

# HC-D 40-I-CT-M - Contact insert

1584415

<https://www.phoenixcontact.com/us/products/1584415>



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Contact insert, number of positions: 40+PE, size: B16, number of connections per position: 1, Pin, Crimp connection, 250 V, 10 A, 0.14 mm<sup>2</sup> ... 2.5 mm<sup>2</sup>, application: Signal

## Your advantages

- Can be used in rail vehicles, satisfy DIN EN 45545-2 with requirement sets R22, R23, and R24 in hazard levels HL1, HL2, and HL3.
- For fast coding with plastic profile (Order No. 1410916, type CP-HC-S)
- Shock and vibration-resistant in accordance with DIN EN 61373

## Commercial data

|                                      |                     |
|--------------------------------------|---------------------|
| Item number                          | 1584415             |
| Packing unit                         | 1 pc                |
| Minimum order quantity               | 1 pc                |
| Sales key                            | BF61                |
| Product key                          | BF7ABE              |
| Catalog page                         | Page 535 (C-2-2019) |
| GTIN                                 | 4046356142670       |
| Weight per piece (including packing) | 50.7 g              |
| Weight per piece (excluding packing) | 49.1 g              |
| Customs tariff number                | 85389099            |
| Country of origin                    | CN                  |

# HC-D 40-I-CT-M - Contact insert



1584415

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## Technical data

### Notes

|         |                                                                                                                       |
|---------|-----------------------------------------------------------------------------------------------------------------------|
| General | For HEAVYCON ADVANCE and HEAVYCON housing of type B16, crimp contacts: CK 1,6-ED... (not included in scope of supply) |
| General | Connectors may be operated only when there is no load/voltage.                                                        |
| General | It is imperative that guide pins (HC-CST) and sockets (HC-CBU) are used to prevent tip collision due to misalignment. |
| General | This product replaces 1679485 HC-D 40-ESTC-R                                                                          |

### Mounting

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

### Product properties

|                                    |                                              |
|------------------------------------|----------------------------------------------|
| Product type                       | Contact insert with a fixed no. of positions |
| Series                             | HC-D                                         |
| Application                        | Signal                                       |
| Type                               | B16                                          |
|                                    | B32                                          |
| Number of positions                | 40                                           |
| Note number of positions           | 40+PE                                        |
| Connection profile                 | 40+PE                                        |
| Number of connections per position | 1                                            |
| Contact material type              | turned                                       |
|                                    | rolled                                       |

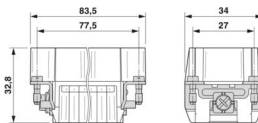
### Data management status

|                  |    |
|------------------|----|
| Article revision | 11 |
|------------------|----|

### Insulation characteristics

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

### Dimensions

|                                 |                                                                                      |
|---------------------------------|--------------------------------------------------------------------------------------|
| Dimensional drawing             |  |
| Width                           | 34 mm                                                                                |
| Height                          | 32.8 mm                                                                              |
| Length                          | 83.5 mm                                                                              |
| Drill hole distance, horizontal | 77.5 mm                                                                              |

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1584415

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## Mechanical characteristics

|                  |        |
|------------------|--------|
| Contact diameter | 1.6 mm |
|------------------|--------|

## Connection data

### Connection technology

|                                    |                  |
|------------------------------------|------------------|
| Connection technology              | Crimp connection |
| Number of connections per position | 1                |
| Connection in acc. with standard   | IEC / EN         |

### Conductor connection

|                                         |                                                                                                               |
|-----------------------------------------|---------------------------------------------------------------------------------------------------------------|
| Conductor cross section                 | 0.14 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>                                                                  |
| Connection cross section AWG            | 26 ... 14                                                                                                     |
| Tightening torque                       | 0.8 Nm ... 1.2 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 (0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> )<br>6 mm (2.5 mm <sup>2</sup> )                           |

## Electrical properties

|                       |                |
|-----------------------|----------------|
| Rated voltage (III/3) | 250 V          |
| Rated surge voltage   | 4 kV           |
| Rated current         | 10 A           |
| SCCR                  | 5 kA (UL 2237) |

## 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               | 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

|                                        |                                                               |
|----------------------------------------|---------------------------------------------------------------|
| Constructional and testing regulations | DIN VDE 0627/86<br>DIN VDE 0110/02.79<br>DIN VDE 0110-1/04.97 |
|----------------------------------------|---------------------------------------------------------------|

