

## Contact insert - HC-A16-I-UT-M 17-32 - 1585333

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HEAVYCON pin insert, A16 series, 16-pos., screw connection, numbering from 17 ... 32

### Your advantages

- ☒ can be coded with plastic coding profile (order number 1410916)
- ☒ for a test pin 2 mm in diameter



### Key Commercial Data

|              |                                                                                                         |
|--------------|---------------------------------------------------------------------------------------------------------|
| Packing unit | 1 pc                                                                                                    |
| GTIN         | <br>4 046356 285063 |
| GTIN         | 4046356285063                                                                                           |

### Technical data

#### General

|                             |                                                                          |
|-----------------------------|--------------------------------------------------------------------------|
| Note                        | for flexible conductors with or without ferrules                         |
|                             | Connectors may be operated only when there is no load/voltage.           |
|                             | for HC-D25 / HC-D 50 housing                                             |
| Connection method           | Screw connection                                                         |
| Tightening torque           | 0.5 Nm                                                                   |
| Torque                      | 0.7 Nm ... 1 Nm (PE connection)                                          |
|                             | 0.5 Nm ... 0.8 Nm (Mounting screws for mounting in the HEAVYCON housing) |
| Screwdriver blade           | 0.5 x 3.5 mm                                                             |
| Degree of pollution         | 3                                                                        |
| Overvoltage category        | III                                                                      |
| Number of positions         | 16+PE                                                                    |
| Insertion/withdrawal cycles | ≥ 500                                                                    |
| Size                        | D25                                                                      |

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## Technical data

### General

|                                         |                                                                                           |
|-----------------------------------------|-------------------------------------------------------------------------------------------|
|                                         | D50                                                                                       |
| Contact numbering                       | 17 - 32                                                                                   |
| Conductor cross section                 | 0.5 mm² ... 2.5 mm²                                                                       |
| Connection cross section AWG            | 20 ... 14                                                                                 |
| Stripping length of the individual wire | 7 mm                                                                                      |
| Assembly instructions                   | To ensure correct use, installation in housing with IP54 protection or better is required |
| Connection                              | for plastic coding profiles: 4 pcs.                                                       |

### Ambient conditions

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

### Material data

|                          |                                                                                                                         |
|--------------------------|-------------------------------------------------------------------------------------------------------------------------|
| Contact material         | Copper alloy                                                                                                            |
| Contact surface material | Ag                                                                                                                      |
| 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) |

### Electrical characteristics

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

### Standards and Regulations

|                                        |                        |
|----------------------------------------|------------------------|
| Flammability rating according to UL 94 | V0                     |
| Standards/regulations                  | acc. to DIN EN 45545-2 |

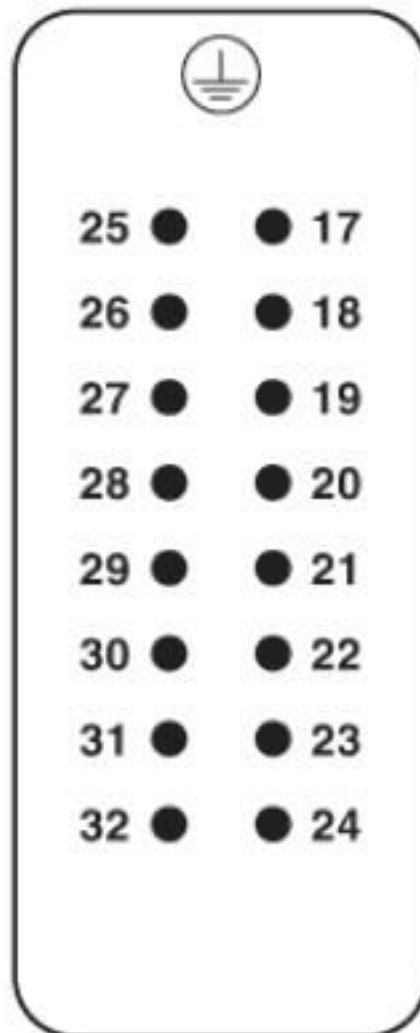
### Environmental Product Compliance

|            |                                                                                                     |
|------------|-----------------------------------------------------------------------------------------------------|
| REACH SVHC | Lead 7439-92-1                                                                                      |
| China RoHS | Environmentally Friendly Use Period = 50 years                                                      |
|            | For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration" |

