

## Contact insert - HC-A 16-EBUC-32 - 1677050

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

RoHS

### Key Commercial Data

|              |                                                                                                         |
|--------------|---------------------------------------------------------------------------------------------------------|
| Packing unit | 10 pc                                                                                                   |
| GTIN         | <br>4 017918 129675 |
| GTIN         | 4017918129675                                                                                           |

### Technical data

#### General

|                                         |                                                                                                      |
|-----------------------------------------|------------------------------------------------------------------------------------------------------|
| Note                                    | For HC-D25 / HC-D50 housing, crimp contact CK2,5-ED (crimp contacts not included in scope of supply) |
|                                         | Connectors may be operated only when there is no load/voltage.                                       |
| Connection method                       | Crimp connection                                                                                     |
| Torque                                  | 0.7 Nm ... 1 Nm (PE connection)                                                                      |
|                                         | 0.5 Nm ... 0.8 Nm (Mounting screws for mounting in the HEAVYCON housing)                             |
| Degree of pollution                     | 3                                                                                                    |
| Overvoltage category                    | III                                                                                                  |
| Number of positions                     | 16+PE                                                                                                |
| Insertion/withdrawal cycles             | ≥ 500                                                                                                |
| Size                                    | D25                                                                                                  |
|                                         | D50                                                                                                  |
| Contact numbering                       | 17 - 32                                                                                              |
| Conductor cross section                 | 0.14 mm² ... 4 mm² (applies to stranded conductors)                                                  |
| Connection cross section AWG            | 20 ... 12                                                                                            |
| Stripping length of the individual wire | 8 mm                                                                                                 |

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## Technical data

### General

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

### Ambient conditions

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

### Material data

|                          |                       |
|--------------------------|-----------------------|
| Contact material         | Copper alloy          |
| Contact surface material | Ag (alternatively Au) |
| Contact carrier material | PA                    |

### Electrical characteristics

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

### Standards and Regulations

|                                        |                            |
|----------------------------------------|----------------------------|
| Connection in acc. with standard       | CSA                        |
| 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                  |
| Flammability rating according to UL 94 | V0                         |

