

# HC-A16-I-CT-M - Contact insert

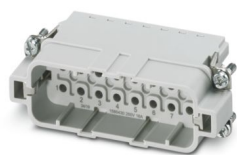
1585430

<https://www.phoenixcontact.com/us/products/1585430>



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Contact insert, number of positions: 16+PE, size: D25, number of connections per position: 1, Pin, Crimp connection, 250 V, 16 A, 0.5 mm<sup>2</sup> ... 4 mm<sup>2</sup>



## Your advantages

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

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1585430       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Sales key                            | BF61          |
| Product key                          | BF7ABB        |
| GTIN                                 | 4046356285162 |
| Weight per piece (including packing) | 32.92 g       |
| Weight per piece (excluding packing) | 22.22 g       |
| Customs tariff number                | 85369010      |
| Country of origin                    | CN            |

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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 note | To ensure correct use, installation in housing with IP54 protection or better is required<br>for plastic coding profiles: 4 pcs. |
|---------------|----------------------------------------------------------------------------------------------------------------------------------|

### Product properties

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

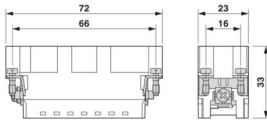
### Data management status

|                  |    |
|------------------|----|
| Article revision | 02 |
|------------------|----|

### Insulation characteristics

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

### Dimensions

|                                 |                                                                                      |
|---------------------------------|--------------------------------------------------------------------------------------|
| Dimensional drawing             |  |
| Width                           | 23 mm                                                                                |
| Height                          | 33 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

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## 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 <sup>2</sup> ... 4 mm <sup>2</sup> (applies to stranded conductors)                                  |
| Connection cross section AWG            | 20 ... 12                                                                                                   |
| Tightening torque                       | 0.7 Nm ... 1 Nm (PE connection)<br>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  |

## Mechanical properties

### Mechanical data

|                             |       |
|-----------------------------|-------|
| Insertion/withdrawal cycles | ≥ 500 |
|-----------------------------|-------|

## Material specifications

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

## Environmental and real-life conditions

### Ambient conditions

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

## Standards and regulations

### Testing

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

# HC-A16-I-CT-M - Contact insert

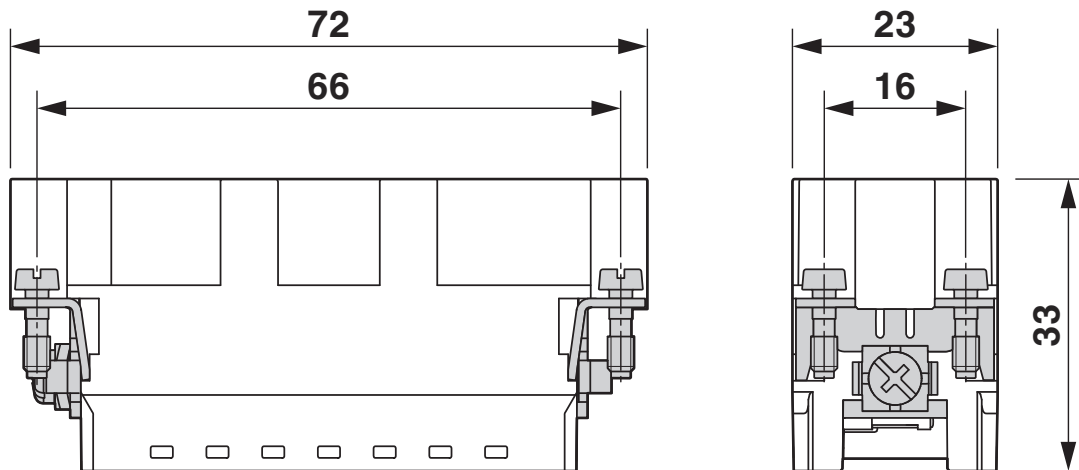
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## Drawings