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|                       |                                                                                                                         |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------|
| Tests                 | IEC 60664-1, DIN IEC 60512                                                                                              |
|                       | IEC 60352                                                                                                               |
|                       | DIN VDE 0627/86                                                                                                         |
|                       | DIN VDE 0110/02.79                                                                                                      |
|                       | DIN VDE 0110-1/04.97                                                                                                    |
|                       | IEC 60664-1, DIN IEC 60512                                                                                              |
|                       | IEC 60352                                                                                                               |
| 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-D 40-I-CT-M - Contact insert

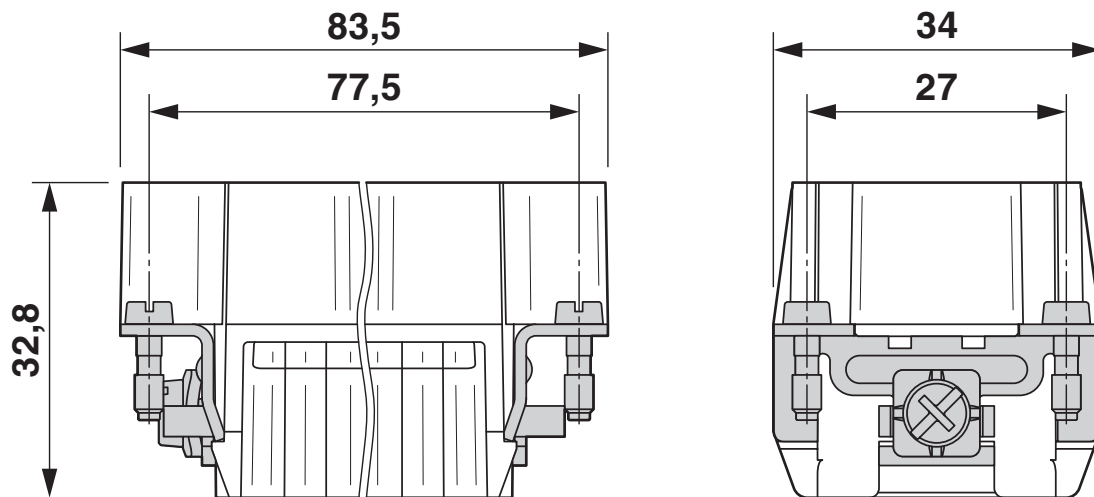
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## Drawings

Dimensional drawing



Male insert

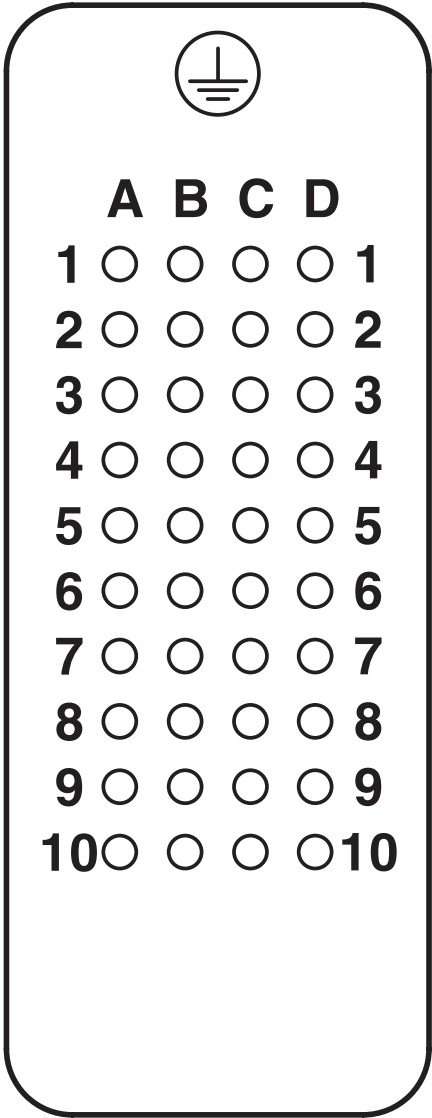
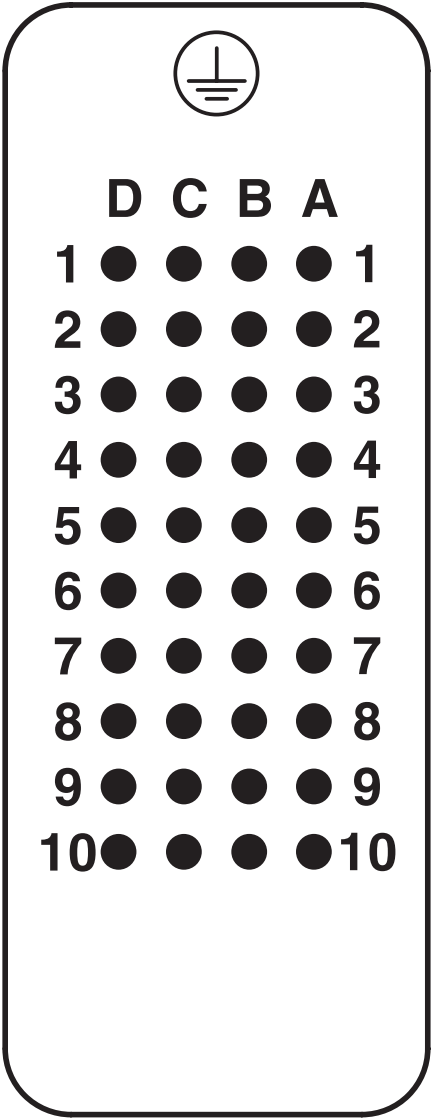
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Schematic diagram



