

1648225

https://www.phoenixcontact.com/us/products/1648225

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Contact insert, number of positions: 10+PE, size: B10, number of connections per position: 1, Socket, Crimp connection, 500 V, 16 A, 0.5 mm² ... 4 mm², application: Power

Your advantages

- · For fast coding with plastic profile

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

Commercial data

| Item number | 1648225 |
|--------------------------------------|---------------|
| Packing unit | 1 pc |
| Minimum order quantity | 10 pc |
| Sales key | BF61 |
| Product key | AF7ABC |
| GTIN | 4046356092357 |
| Weight per piece (including packing) | 46.8 g |
| Weight per piece (excluding packing) | 46.09 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 |
|---------------|---|
| | Remove the crimp contact using a screwdriver. The opening for the screwdriver is next to the opening where the conductor is inserted. |

Product properties

| Product type | Contact insert with a fixed no. of positions |
|------------------------------------|--|
| Series | НС-В |
| Application | Power |
| Туре | B10 |
| Number of positions | 10 |
| Connection profile | 10+PE |
| Contact numbering | 1 - 10 |
| Number of connections per position | 1 |
| Contact material type | turned |
| Insulation characteristics | |
| Overvoltage category | III |
| Degree of pollution | 3 |

Dimensions

| Dimensional drawing | 64 57 27 27 68 |
|---------------------------------|----------------------------|
| Width | 34 mm |
| Height | 34.6 mm |
| Length | 64 mm |
| Drill hole distance, horizontal | 57 mm |
| Mechanical characteristics | |
| Contact diameter | 2.5 mm |

Connection data



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| Connection | techno | logy |
|------------|--------|------|
|------------|--------|------|

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

Conductor connection

| Contactor Connection | |
|---|--|
| Conductor cross section | 0.5 mm² 4 mm² |
| 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 |
| SCCR | 5 kA (UL 2237) |

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 |

Environmental and real-life conditions

Ambient conditions

| Degree of protection | IP20 |
|---------------------------------|--|
| Ambient temperature (operation) | -40 °C 125 °C (including heating up of contacts) |

Standards and regulations

| DIN EN 61984 |
|--------------|
| DIN EN 60664 |
| IEC 60352 |
| DIN EN 61984 |
| DIN EN 60664 |
| IEC 60352 |
| |

Testing



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

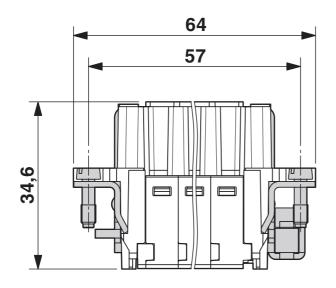
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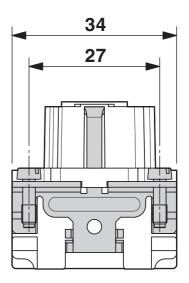
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Drawings

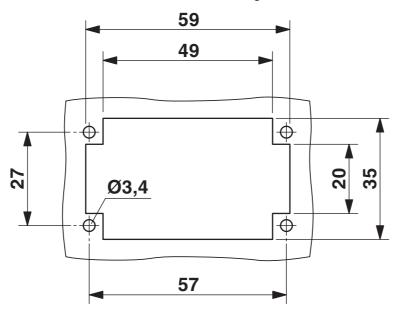
Dimensional drawing





Female insert

Dimensional drawing



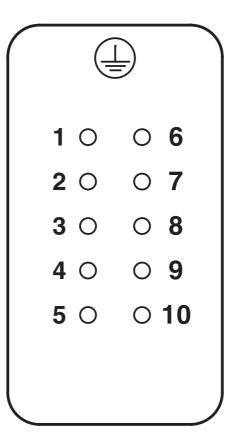
Mounting cutout when used without housing



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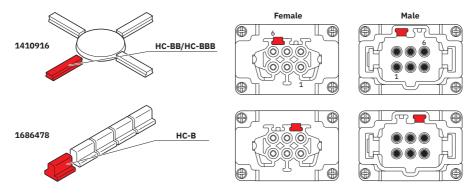


Schematic diagram



Connector pin assignment, connection side

Schematic diagram

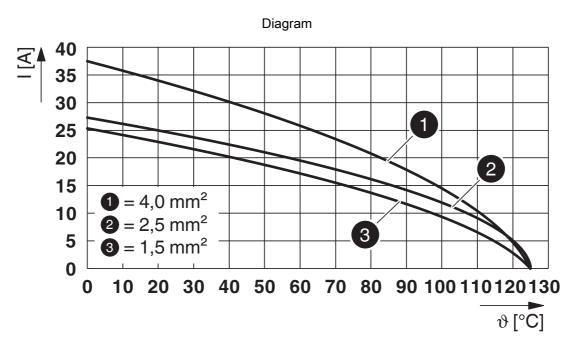


Coding options



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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/1648225

Approval ID: TAE000037S

| CSA Approval ID: 013631_6233_01 | | | | | |
|---------------------------------|--|--------------------------------|--------------------------------|-------------------|-------------------------------|
| | | Nominal voltage U _N | Nominal current I _N | Cross section AWG | Cross section mm ² |
| | | 600 V | 20 A | 20 - 12 | - |

| cULus Recognized Approval ID: E468743 | | | | | |
|---------------------------------------|--|--------------------------------|--------------------------------|-------------------|-------------------------------|
| | | Nominal voltage U _N | Nominal current I _N | Cross section AWG | Cross section mm ² |
| | | 600 V | 13 A | - | - |

| cULus Recognized Approval ID: E468743 | | ed | | | |
|---------------------------------------|--|-----------------------|--------------------------------|-------------------|-------------------------------|
| | | Nominal voltage U_N | Nominal current I _N | Cross section AWG | Cross section mm ² |
| | | 600 V | 14 A | - | - |



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Classifications

| _ | \sim | $\Lambda \cap \cap$ |
|---|--------|---------------------|
| | | |
| | | A. 7. 7 |

| | ECLASS-13.0 | 27440205 | | |
|--------|-------------|----------|--|--|
| F. | ГІМ | | | |
| _ | 1 11 11 | | | |
| | 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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