Dimensional drawing



Male insert

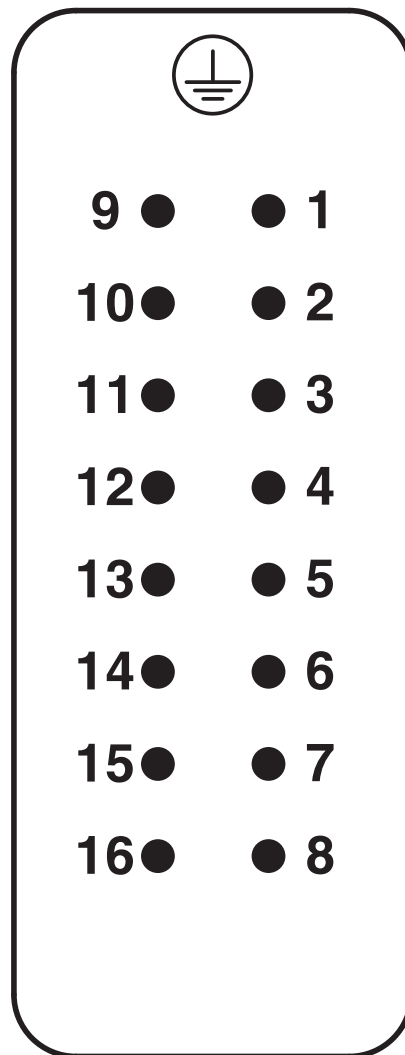
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Schematic diagram



Connector pin assignment, connection side

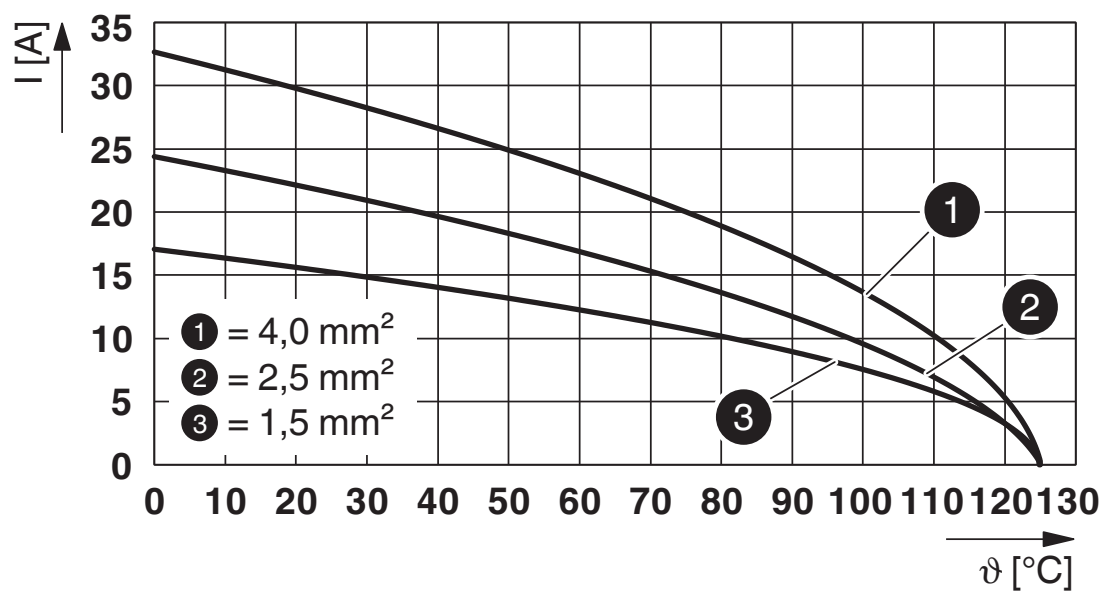
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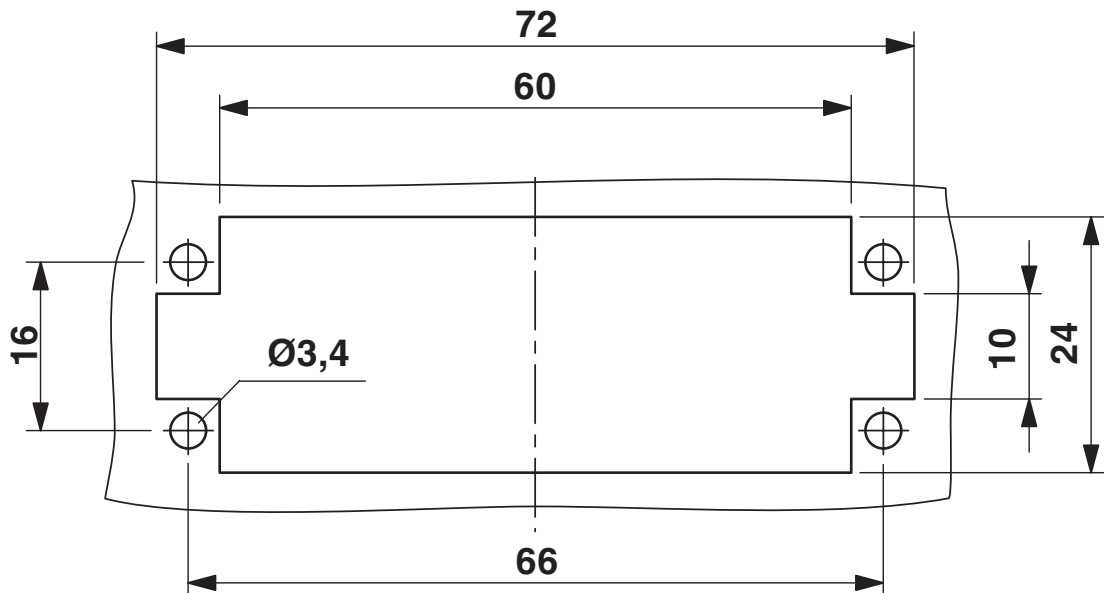
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Diagram



