

HC-A 16-ESTC - Contact insert



1677034

<https://www.phoenixcontact.com/us/products/1677034>

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HEAVYCON male insert, A16 series, 16-pos., crimp connection



Commercial data

| | |
|--------------------------------------|--------------------------------|
| Item number | 1677034 |
| Packing unit | 1 pc |
| Note | Made to order (non-returnable) |
| Sales key | BF61 |
| Product key | AF7ABB |
| GTIN | 4017918129651 |
| Weight per piece (including packing) | 45.96 g |
| Weight per piece (excluding packing) | 43.04 g |
| Customs tariff number | 85366990 |
| Country of origin | DE |

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Technical data

Mounting

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

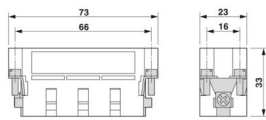
Product properties

| | |
|------------------------------------|--|
| Product type | Contact insert with a fixed no. of positions |
| Series | HC-A |
| Type | D25 D50 |
| Number of positions | 16 |
| Connection profile | 16+PE |
| Contact numbering | 1 - 16 |
| Number of connections per position | 1 |
| Contact material type | turned |

Insulation characteristics

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

Dimensions

| | |
|---------------------------------|--|
| Dimensional drawing |  |
| Width | 23 mm |
| Height | 31.8 mm |
| Length | 72 mm |
| Drill hole distance, horizontal | 66 mm |
| Drill hole distance, vertical | 16 mm |

Mechanical characteristics

| | |
|------------------|--------|
| Contact diameter | 2.5 mm |
|------------------|--------|

Connection data

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 (applies to stranded conductors) |
| Connection cross section AWG | 20 ... 12 |

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| | |
|---|--|
| Tightening torque | 0.7 Nm ... 1 Nm (PE connection) |
| | 0.5 Nm ... 0.8 Nm (Mounting screws for mounting in the HEAVYCON housing) |
| Stripping length of the individual wire | 8 mm |

Electrical properties

| | |
|-----------------------|---------|
| Rated voltage (III/3) | 250 V |
| Rated surge voltage | 4 kV |
| Rated current | 16 A |
| Test voltage | 4 kV AC |

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 | PA |

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 |
| | IEC 60352 |
| Tests | DIN VDE 0627/86 |
| | DIN VDE 0110/02.79 |
| | DIN VDE 0110-1/04.97 |
| | IEC 60664-1, DIN IEC 60512 |
| | IEC 60352 |

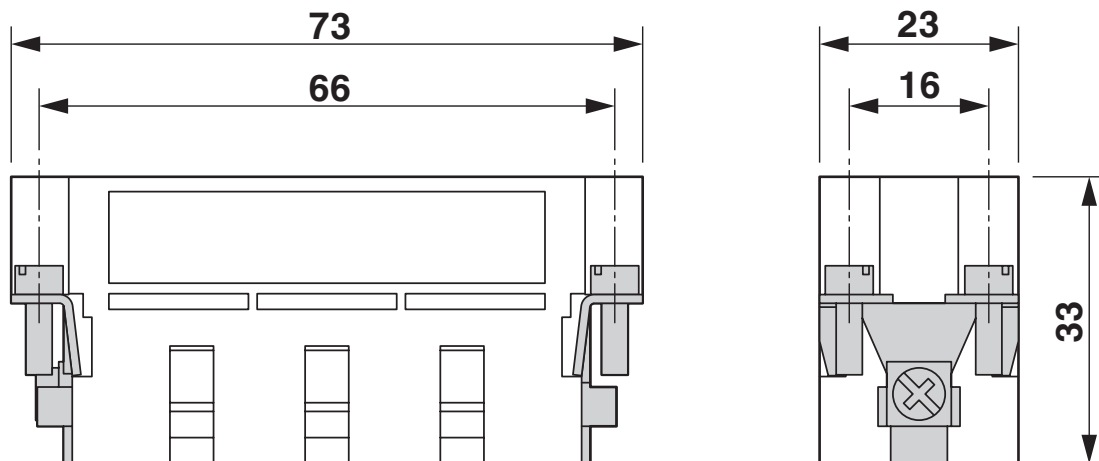
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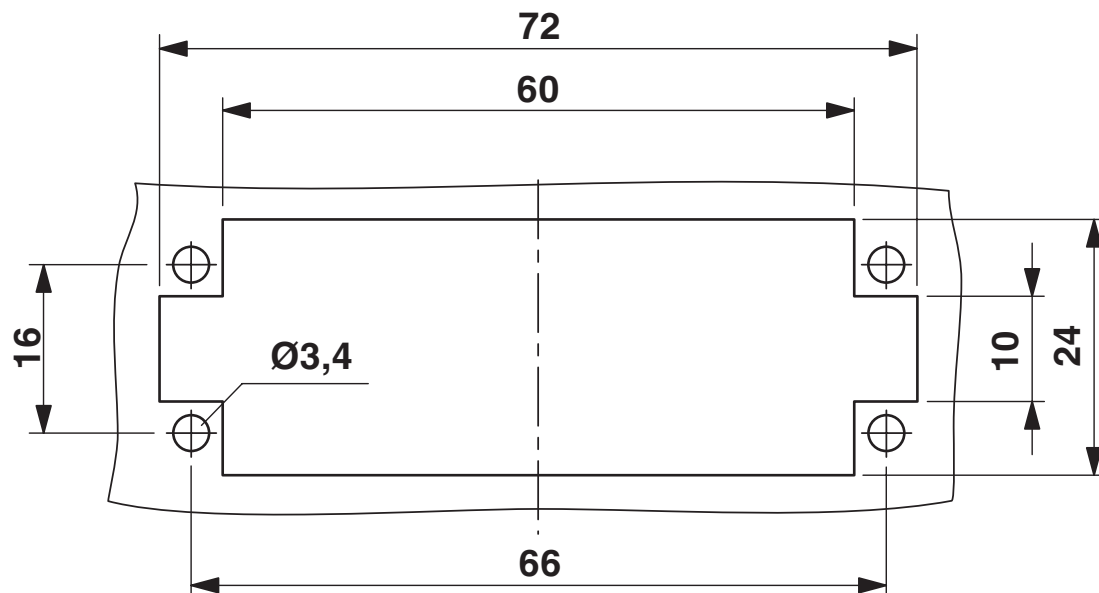
Drawings

