

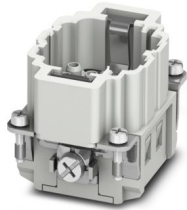
HC-BB18-I-CT-M - Contact insert



1584716

<https://www.phoenixcontact.com/us/products/1584716>

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Contact insert, number of positions: 18+PE, size: B10, number of connections per position: 1, Pin, Crimp connection, 500 V, 16 A, 0.5 mm² ... 4 mm²

Your advantages

- For fast coding with plastic profile (Order No. 1410916, type CP-HC-S)
- Shock and vibration-resistant in accordance with DIN EN 61373

Commercial data

| | |
|--------------------------------------|---------------------|
| Item number | 1584716 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | BF61 |
| Product key | BF7ABD |
| Catalog page | Page 555 (C-2-2019) |
| GTIN | 4046356149235 |
| Weight per piece (including packing) | 48.7 g |
| Weight per piece (excluding packing) | 48.7 g |
| Customs tariff number | 85366990 |
| Country of origin | CN |

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Technical data

Notes

| | |
|---------|---|
| General | For HEAVYCON ADVANCE and HEAVYCON housing of B10 type, crimp contacts CK 2,5-ED (crimp contacts not included in the scope of supply). |
| 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 |
|---------------|---|

Product properties

| | |
|------------------------------------|--|
| Product type | Contact insert with a fixed no. of positions |
| Series | HC-BB |
| Type | B10 |
| Number of positions | 18 |
| Connection profile | 18+PE |
| Contact numbering | 1 - 18 |
| Number of connections per position | 1 |
| Contact material type | turned |

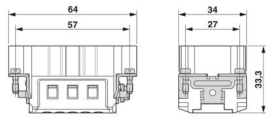
Data management status

| | |
|------------------|----|
| Article revision | 04 |
|------------------|----|

Insulation characteristics

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

Dimensions

| | |
|---------------------------------|--|
| Dimensional drawing |  |
| Width | 34 mm |
| Height | 33.2 mm |
| Length | 64 mm |
| Drill hole distance, horizontal | 57 mm |
| Drill hole distance, vertical | 27 mm |
| Mechanical characteristics | |
| Minimum housing height | 72 mm |
| Contact diameter | 2.5 mm |

Connection data

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Connection technology

| | |
|------------------------------------|------------------|
| Connection technology | Crimp connection |
| Number of connections per position | 1 |
| Connection in acc. with standard | IEC / EN |

Conductor connection

| | |
|---|---|
| Conductor cross section | 0.5 mm ² ... 4 mm ² |
| Connection cross section AWG | 20 ... 12 |
| 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 | 7.5 mm |

Electrical properties

| | |
|-----------------------|-------|
| Rated voltage (III/3) | 500 V |
| Rated surge voltage | 6 kV |
| Rated current | 16 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 (alternatively Au) |
| Contact carrier material | PC |
| Standards/regulations | PC: 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

Testing

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

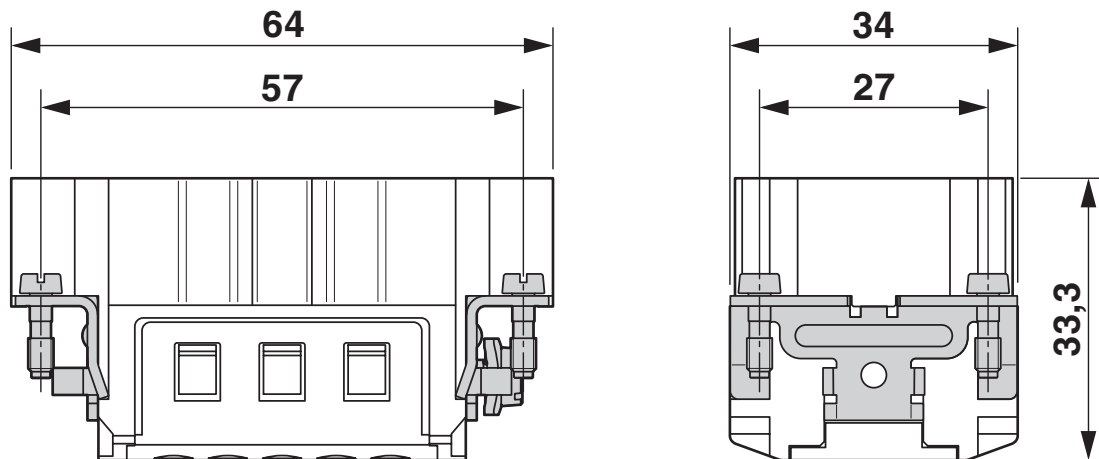
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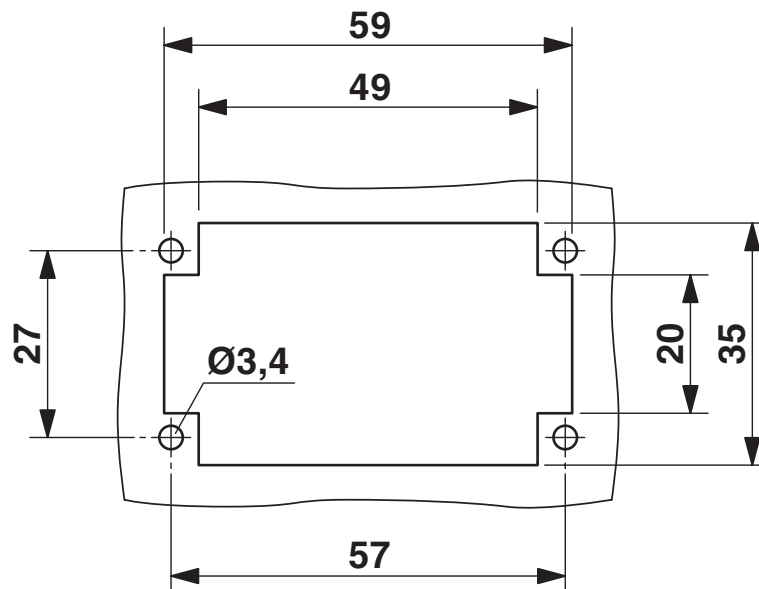
Drawings