Connector pin assignment connection side: Left pin; right socket

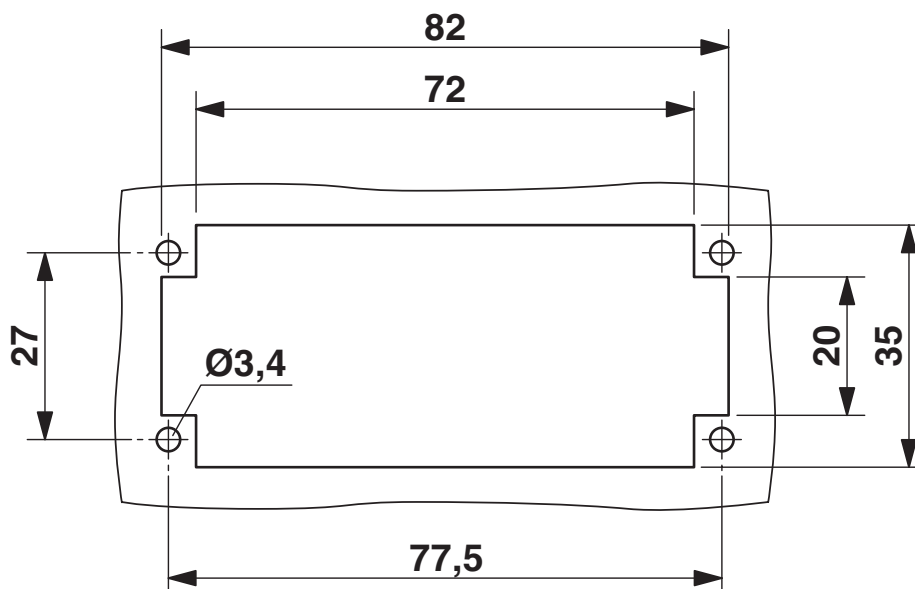
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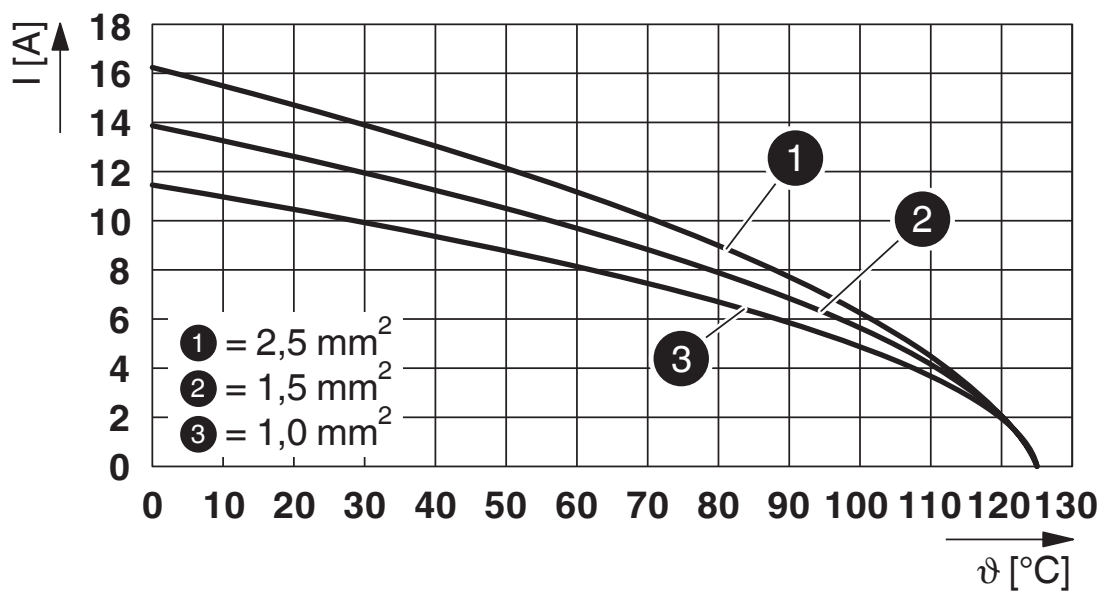