## Drawings

## Contact insert - HC-A16-I-UT-M 17-32 - 1585333

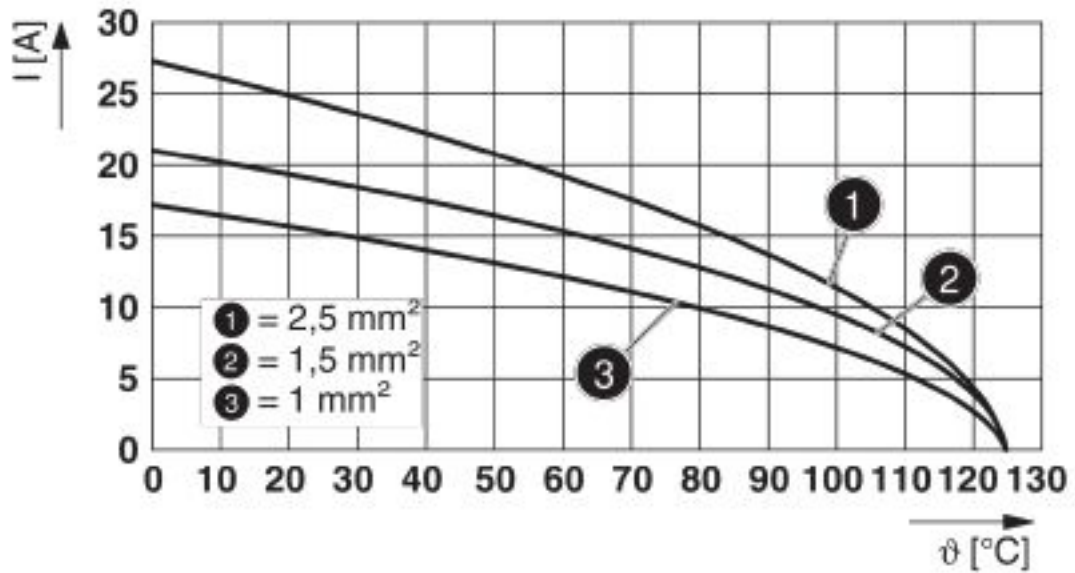
Schematic diagram



Connector pin assignment, connection side

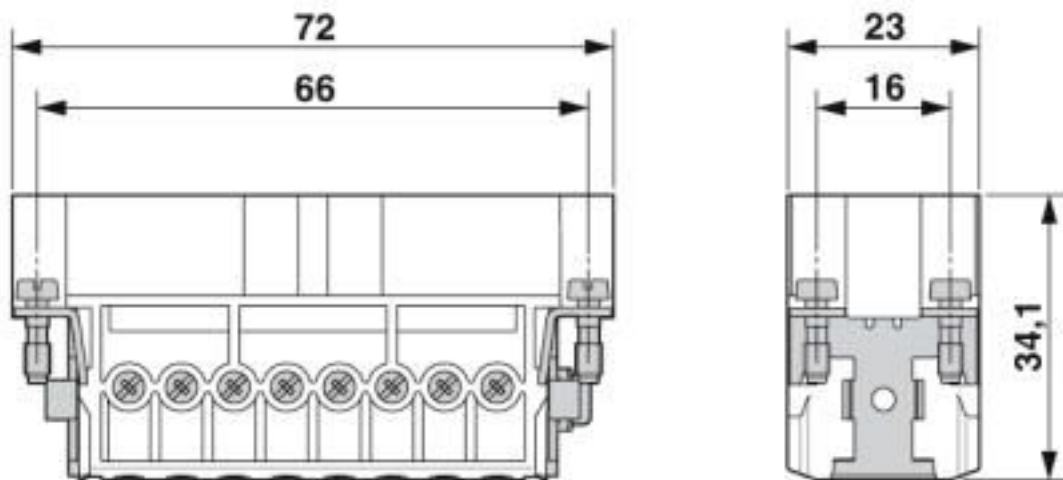
## Contact insert - HC-A16-I-UT-M 17-32 - 1585333