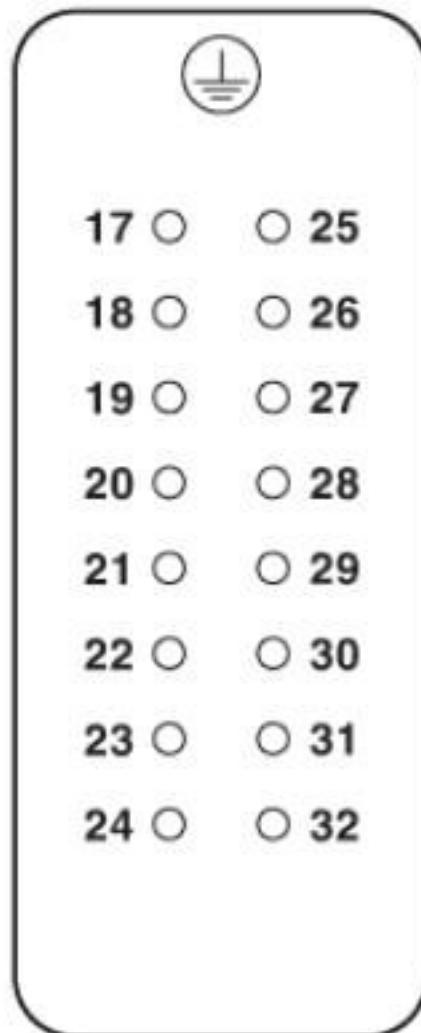
### Environmental Product Compliance

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

## Drawings

## Contact insert - HC-A 16-EBUC-32 - 1677050

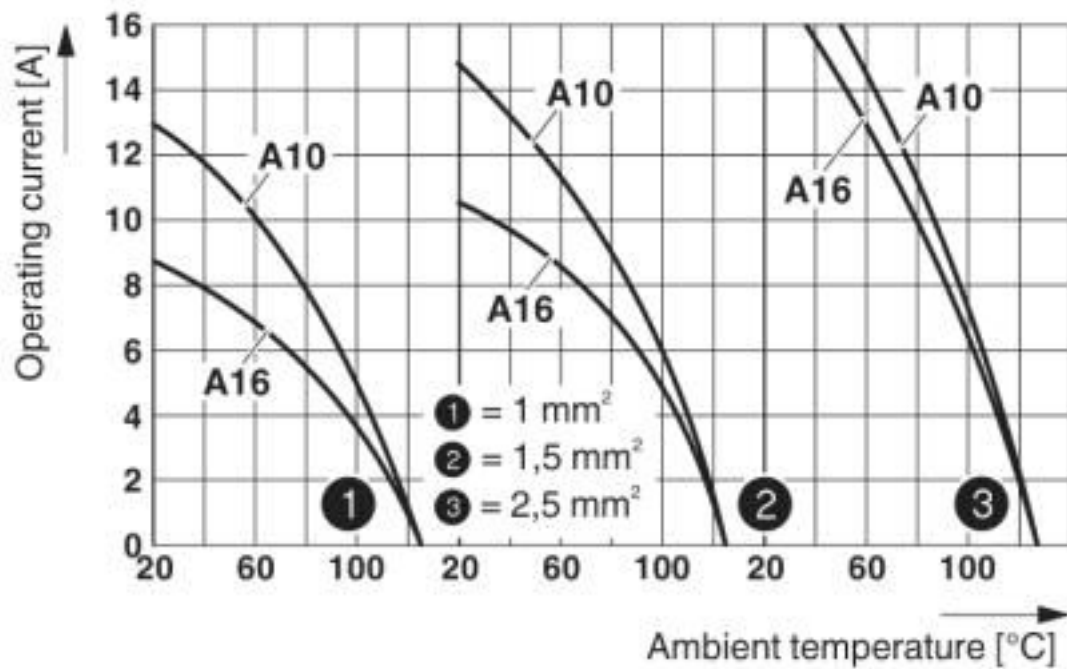
Schematic diagram



Connector pin assignment, connection side

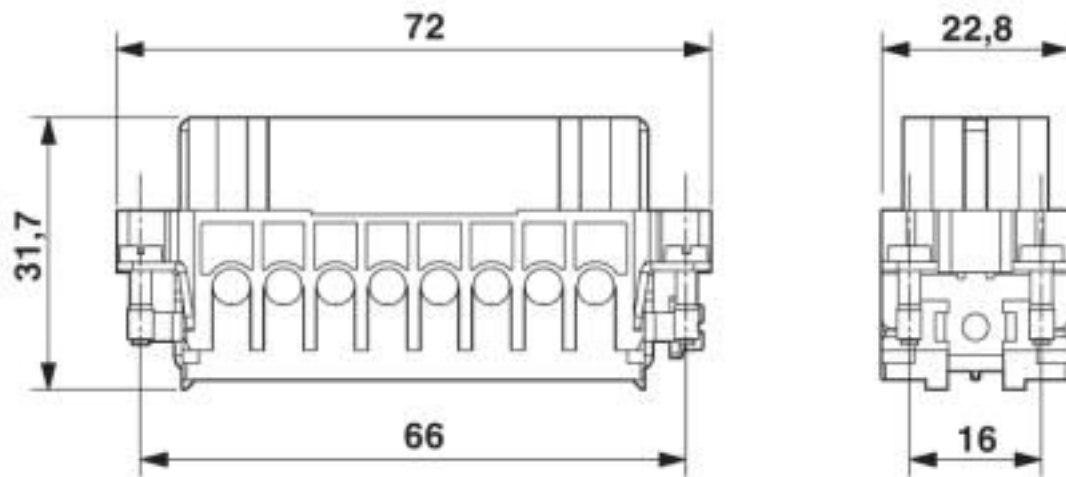
## Contact insert - HC-A 16-EBUC-32 - 1677050