Dimensional drawing



Mounting cutout when used without housing

Diagram

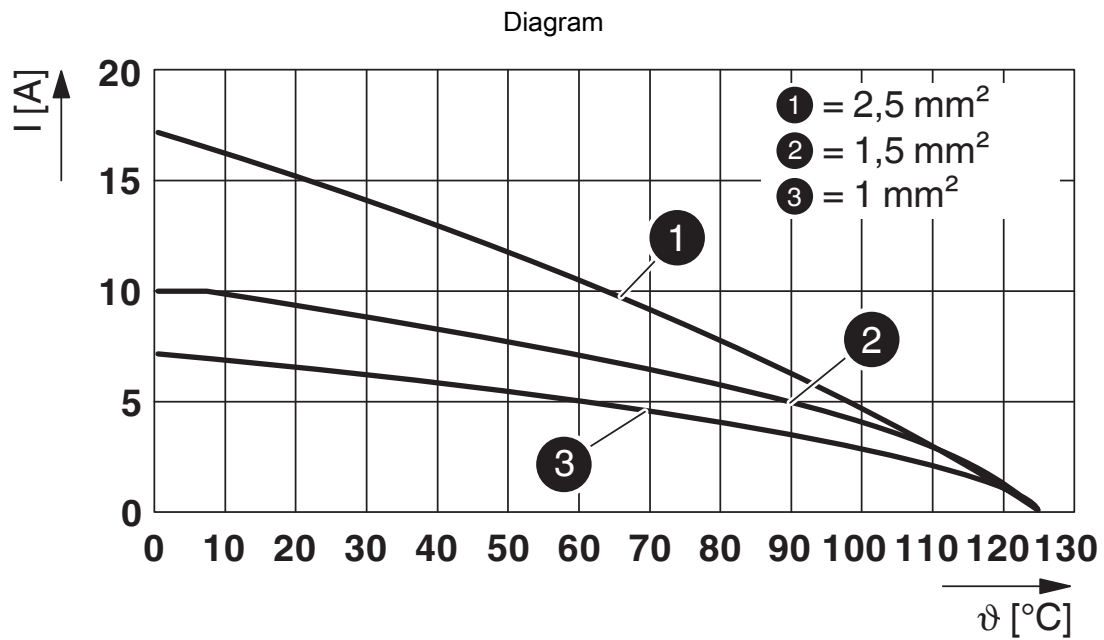


Derating diagram turned contacts

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Derating diagram rolled contacts



# HC-D 40-I-CT-M - Contact insert



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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1584415>

### DNV

Approval ID: TAE000037S



### CSA

Approval ID: 13631

|  | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
|--|-----------------------|-----------------------|-------------------|-----------------------------|
|  | 600 V                 | 7 A                   | - 14              | -                           |



### UL Recognized

Approval ID: FILE E 118976

|  | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
|--|-----------------------|-----------------------|-------------------|-----------------------------|
|  | 600 V                 | 10 A                  | -                 | -                           |



### EAC

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



### UL Recognized

Approval ID: E468743

|  | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
|--|-----------------------|-----------------------|-------------------|-----------------------------|
|  | 600 V                 | 10 A                  | -                 | -                           |

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## Classifications

### ECLASS

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

### ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | 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

### 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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## HC-B-PE-PT - Adapter

1054672

<https://www.phoenixcontact.com/us/products/1054672>



PE adapter with PT connection, for 1 PE connection, for HC-B / HC-BB / HC-DD / HC-D40 / HC-D64 contact inserts

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## HC-B-2PE-PT - PE multiplier