Derating diagram

Dimensional drawing



Mounting cutout

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1585430>

DNV

Approval ID: TAE000037S

|  |                                    |                                |                   |                               |
|--|------------------------------------|--------------------------------|-------------------|-------------------------------|
|  | CSA<br>Approval ID: 013631_6233_01 |                                |                   |                               |
|  | Nominal voltage U <sub>N</sub>     | Nominal current I <sub>N</sub> | Cross section AWG | Cross section mm <sup>2</sup> |
|  | 250 V                              | 16 A                           | - 12              | -                             |

EAC

Approval ID: RU C-DE.BL08.B.00511

|  |                                          |                                |                   |                               |
|--|------------------------------------------|--------------------------------|-------------------|-------------------------------|
|  | cULus Recognized<br>Approval ID: E468743 |                                |                   |                               |
|  | Nominal voltage U <sub>N</sub>           | Nominal current I <sub>N</sub> | Cross section AWG | Cross section mm <sup>2</sup> |
|  | 250 V                                    | 16 A                           | - 12              | -                             |

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-11.0 | 27440205 |
| ECLASS-12.0 | 27440205 |
| ECLASS-13.0 | 27440205 |

### ETIM

|          |          |
|----------|----------|
| ETIM 8.0 | 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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## Accessories

### CP-HC-S - Coding profile

1410916

<https://www.phoenixcontact.com/us/products/1410916>

Coding profile, for contact inserts HC-BB... / HC-A10... / HC-A16...



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### HC-CB - Coding bolt

1772722

<https://www.phoenixcontact.com/us/products/1772722>

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



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## HC-CST - Coding element

1676857

<https://www.phoenixcontact.com/us/products/1676857>



Coding peg for coding up to 16 connectors

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## HC-CBU - Coding element

1676860

<https://www.phoenixcontact.com/us/products/1676860>



Coding socket for coding up to 16 connectors

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<https://www.phoenixcontact.com/us/products/1585430>



## HC-A-PES - Screw

1584868

<https://www.phoenixcontact.com/us/products/1584868>

PE screw for contact inserts of A series



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## CK2,5-ED-0,50ST AG - Crimp contact