Dimensional drawing



Male insert

Dimensional drawing



Mounting cutout when used without housing

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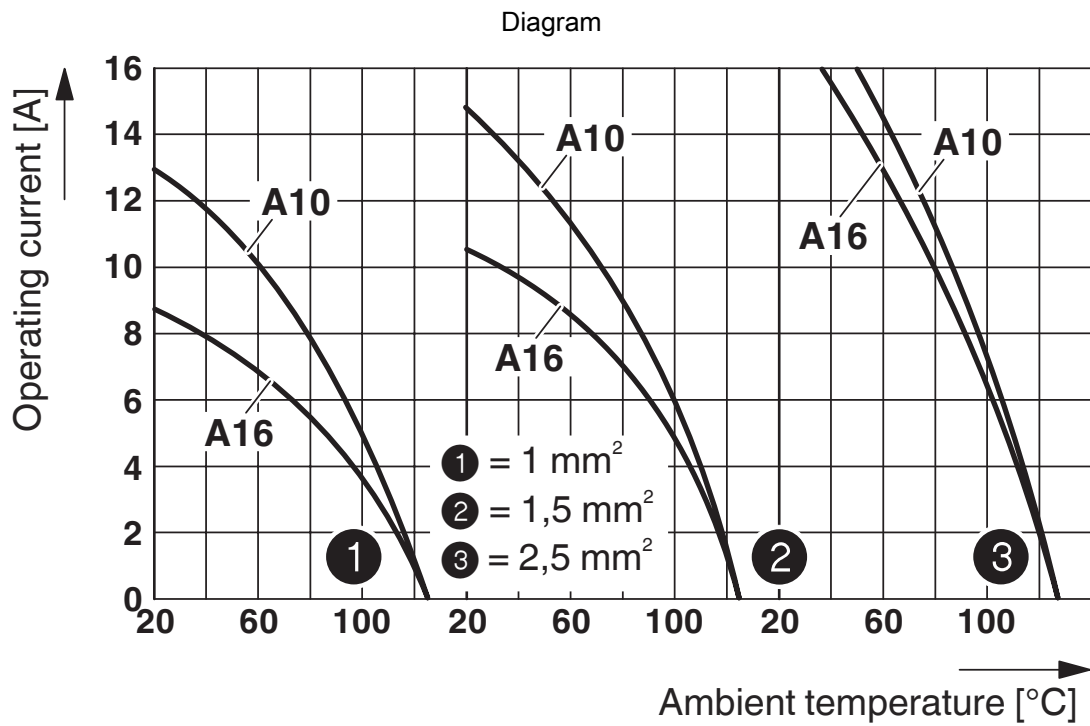
Schematic diagram



Connector pin assignment, connection side

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Derating diagram: HC-A...C series

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Classifications

ECLASS

| | |
|-------------|----------|
| ECLASS-13.0 | 27440205 |
| ECLASS-15.0 | 27440205 |

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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