Diagram



Derating diagram

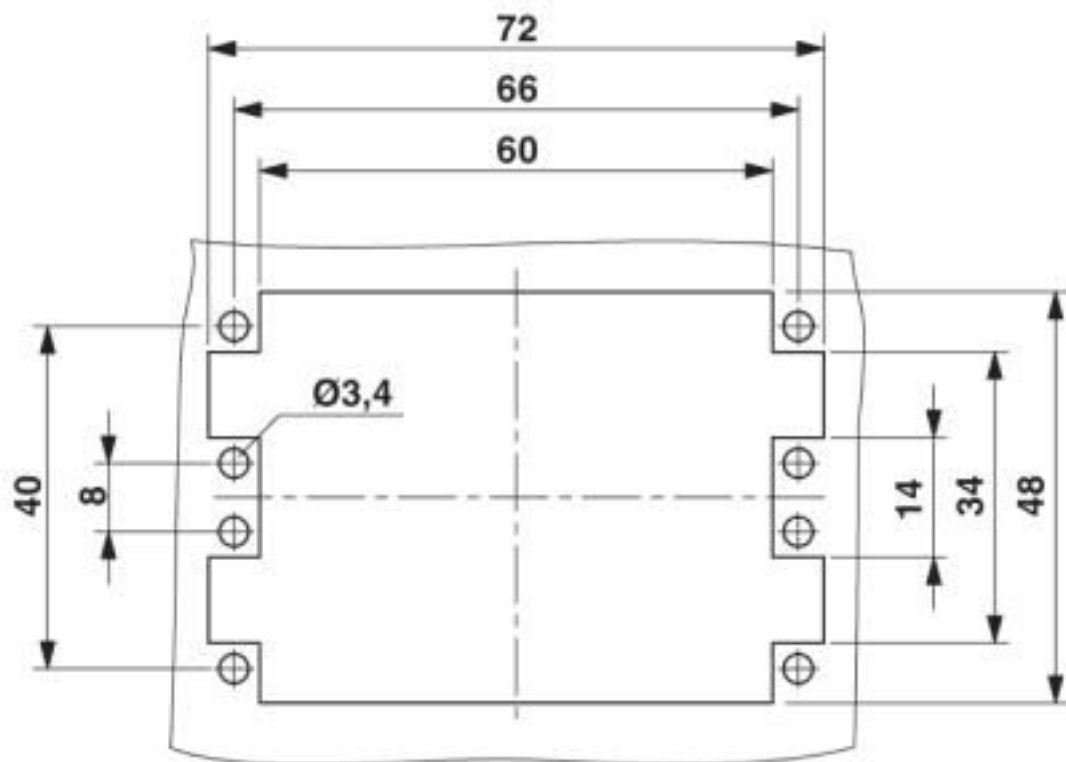
Dimensional drawing



Male insert

## Contact insert - HC-A16-I-UT-M 17-32 - 1585333

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 4.0 | EC000438 |
| ETIM 5.0 | EC000438 |
| ETIM 6.0 | EC000438 |
| ETIM 7.0 | EC000438 |

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## Classifications

### UNSPSC

|               |          |
|---------------|----------|
| UNSPSC 6.01   | 30211923 |
| 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 / EAC / EAC / CSA / EAC / EAC / UL Recognized / UL Recognized / DNV GL / DNV GL

#### Ex Approvals

### Approval details

|     |                                                                                     |                                                                                                                                         |       |
|-----|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|-------|
| CSA |  | <a href="http://www.csagroup.org/services-industries/product-listing/">http://www.csagroup.org/services-industries/product-listing/</a> | 13631 |
|-----|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|-------|

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

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

|                    |                                                                                     |                                                                                                                                         |       |
|--------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|-------|
| CSA                |  | <a href="http://www.csagroup.org/services-industries/product-listing/">http://www.csagroup.org/services-industries/product-listing/</a> | 13631 |
| Nominal voltage UN | 600 V                                                                               |                                                                                                                                         |       |
| Nominal current IN | 15 A                                                                                |                                                                                                                                         |       |
| mm²/AWG/kcmil      | 14                                                                                  |                                                                                                                                         |       |

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### Approvals

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

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

|               |                                                                                   |                                                                                                                                                       |         |
|---------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| 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> | E118976 |
|---------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|---------|

|               |                                                                                   |                                                                                                                                                       |         |
|---------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| 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> | E118976 |
|---------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|---------|

|                    |       |
|--------------------|-------|
| Nominal voltage UN | 600 V |
| Nominal current IN | 19 A  |
| mm²/AWG/kcmil      | 14    |

|        |                                                                                     |                                                                                   |            |
|--------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------|
| DNV GL |  | <a href="https://approvalfinder.dnvgl.com/">https://approvalfinder.dnvgl.com/</a> | TAE000037S |
|--------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------|

|        |                                                                                     |                                                                                   |            |
|--------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------|
| DNV GL |  | <a href="https://approvalfinder.dnvgl.com/">https://approvalfinder.dnvgl.com/</a> | TAE000037S |
|--------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------|

### Accessories

#### Accessories

#### Coding element

Coding element - HC-CST - 1676857



Coding peg for coding up to 16 connectors

## Contact insert - HC-A16-I-UT-M 17-32 - 1585333

### Accessories

Coding element - HC-CBU - 1676860



Coding socket for coding up to 16 connectors

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Coding bolt - HC-CB - 1772722



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

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Coding profile - CP-HC-S - 1410916



Coding profile, 4 elements per star, for insertion in a coding keyway, for contact inserts HC-BB... / HC-A10-I-UT... / HC-A16-I-UT...

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### Mounting material

Screw - HC-A-PES - 1584868



PE screw for contact inserts of A series

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### Additional products

Contact insert - HC-A16-I-UT-F 17-32 - 1585346



HEAVYCON socket insert, A16 series, 16-pos., screw connection, numbering from 17 ... 32



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PHOENIX CONTACT GmbH & Co. KG  
Flachsmarktstr. 8  
32825 Blomberg  
Germany  
Tel. +49 5235 300  
Fax +49 5235 3 41200  
<http://www.phoenixcontact.com>

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