1663572

<https://www.phoenixcontact.com/us/products/1663572>

Crimp contact, contact diameter: 2.5 mm, turned, Pin, contact material: Copper alloy, contact surface: silver-plated, connection cross section: 0.5 mm<sup>2</sup> ... 0.5 mm<sup>2</sup>, AWG 20



## HC-A16-I-CT-M - Contact insert

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<https://www.phoenixcontact.com/us/products/1585430>



### CK2,5-ED-0,75ST AG - Crimp contact

1663585

<https://www.phoenixcontact.com/us/products/1663585>



Crimp contact, contact diameter: 2.5 mm, turned, Pin, contact material: Copper alloy, contact surface: silver-plated, connection cross section: 0.75 mm<sup>2</sup> ... 0.75 mm<sup>2</sup>, AWG 18

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### CK2,5-ED-1,00ST AG - Crimp contact

1663598

<https://www.phoenixcontact.com/us/products/1663598>



Crimp contact, contact diameter: 2.5 mm, turned, Pin, contact material: Copper alloy, contact surface: silver-plated, connection cross section: 1 mm<sup>2</sup> ... 1 mm<sup>2</sup>, AWG 18

# HC-A16-I-CT-M - Contact insert

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<https://www.phoenixcontact.com/us/products/1585430>



## CK2,5-ED-1,50ST AG - Crimp contact

1663608

<https://www.phoenixcontact.com/us/products/1663608>



Crimp contact, contact diameter: 2.5 mm, turned, Pin, contact material: Copper alloy, contact surface: silver-plated, connection cross section: 1.5 mm<sup>2</sup> ... 1.5 mm<sup>2</sup>, AWG 16

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## CK2,5-ED-2,50ST AG - Crimp contact

1663611

<https://www.phoenixcontact.com/us/products/1663611>



Crimp contact, contact diameter: 2.5 mm, turned, Pin, contact material: Copper alloy, contact surface: silver-plated, connection cross section: 2.5 mm<sup>2</sup> ... 2.5 mm<sup>2</sup>, AWG 14

# HC-A16-I-CT-M - Contact insert

1585430

<https://www.phoenixcontact.com/us/products/1585430>



## CK2,5-ED-3,00ST AG - Crimp contact

1663624

<https://www.phoenixcontact.com/us/products/1663624>



Crimp contact, contact diameter: 2.5 mm, turned, Pin, contact material: Copper alloy, contact surface: silver-plated, connection cross section: 3 mm<sup>2</sup> ... 3 mm<sup>2</sup>, AWG 12

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## CK2,5-ED-4,00ST AG - Crimp contact

1663637

<https://www.phoenixcontact.com/us/products/1663637>



Crimp contact, contact diameter: 2.5 mm, turned, Pin, contact material: Copper alloy, contact surface: silver-plated, connection cross section: 4 mm<sup>2</sup> ... 4 mm<sup>2</sup>, AWG 12

# HC-A16-I-CT-M - Contact insert

1585430

<https://www.phoenixcontact.com/us/products/1585430>



## CK2,5-ED-0,50M AG - Crimp contact

1273667

<https://www.phoenixcontact.com/us/products/1273667>



Crimp contact, contact diameter: 2.5 mm, turned, Pin, contact material: Copper alloy, lead-free, contact surface: silver-plated, connection cross section: 0.5 mm<sup>2</sup> ... 0.5 mm<sup>2</sup>, AWG 20

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## CK2,5-ED-0,75M AG - Crimp contact

1273666

<https://www.phoenixcontact.com/us/products/1273666>



Crimp contact, contact diameter: 2.5 mm, turned, Pin, contact material: Copper alloy, lead-free, contact surface: silver-plated, connection cross section: 0.75 mm<sup>2</sup> ... 0.75 mm<sup>2</sup>, AWG 18

# HC-A16-I-CT-M - Contact insert

1585430

<https://www.phoenixcontact.com/us/products/1585430>



## CK2,5-ED-1,00M AG - Crimp contact

1273665

<https://www.phoenixcontact.com/us/products/1273665>



Crimp contact, contact diameter: 2.5 mm, turned, Pin, contact material: Copper alloy, lead-free, contact surface: silver-plated, connection cross section: 1 mm<sup>2</sup> ... 1 mm<sup>2</sup>, AWG 18