Diagram



Derating diagram: HC-A...C series

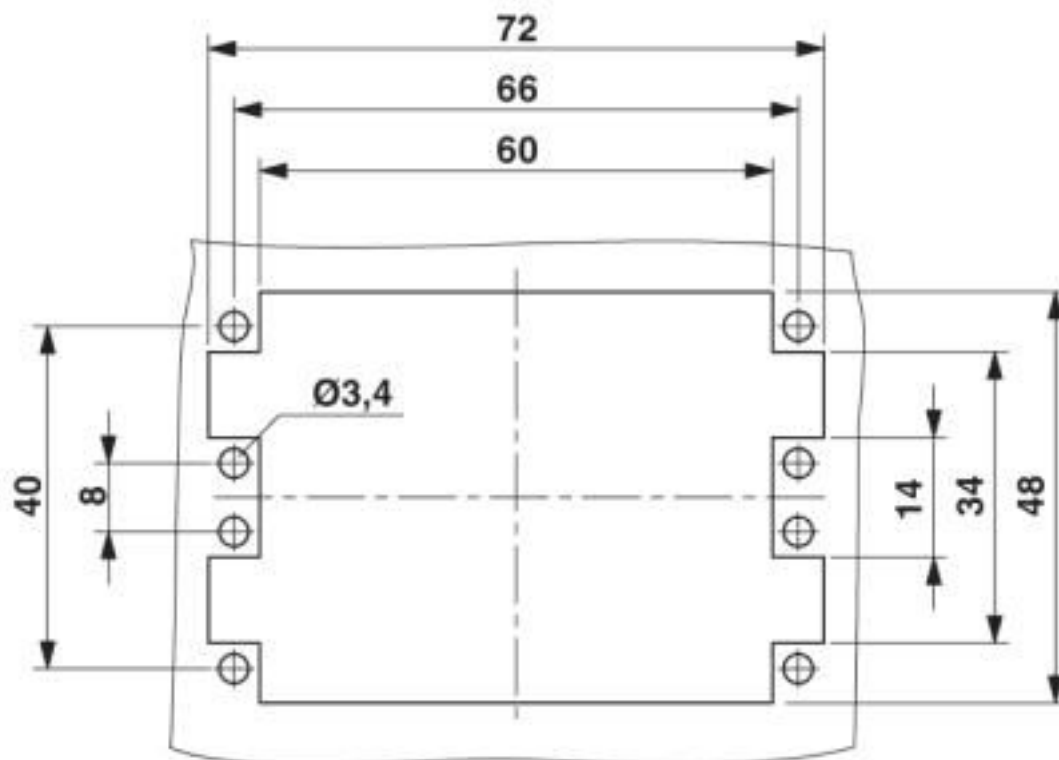
Dimensional drawing



Female insert

## Contact insert - HC-A 16-EBUC-32 - 1677050

Dimensional drawing



Mounting cutout when used without housing

### Classifications

eCl@ss

|               |          |
|---------------|----------|
| eCl@ss 10.0.1 | 27440205 |
| eCl@ss 4.0    | 27140800 |
| eCl@ss 4.1    | 27140800 |
| eCl@ss 5.0    | 27143400 |
| eCl@ss 5.1    | 27261200 |
| eCl@ss 6.0    | 27261200 |
| eCl@ss 7.0    | 27440205 |
| eCl@ss 8.0    | 27440205 |
| eCl@ss 9.0    | 27440205 |

ETIM

|          |          |
|----------|----------|
| ETIM 2.0 | EC000438 |
| ETIM 3.0 | EC000438 |
| ETIM 4.0 | EC000438 |
| ETIM 5.0 | EC000438 |
| ETIM 6.0 | EC000438 |
| ETIM 7.0 | EC000438 |

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### Classifications

#### UNSPSC

|               |          |
|---------------|----------|
| UNSPSC 6.01   | 31251501 |
| UNSPSC 7.0901 | 39121522 |
| UNSPSC 11     | 39121522 |
| UNSPSC 12.01  | 39121522 |
| UNSPSC 13.2   | 39121522 |
| UNSPSC 18.0   | 39121522 |
| UNSPSC 19.0   | 39121522 |
| UNSPSC 20.0   | 39121522 |
| UNSPSC 21.0   | 39121522 |

### Approvals

#### Approvals

#### Approvals

CSA / UL Recognized / cUL Recognized / EAC / EAC / cULus Recognized

#### Ex Approvals

#### Approval details

|                    |                                                                                     |                                                                                                                                         |        |
|--------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|--------|
| CSA                |  | <a href="http://www.csagroup.org/services-industries/product-listing/">http://www.csagroup.org/services-industries/product-listing/</a> | 212533 |
| Nominal voltage UN |                                                                                     | 600 V                                                                                                                                   |        |
| Nominal current IN |                                                                                     | 10 A                                                                                                                                    |        |
| mm²/AWG/kcmil      |                                                                                     | 20-13                                                                                                                                   |        |

|                    |                                                                                     |                                                                                                                                                       |               |
|--------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| UL Recognized      |  | <a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a> | FILE E 118976 |
| Nominal voltage UN |                                                                                     | 600 V                                                                                                                                                 |               |

|                    |                                                                                     |                                                                                                                                                       |               |
|--------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| cUL Recognized     |  | <a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a> | FILE E 118976 |
| Nominal voltage UN |                                                                                     | 600 V                                                                                                                                                 |               |