Dimensional drawing



Male insert

Dimensional drawing



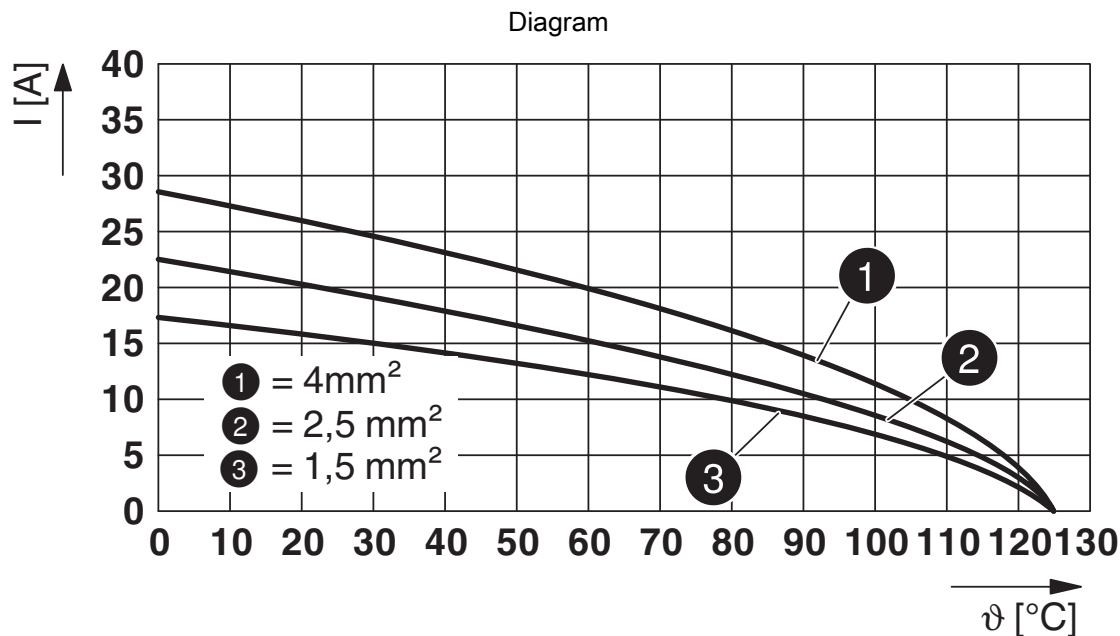
Mounting cutout when used without housing

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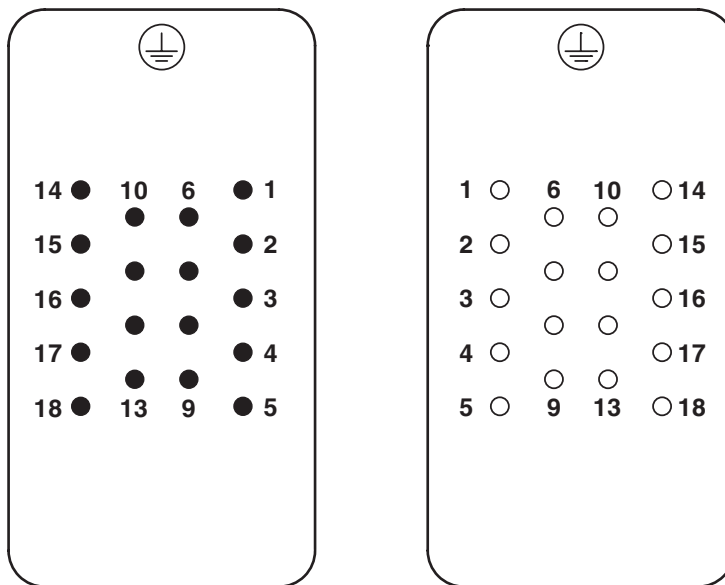
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Derating diagram

Schematic diagram



Connector pin assignment: Left pin - right socket

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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1584716>

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 | 16 A | - 12 | - |



UL Recognized

Approval ID: E118976

| | Nominal voltage U_N | Nominal current I_N | Cross section AWG | Cross section mm^2 |
|--|-----------------------|-----------------------|-------------------|-----------------------------|
| | 600 V | 20 A | - 12 | - |



EAC

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



UL Recognized

Approval ID: E468743

| | Nominal voltage U_N | Nominal current I_N | Cross section AWG | Cross section mm^2 |
|--|-----------------------|-----------------------|-------------------|-----------------------------|
| | 600 V | 16 A | - | - |

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Classifications

ECLASS

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

ETIM

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

UNSPSC

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

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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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