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## CK2,5-ED-1,50M AG - Crimp contact

1273664

<https://www.phoenixcontact.com/us/products/1273664>



Crimp contact, contact diameter: 2.5 mm, turned, Pin, contact material: Copper alloy, lead-free, contact surface: silver-plated, connection cross section: 1.5 mm<sup>2</sup> ... 1.5 mm<sup>2</sup>, AWG 16

# HC-A16-I-CT-M - Contact insert

1585430

<https://www.phoenixcontact.com/us/products/1585430>



## CK2,5-ED-2,50M AG - Crimp contact

1273663

<https://www.phoenixcontact.com/us/products/1273663>



Crimp contact, contact diameter: 2.5 mm, turned, Pin, contact material: Copper alloy, lead-free, contact surface: silver-plated, connection cross section: 2.5 mm<sup>2</sup> ... 2.5 mm<sup>2</sup>, AWG 14

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## CK2,5-ED-3,00M AG - Crimp contact

1273648

<https://www.phoenixcontact.com/us/products/1273648>



Crimp contact, contact diameter: 2.5 mm, turned, Pin, contact material: Copper alloy, lead-free, contact surface: silver-plated, connection cross section: 3 mm<sup>2</sup> ... 3 mm<sup>2</sup>, AWG 12

# HC-A16-I-CT-M - Contact insert

1585430

<https://www.phoenixcontact.com/us/products/1585430>



## CK2,5-ED-4,00M AG - Crimp contact

1273620

<https://www.phoenixcontact.com/us/products/1273620>



Crimp contact, contact diameter: 2.5 mm, turned, Pin, contact material: Copper alloy, lead-free, contact surface: silver-plated, connection cross section: 4 mm<sup>2</sup> ... 4 mm<sup>2</sup>, AWG 12

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## CK2,5-ED-0,37ST AU - Crimp contact

1585663

<https://www.phoenixcontact.com/us/products/1585663>



Crimp contact, contact diameter: 2.5 mm, turned, Pin, contact material: Copper alloy, contact surface: gold-plated, connection cross section: 0.14 mm<sup>2</sup> ... 0.37 mm<sup>2</sup>, AWG 22 ... 26

# HC-A16-I-CT-M - Contact insert

1585430

<https://www.phoenixcontact.com/us/products/1585430>



## CK2,5-ED-0,50ST AU - Crimp contact

1674804

<https://www.phoenixcontact.com/us/products/1674804>



Crimp contact, contact diameter: 2.5 mm, turned, Pin, contact material: Copper alloy, contact surface: gold-plated, connection cross section: 0.5 mm<sup>2</sup> ... 0.5 mm<sup>2</sup>, AWG 20

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## CK2,5-ED-1,00ST AU - Crimp contact

1674781

<https://www.phoenixcontact.com/us/products/1674781>



Crimp contact, contact diameter: 2.5 mm, turned, Pin, contact material: Copper alloy, contact surface: gold-plated, connection cross section: 1 mm<sup>2</sup> ... 1 mm<sup>2</sup>, AWG 18

## HC-A16-I-CT-M - Contact insert

1585430

<https://www.phoenixcontact.com/us/products/1585430>



### CK2,5-ED-1,50ST AU - Crimp contact

1674778

<https://www.phoenixcontact.com/us/products/1674778>



Crimp contact, contact diameter: 2.5 mm, turned, Pin, contact material: Copper alloy, contact surface: gold-plated, connection cross section: 1.5 mm<sup>2</sup> ... 1.5 mm<sup>2</sup>, AWG 16

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### CK2,5-ED-2,50ST AU - Crimp contact

1674817

<https://www.phoenixcontact.com/us/products/1674817>



Crimp contact, contact diameter: 2.5 mm, turned, Pin, contact material: Copper alloy, contact surface: gold-plated, connection cross section: 2.5 mm<sup>2</sup> ... 2.5 mm<sup>2</sup>, AWG 14

