

# HC-A 16-EBUC-32 - Contact insert

1677050

<https://www.phoenixcontact.com/no/products/1677050>



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HEAVYCON female insert, A16 series, 16-pos., crimp connection, numbering from 17 ... 32



## Commercial data

|                                      |                     |
|--------------------------------------|---------------------|
| Item number                          | 1677050             |
| Packing unit                         | 10 pc               |
| Minimum order quantity               | 1 pc                |
| Sales key                            | 31BBF               |
| Product key                          | BF7ABB              |
| Catalog page                         | Page 521 (C-2-2019) |
| GTIN                                 | 4017918129675       |
| Weight per piece (including packing) | 45.64 g             |
| Weight per piece (excluding packing) | 45.64 g             |
| Customs tariff number                | 85366990            |
| Country of origin                    | DE                  |

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## Technical data

### Notes

|         |                                                                                                      |
|---------|------------------------------------------------------------------------------------------------------|
| General | for HC-D25 / HC-D50 housing, crimp contact CK2,5-ED (crimp contacts not included in scope of supply) |
| General | Connectors may be operated only when there is no load/voltage.                                       |

### Mounting

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

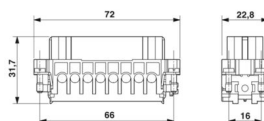
### Product properties

|                       |                                              |
|-----------------------|----------------------------------------------|
| Type                  | D25                                          |
|                       | D50                                          |
| Product type          | Contact insert with a fixed no. of positions |
| Number of positions   | 16                                           |
| Connection profile    | 16+PE                                        |
| Contact numbering     | 17 - 32                                      |
| Contact material type | turned                                       |
| Series                | HC-A                                         |

### Insulation characteristics

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

### Dimensions

|                                 |                                                                                      |
|---------------------------------|--------------------------------------------------------------------------------------|
| Dimensional drawing             |  |
| Width                           | 23 mm                                                                                |
| Height                          | 31.7 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 |
| Connection in acc. with standard | IEC / EN         |

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## Conductor connection

|                                         |                                                                          |
|-----------------------------------------|--------------------------------------------------------------------------|
| Conductor cross section                 | 0.14 mm² ... 4 mm² (applies to stranded conductors)                      |
| Connection cross section AWG            | 20 ... 12                                                                |
| 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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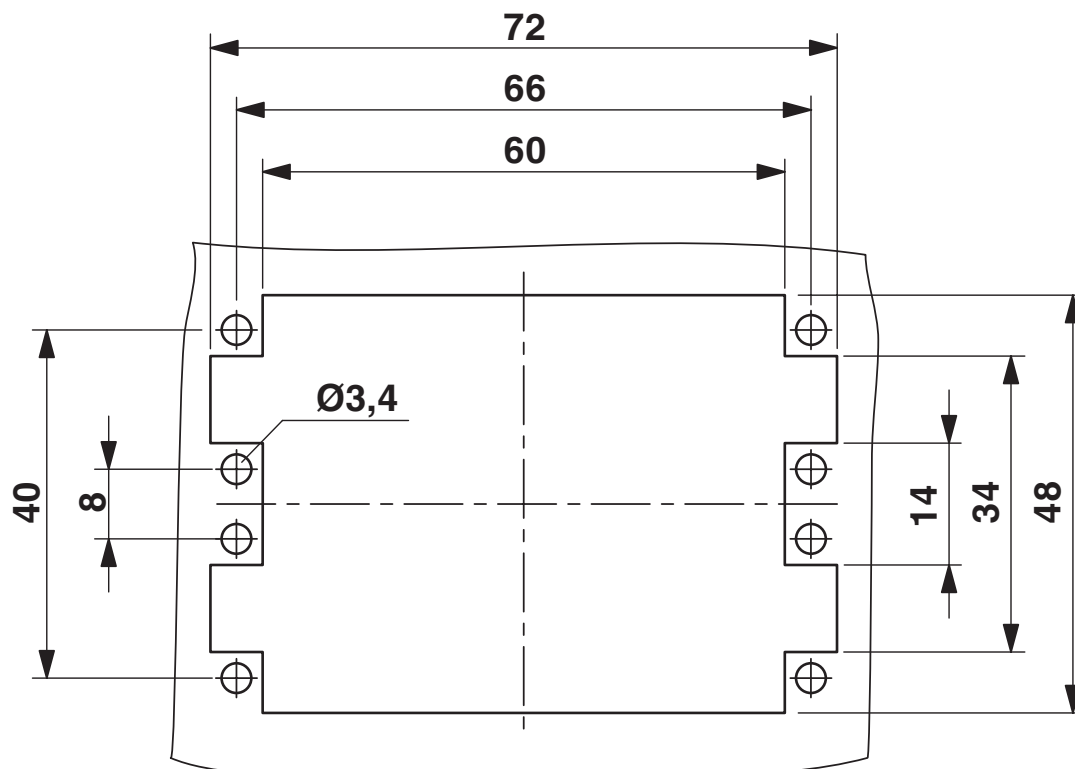


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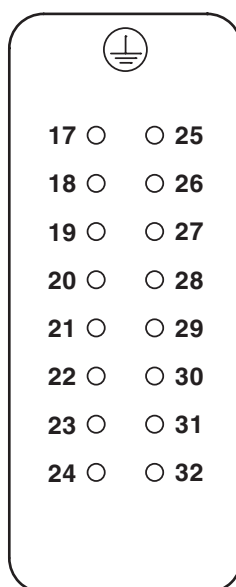
## Drawings