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### Approvals

|     |                                                                                   |                          |
|-----|-----------------------------------------------------------------------------------|--------------------------|
| EAC |  | RU C-<br>DE.AI30.B.01102 |
|-----|-----------------------------------------------------------------------------------|--------------------------|

|     |                                                                                   |                          |
|-----|-----------------------------------------------------------------------------------|--------------------------|
| EAC |  | RU C-<br>DE.BL08.B.00511 |
|-----|-----------------------------------------------------------------------------------|--------------------------|

|                  |                                                                                   |  |
|------------------|-----------------------------------------------------------------------------------|--|
| cULus Recognized |  |  |
|------------------|-----------------------------------------------------------------------------------|--|

### Accessories

#### Accessories

#### Coding element

Coding element - HC-CST - 1676857



Coding peg for coding up to 16 connectors

Coding element - HC-CBU - 1676860



Coding socket for coding up to 16 connectors

Coding bolt - HC-CB - 1772722



Coding pin, prevents mismatching of up to six connectors with an identical number of positions

#### Crimp contact

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### Accessories

Crimp contact - CK2,5-ED-0,50BU AG - 1663640



Turned 2.5 crimp contact, individual female contact, core diameter 0.5 mm<sup>2</sup>, silver-plated

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Crimp contact - CK2,5-ED-0,75BU AG - 1663653



Turned 2.5 crimp contact, individual female contact, core diameter 0.75 mm<sup>2</sup>, silver-plated

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Crimp contact - CK2,5-ED-1,00BU AG - 1663666



Turned 2.5 crimp contact, individual female contact, core diameter 0.75 to 1.00 mm<sup>2</sup>, silver-plated

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Crimp contact - CK2,5-ED-1,50BU AG - 1663679



Turned 2.5 crimp contact, individual female contact, core diameter 1.5 mm<sup>2</sup>, silver-plated

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Crimp contact - CK2,5-ED-2,50BU AG - 1663682



Turned 2.5 crimp contact, individual female contact, core diameter 2.5 mm<sup>2</sup>, silver-plated

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## Contact insert - HC-A 16-EBUC-32 - 1677050

### Accessories

Crimp contact - CK2,5-ED-3,00BU AG - 1663695



Turned 2.5 crimp contact, individual female contact, core diameter 3.00 mm<sup>2</sup>, silver-plated

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Crimp contact - CK2,5-ED-4,00BU AG - 1663705



Turned 2.5 crimp contact, individual female contact, core diameter 4.00 mm<sup>2</sup>, silver-plated

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Crimp contact - CK2,5-ED-0,50BU AU - 1674859



Turned 2.5 crimp contact, individual female contact, core diameter 0.5 mm<sup>2</sup>, gold-plated

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Crimp contact - CK2,5-ED-1,00BU AU - 1674833



Turned 2.5 crimp contact, individual female contact, core diameter 0.75 to 1.0 mm<sup>2</sup>, gold-plated

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Crimp contact - CK2,5-ED-1,50BU AU - 1674820



Turned 2.5 crimp contact, individual female contact, core diameter 1.5 mm<sup>2</sup>, gold-plated

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## Contact insert - HC-A 16-EBUC-32 - 1677050

### Accessories

Crimp contact - CK2,5-ED-2,50BU AU - 1674862



Turned 2.5 crimp contact, individual female contact, core diameter 2.5 mm<sup>2</sup>, gold-plated

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Crimp contact - CK2,5-ED-4,00BU AU - 1674846



Turned 2.5 crimp contact, individual female contact, core diameter 4.00 mm<sup>2</sup>, gold-plated

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### Mounting material

Screw - HC-A-PES - 1584868



PE screw for contact inserts of A series

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Crimp contact - CK2,5-ED-0,37BU AU - 1585647



Crimp contact, connection method: Crimp connection, connection cross section: AWG 22- 26

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### Additional products

Contact insert - HC-A 16-ESTC-32 - 1677076



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

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