![Chipsmall logo]

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With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!

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# Contact insert - HC-B 16-I-CT-M-32 - 1584910

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HEAVYCON male insert, B16 series, 16-pos., 17 ... 32 color print, crimp connection. PE connection using tension sleeve technology.

## Product Features

☑ For fast coding with plastic profile

☑ PE connection using tension sleeve technology

## Key commercial data

| Packing unit | 1 1 |
|---|---|
| Weight per Piece (excluding packing) | 72.49 GRM |
| Custom tariff number | 85366990 |
| Country of origin | China |

## Technical data

### General

| Note | For HEAVYCON ADVANCE housing of B16 type and HEAVYCON housing of B16/B32 type, crimp contacts CK 2,5-ED (crimp contacts not included in the scope of supply). |
|---|---|
| Connection method | Crimp connection |
| Pollution degree | 3 |
| Surge voltage category | III |
| Constructional and testing regulations | DIN EN 61984 |
| | DIN EN 60664 |
| | IEC 60352 |
| Number of positions | 16+PE |
| Insertion/withdrawal cycles | ≥ 500 |
| Design | B16 |
| Connection in acc. with standard | IEC / EN |

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## Technical data

### General

| | |
|---|---|
| Conductor cross section | 0.5 mm² ... 4 mm² |
| Connection cross section AWG | 20 ... 12 |
| Stripping length of the individual wire | 7.5 mm |
| Assembly instructions | Coding also using the CP-HC (1686478) coding profiles. HC-B6../ HC-B10..for two coding profiles. HC-B16../ HC-B24..for four coding profiles. |
| Connection | For housing design B16. Connectors may only be inserted when there is no load/the power is switched off. Use a screwdriver to remove the crimp contacts. The opening for the screwdriver is next to the opening where the conductor is inserted. |

### Ambient conditions

| | |
|---|---|
| Ambient temperature (operation) | -40 °C ... 125 °C (including heating up of contacts) |
| Degree of protection | IP20 |

### Material data

| | |
|---|---|
| Inflammability class according to UL 94 | V0 |
| Contact material | Copper alloy |
| Contact surface material | Ag (alternatively Au) |
| Contact carrier material | PA |

### Electrical characteristics

| | |
|---|---|
| Rated voltage (III/3) | 500 V |
| Rated surge voltage | 6 kV |
| Rated current | 16 A |

## Classifications

### eCl@ss

| | |
|---|---|
| eCl@ss 4.0 | 272607xx |
| eCl@ss 4.1 | 27260701 |
| eCl@ss 5.0 | 27143424 |
| eCl@ss 5.1 | 27143424 |
| eCl@ss 6.0 | 27143424 |
| eCl@ss 7.0 | 27440209 |
| eCl@ss 8.0 | 27440209 |

### ETIM

| | |
|---|---|
| ETIM 3.0 | EC000438 |
| ETIM 4.0 | EC000438 |
| ETIM 5.0 | 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 |

## Approvals

### Approvals

Approvals

CSA / UL Recognized / cUL Recognized / cULus Recognized

Ex Approvals

Approvals submitted

### Approval details

CSA

| | |
|---|---|
| mm²/AWG/kcmil | 20-12 |
| Nominal current IN | 20 A |
| Nominal voltage UN | 600 V |

UL Recognized

| | |
|---|---|
| mm²/AWG/kcmil | 22-14 |
| Nominal current IN | 13 A |
| Nominal voltage UN | 600 V |

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## Approvals

cUL Recognized c**RU**

| | |
|---|---|
| mm²/AWG/kcmil | 22-14 |
| Nominal current IN | 13 A |
| Nominal voltage UN | 600 V |

cULus Recognized c**RU**us

## Accessories

Accessories

Adapter plate

Adapter plate - HC-B 24-ADP-B 16-GY - 1660449

HEAVYCON adapter plate, type B24 on B16, for panel cutouts of type B24, gray

Assembly tool

Removal tool - CK2,5-EWZ - 1662722

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

Coding element

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## Accessories

Coding profile - CP-HC - 1686478

Encoding profile, 4 encoding profiles per strip, 40 strips per unit pack, for insertion in encoding grooves

Coding element - HC-CBU - 1676860

Coding socket for coding up to 16 connectors

Coding bolt - HC-CB - 1772722

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

Coding element - HC-CST - 1676857

Coding peg for coding up to 16 connectors

Crimp contact

Crimp contact - CK2,5-ED-0,50ST AG - 1663572

Turned 2.5 crimp contact, individual male contact, core diameter 0.5 mm², silver-plated

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## Accessories

Crimp contact - CK2,5-ED-0,75ST AG - 1663585

Turned 2.5 crimp contact, individual male contact, core diameter 0.75 mm², silver-plated

Crimp contact - CK2,5-ED-1,00ST AG - 1663598

Turned 2.5 crimp contact, individual male contact, core diameter 0.75 to 1.00 mm², silver-plated