1054675

<https://www.phoenixcontact.com/us/products/1054675>



PE adapter with PT connection, for 2 PE connections, for HC-B / HC-BB / HC-DD / HC-D40 / HC-D64 contact inserts

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## HC-B-3PE - PE multiplier

1644326

<https://www.phoenixcontact.com/us/products/1644326>



PE multiplier, for 3 PE connections, for HC-B / HC-BB / HC-DD / HC-D40 / HC-D64 contact inserts

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<https://www.phoenixcontact.com/us/products/1584415>



## HC-B-PES - Screw

1604997

<https://www.phoenixcontact.com/us/products/1604997>

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



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## HC-B-ZG - Strain relief clamp

1685327

<https://www.phoenixcontact.com/us/products/1685327>

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



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<https://www.phoenixcontact.com/us/products/1584415>



## HC-B-ZS - Strain relief clamp

1685330

<https://www.phoenixcontact.com/us/products/1685330>



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

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## HC-CIF-B16-HFWL-PL - DIN rail mounting frame

1424336

<https://www.phoenixcontact.com/us/products/1424336>



DIN rail mounting frame, design: B16, for contact inserts, Top frame



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## HC-B 16-ANDOCK - Docking frame

1586138

<https://www.phoenixcontact.com/us/products/1586138>



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

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## HC-CIF-B06-24-BFAFL-PL - DIN rail mounting frame

1424338

<https://www.phoenixcontact.com/us/products/1424338>



DIN rail mounting frame, design: B6 - B24, for contact inserts, Base frame

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## HC-B24/16-ADP-SS - Adapter plate

1034216

<https://www.phoenixcontact.com/us/products/1034216>

Adapter plate, design: B24 to B16



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## CK1,6-ED-0,37ST AG - Crimp contact

1663336

<https://www.phoenixcontact.com/us/products/1663336>



Crimp contact, contact diameter: 1.6 mm, turned, Pin, contact material: Copper alloy, contact surface: silver-plated, connection cross section: 0.14 mm<sup>2</sup> ... 0.37 mm<sup>2</sup>, AWG 26 ... 22

# HC-D 40-I-CT-M - Contact insert

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<https://www.phoenixcontact.com/us/products/1584415>



## CK1,6-ED-0,50ST AG - Crimp contact

1663349

<https://www.phoenixcontact.com/us/products/1663349>



Crimp contact, contact diameter: 1.6 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

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## CK1,6-ED-0,75ST AG - Crimp contact

1663352

<https://www.phoenixcontact.com/us/products/1663352>



Crimp contact, contact diameter: 1.6 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

# HC-D 40-I-CT-M - Contact insert

1584415

<https://www.phoenixcontact.com/us/products/1584415>



## CK1,6-ED-1,00ST AG - Crimp contact

1663365

<https://www.phoenixcontact.com/us/products/1663365>



Crimp contact, contact diameter: 1.6 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

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## CK1,6-ED-1,50ST AG - Crimp contact

1663378

<https://www.phoenixcontact.com/us/products/1663378>



Crimp contact, contact diameter: 1.6 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

# HC-D 40-I-CT-M - Contact insert

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<https://www.phoenixcontact.com/us/products/1584415>



## CK1,6-ED-2,50ST AG - Crimp contact

1663381

<https://www.phoenixcontact.com/us/products/1663381>



Crimp contact, contact diameter: 1.6 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

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## CK1,6-ED-ST-POF - Pin contact

1884995

<https://www.phoenixcontact.com/us/products/1884995>



POF fiber optic pin contact, turned, for contact carriers (HC-DD...I-CT.../ HC-M-12-CT-.../ HC-M-17-CT-...) of CK1,6-ED... contacts

# HC-D 40-I-CT-M - Contact insert

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<https://www.phoenixcontact.com/us/products/1584415>



## CK1,6-ED-0,37M AG - Crimp contact

1266193

<https://www.phoenixcontact.com/us/products/1266193>



Crimp contact, contact diameter: 1.6 mm, turned, Pin, contact material: Copper alloy, lead-free, contact surface: silver-plated, connection cross section: 0.14 mm<sup>2</sup> ... 0.34 mm<sup>2</sup>, AWG 26 ... 22

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## CK1,6-ED-0,50M AG - Crimp contact

1266195

<https://www.phoenixcontact.com/us/products/1266195>



Crimp contact, contact diameter: 1.6 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

# HC-D 40-I-CT-M - Contact insert

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## CK1,6-ED-1,50M AG - Crimp contact

