-DE.BL08.B.00511

## Classifications

### ECLASS

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

### ETIM

| | |
|---|---|
| ETIM 9.0 | EC000438 |

### UNSPSC

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

## Environmental product compliance

EU RoHS

| | |
|---|---|
| Fulfills EU RoHS substance requirements | Yes, No exemptions |

China RoHS

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

EU REACH SVHC

| | |
|---|---|
| REACH candidate substance (CAS No.) | No substance above 0.1 wt% |


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