Crimp contact - CK2,5-ED-1,50ST AG - 1663608

Turned 2.5 crimp contact, individual male contact, core diameter 1.5 mm², silver-plated

Crimp contact - CK2,5-ED-2,50ST AG - 1663611

Turned 2.5 crimp contact, individual male contact, core diameter 2.5 mm², silver-plated

Crimp contact - CK2,5-ED-3,00ST AG - 1663624

Turned 2.5 crimp contact, individual male contact, core diameter 3.00 mm², silver-plated

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## Accessories

Crimp contact - CK2,5-ED-4,00ST AG - 1663637

Turned 2.5 crimp contact, individual male contact, core diameter 4.00 mm², silver-plated

Crimp contact - CK2,5-ED-0,50ST AU - 1674804

Turned 2.5 crimp contact, individual male contact, core diameter 0.5 mm², gold-plated

Crimp contact - CK2,5-ED-1,00ST AU - 1674781

Turned 2.5 crimp contact, individual male contact, core diameter 0.75 to 1.0 mm², gold-plated

Crimp contact - CK2,5-ED-1,50ST AU - 1674778

Turned 2.5 crimp contact, individual male contact, core diameter 1.5 mm², gold-plated

Crimp contact - CK2,5-ED-2,50ST AU - 1674817

Turned 2.5 crimp contact, individual male contact, core diameter 2.5 mm², gold-plated

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## Accessories

Crimp contact - CK2,5-ED-4,00ST AU - 1674794

Turned 2.5 crimp contact, individual male contact, core diameter 4.00 mm², gold-plated

## Crimping tool

Crimping pliers - CRIMPFOX-1,6/2,5-ED-4,0 - 1687419

Crimping pliers, for turned contacts, CK 1.6 ED... and CK 2.5 ED...

## Docking frame

Docking frames - HC-B 16-ANDOCK - 1586138

Docking frame for racks, for contact inserts of B16 type, with four M5 flat headed screws, rack balance x/y axis +- 1.5 mm

## Mounting material

Mounting material - HC-B-PES - 1604997

PE screw, for contact inserts HC-B / HC-BB / HC-DD / HC-D40 / HC-D64

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## Accessories

PE multiplier - HC-B-3PE - 1644326

PE multiplier, for three PE connections, for HC-B (besides HC-B..E..ZZ) / HC-BB / HC-DD / HC-D40 / HC-D64 contact inserts

Strain relief clamp - HC-B-ZG - 1685327

Strain relief clamps contact inserts of series: B-, BB-, D 40, D 64, DD and HV, straight cable exit

Strain relief clamp - HC-B-ZS - 1685330

Strain relief clamps contact inserts of series: B-, BB-, D 40, D 64, DD and HV, lateral cable exit

## Plug assembly frame

Connector assembly frame - HC-SMR-B16 - 1687972

HEAVYCON connector assembly frame, for contact inserts of type B16

## Plug mounting plate

Connector assembly frame - HC-SMP 125-B16-AMQ - 1660973

HEAVYCON connector assembly frame with panel mounting base with double locking latch, for contact inserts of type B16

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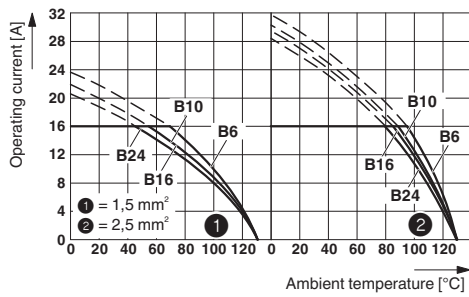
## Accessories

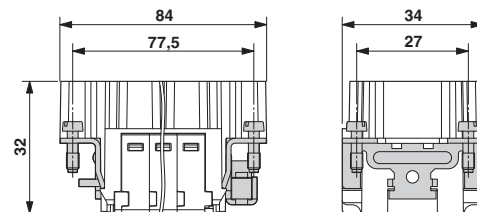- CK2,5-ED-0,37ST AG - 1585650

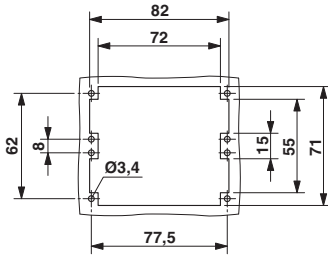- CK2,5-ED-0,37ST AU - 1585663

## Drawings

### Diagram



Derating diagram

### Dimensioned drawing



Male insert

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# Contact insert - HC-B 16-I-CT-M-32 - 1584910

Dimensioned drawing

82
72
62
8
Ø3,4
15
55
71
77,5

Panel cutout

Schematic diagram

25 ● ● 17
26 ● ● 18
27 ● ● 19
28 ● ● 20
29 ● ● 21
30 ● ● 22
31 ● ● 23
32 ● ● 24
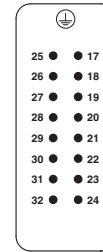
Connector pin assignment, connection side

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