Dimensional drawing



Mounting cutout when used without housing

Schematic diagram



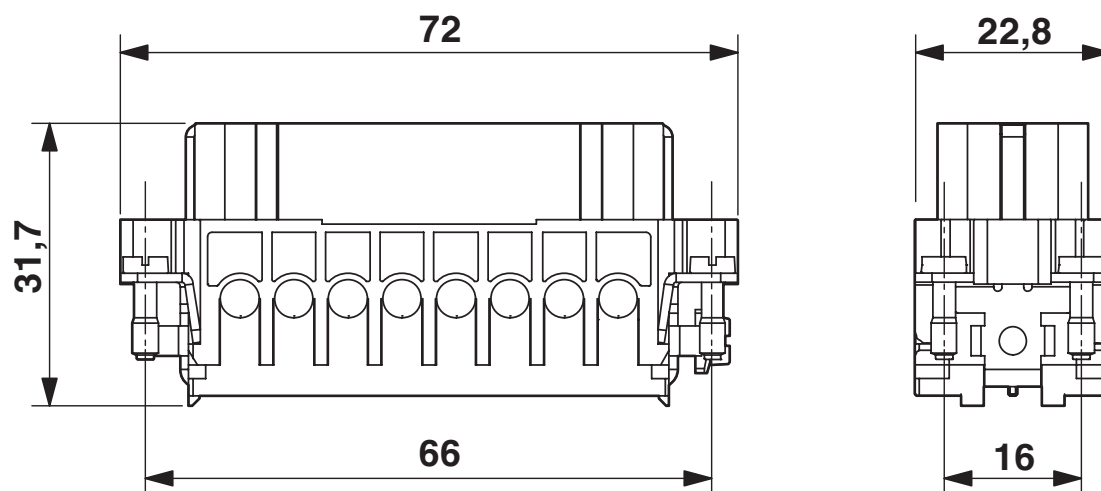
Connector pin assignment, connection side

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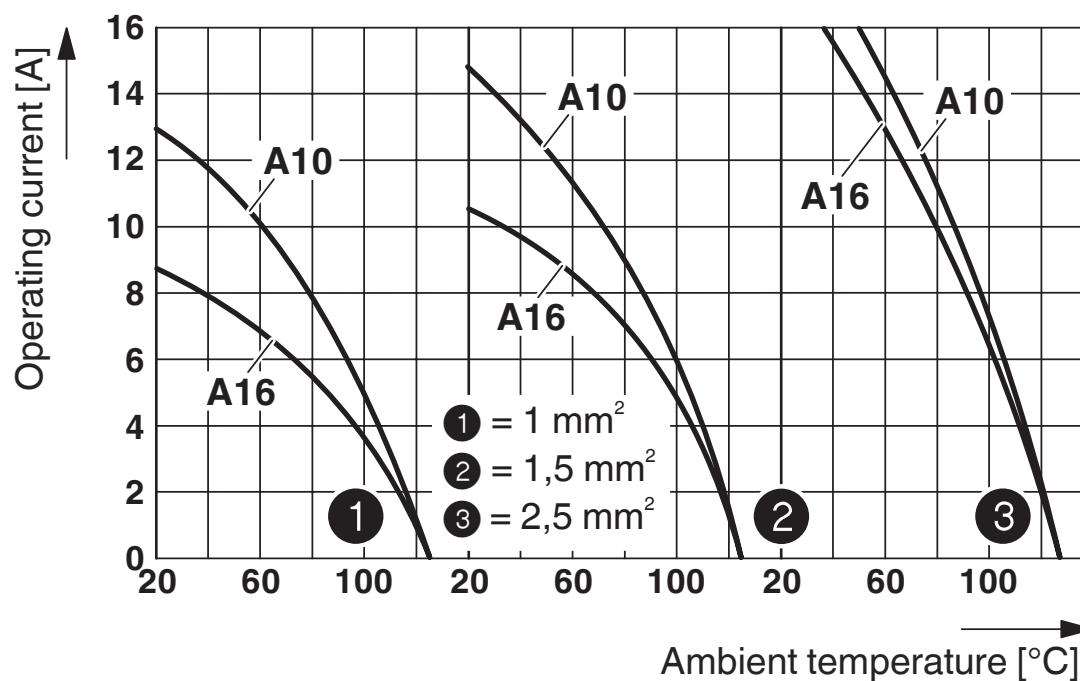
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Dimensional drawing



Female insert

Diagram



Derating diagram: HC-A...C series

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## Classifications

### ECLASS

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

### ETIM

|          |          |
|----------|----------|
| ETIM 8.0 | EC000438 |
|----------|----------|

### UNSPSC

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

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## Environmental product compliance

|            |                                                         |
|------------|---------------------------------------------------------|
| China RoHS | Environmentally friendly use period: unlimited = EFUP-e |
|            | No hazardous substances above threshold values          |

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PHOENIX CONTACT AS  
Strømsveien 344  
N-1081 Oslo  
+47 22 07 68 00  
[norge@phoenixcontact.com](mailto:norge@phoenixcontact.com)