

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 mm² ... 16 mm², application: Power

Commercial data

| | |
|--------------------------------------|---------------------|
| Item number | 1580537 |
| Packing unit | 10 pc |
| Minimum order quantity | 10 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 |

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

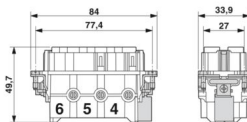
Product properties

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

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 |
|------------------|------|

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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 |

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| | |
|-------|----------------------------|
| 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) |
|-----------------------|---|

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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

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

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Environmental product compliance

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|------------|--|
| REACH SVHC | Lead 7439-92-1 |
| China RoHS | Environmentally Friendly Use Period = 50 years |
| | For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads" |

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