# HC-A16-I-CT-M - Contact insert

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<https://www.phoenixcontact.com/us/products/1585430>



## CK2,5-ED-4,00ST AU - Crimp contact

1674794

<https://www.phoenixcontact.com/us/products/1674794>



Crimp contact, contact diameter: 2.5 mm, turned, Pin, contact material: Copper alloy, contact surface: gold-plated, connection cross section: 4 mm<sup>2</sup> ... 4 mm<sup>2</sup>, AWG 12

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## CK2,5-ED-0,37M AU - Crimp contact

1273603

<https://www.phoenixcontact.com/us/products/1273603>



Crimp contact, contact diameter: 2.5 mm, turned, Pin, contact material: Copper alloy, lead-free, contact surface: gold-plated, connection cross section: 0.14 mm<sup>2</sup> ... 0.37 mm<sup>2</sup>, AWG 22 ... 26

# HC-A16-I-CT-M - Contact insert

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## CK2,5-ED-0,50M AU - Crimp contact

1273601

<https://www.phoenixcontact.com/us/products/1273601>



Crimp contact, contact diameter: 2.5 mm, turned, Pin, contact material: Copper alloy, lead-free, contact surface: gold-plated, connection cross section: 0.5 mm<sup>2</sup> ... 0.5 mm<sup>2</sup>, AWG 20

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## CK2,5-ED-1,00M AU - Crimp contact

1273582

<https://www.phoenixcontact.com/us/products/1273582>



Crimp contact, contact diameter: 2.5 mm, turned, Pin, contact material: Copper alloy, lead-free, contact surface: gold-plated, connection cross section: 1 mm<sup>2</sup> ... 1 mm<sup>2</sup>, AWG 18

# HC-A16-I-CT-M - Contact insert

1585430

<https://www.phoenixcontact.com/us/products/1585430>



## CK2,5-ED-1,50M AU - Crimp contact

1273581

<https://www.phoenixcontact.com/us/products/1273581>



Crimp contact, contact diameter: 2.5 mm, turned, Pin, contact material: Copper alloy, lead-free, contact surface: gold-plated, connection cross section: 1.5 mm<sup>2</sup> ... 1.5 mm<sup>2</sup>, AWG 16

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## CK2,5-ED-2,50M AU - Crimp contact

1273572

<https://www.phoenixcontact.com/us/products/1273572>



Crimp contact, contact diameter: 2.5 mm, turned, Pin, contact material: Copper alloy, lead-free, contact surface: gold-plated, connection cross section: 2.5 mm<sup>2</sup> ... 2.5 mm<sup>2</sup>, AWG 14

## HC-A16-I-CT-M - Contact insert

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### CK2,5-ED-4,00M AU - Crimp contact

1273568

<https://www.phoenixcontact.com/us/products/1273568>



Crimp contact, contact diameter: 2.5 mm, turned, Pin, contact material: Copper alloy, lead-free, contact surface: gold-plated, connection cross section: 4 mm<sup>2</sup> ... 4 mm<sup>2</sup>, AWG 12

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## HC-A16-I-CT-F - Contact insert

1585443

<https://www.phoenixcontact.com/us/products/1585443>



Contact insert, number of positions: 16+PE, size: D25, number of connections per position: 1, Socket, Crimp connection, 250 V, 16 A, 0.5 mm<sup>2</sup> ... 4 mm<sup>2</sup>

## HC-A16-I-CT-M - Contact insert

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## HC-A-PE-PT - Adapter

1054712

<https://www.phoenixcontact.com/us/products/1054712>



PE adapter with PT connection, for 1 PE connection, for HC-A10 / HC-A16 / HC-D15 / HC-D25 series contact inserts

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## UNIFOX MT-CK 1.6/2.5 - Assembly tool

1089092

<https://www.phoenixcontact.com/us/products/1089092>



Assembly tool, for CK 1.6... crimp contacts for small conductor cross sections

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## UNIFOX RT-CK 2.5 - Contact removal tool

1072067

<https://www.phoenixcontact.com/us/products/1072067>

Contact removal tool, for turned CK 2,5... contacts



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