1266245

<https://www.phoenixcontact.com/us/products/1266245>



Crimp contact, contact diameter: 1.6 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

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## CK1,6-ED-0,75M AG - Crimp contact

1266450

<https://www.phoenixcontact.com/us/products/1266450>



Crimp contact, contact diameter: 1.6 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-D 40-I-CT-M - Contact insert

1584415

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## CK1,6-ED-1,00M AG - Crimp contact

1266244

<https://www.phoenixcontact.com/us/products/1266244>



Crimp contact, contact diameter: 1.6 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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## CK1,6-ED-2,50M AG - Crimp contact

1266247

<https://www.phoenixcontact.com/us/products/1266247>



Crimp contact, contact diameter: 1.6 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



# HC-D 40-I-CT-M - Contact insert

1584415

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## CK1,6-ED-0,37ST AU - Crimp contact

1674901

<https://www.phoenixcontact.com/us/products/1674901>



Crimp contact, contact diameter: 1.6 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 26 ... 22

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## CK1,6-ED-0,50ST AU - Crimp contact

1672453

<https://www.phoenixcontact.com/us/products/1672453>



Crimp contact, contact diameter: 1.6 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

# HC-D 40-I-CT-M - Contact insert

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## CK1,6-ED-0,75ST AU - Crimp contact

1674914

<https://www.phoenixcontact.com/us/products/1674914>



Crimp contact, contact diameter: 1.6 mm, turned, Pin, contact material: Copper alloy, contact surface: gold-plated, connection cross section: 0.75 mm<sup>2</sup> ... 0.75 mm<sup>2</sup>, AWG 18

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## CK1,6-ED-1,00ST AU - Crimp contact

1674888

<https://www.phoenixcontact.com/us/products/1674888>



Crimp contact, contact diameter: 1.6 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-D 40-I-CT-M - Contact insert

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## CK1,6-ED-1,50ST AU - Crimp contact

1674875

<https://www.phoenixcontact.com/us/products/1674875>



Crimp contact, contact diameter: 1.6 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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## CK1,6-ED-2,50ST AU - Crimp contact

1674927

<https://www.phoenixcontact.com/us/products/1674927>



Crimp contact, contact diameter: 1.6 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

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## CK1,6-ER-1,00ST OIC AG - Crimp contact

1004360

<https://www.phoenixcontact.com/us/products/1004360>



Crimp contact, contact diameter: 1.6 mm, rolled, Pin, contact material: Cu alloy, nickel-plated, contact surface: silver-plated, connection cross section: 0.34 mm<sup>2</sup> ... 1 mm<sup>2</sup>, AWG 22 ... 17

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## CK1,6-ER-2,50ST OIC AG - Crimp contact

1004365

<https://www.phoenixcontact.com/us/products/1004365>



Crimp contact, contact diameter: 1.6 mm, rolled, Pin, contact material: Cu alloy, nickel-plated, contact surface: silver-plated, connection cross section: 1.5 mm<sup>2</sup> ... 2.5 mm<sup>2</sup>, AWG 16 ... 14

# HC-D 40-I-CT-M - Contact insert

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## CK1,6-BR-1,00ST OIC AG - Crimp contact

1004380

<https://www.phoenixcontact.com/us/products/1004380>



Crimp contact, contact diameter: 1.6 mm, rolled, Pin, contact material: Cu alloy, nickel-plated, contact surface: silver-plated, connection cross section: 0.34 mm<sup>2</sup> ... 1 mm<sup>2</sup>, AWG 22 ... 17, Taped products

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## CK1,6-BR-2,50ST OIC AG - Crimp contact

1004382

<https://www.phoenixcontact.com/us/products/1004382>



Crimp contact, contact diameter: 1.6 mm, rolled, Pin, contact material: Cu alloy, nickel-plated, contact surface: silver-plated, connection cross section: 1.5 mm<sup>2</sup> ... 2.5 mm<sup>2</sup>, AWG 16 ... 14, Taped products

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## HC-D 40-I-CT-F - Contact insert

1584428

<https://www.phoenixcontact.com/us/products/1584428>



Contact insert, number of positions: 40+PE, size: B16, number of connections per position: 1, Socket, Crimp connection, 250 V, 10 A, 0.14 mm<sup>2</sup> ... 2.5 mm<sup>2</sup>, application: Signal

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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 1.6 - Contact removal tool

1072069

<https://www.phoenixcontact.com/us/products/1072069>

Contact removal tool, for turned and rolled CK- 1.6-... contacts



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