

# HC-A04-I-PT-F - Contact insert



1585281

<https://www.phoenixcontact.com/gb/products/1585281>

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Contact insert, number of positions: 4+PE, size: D7, number of connections per position: 1, Socket, Push-in connection, 230 V, 10 A, 0.14 mm<sup>2</sup> ... 1.5 mm<sup>2</sup>

## Your advantages

- Easy installation without tools, even when mounted, with push-in connection technology
- Shortest installation time compared to other connection technologies
- Quick and effortless wiring, in particular when space is tight
- Automatic cabling with robots possible
- Safe wiring and operation with color-coded actuators
- Shock and vibration-resistant in accordance with DIN EN 61373
- Cost-effective and fast coding with plastic profiles

## Commercial data

|                                      |                     |
|--------------------------------------|---------------------|
| Item number                          | 1585281             |
| Packing unit                         | 1 pc                |
| Minimum order quantity               | 1 pc                |
| Sales key                            | BF7ABJ              |
| Product key                          | BF7ABJ              |
| Catalog page                         | Page 505 (C-2-2019) |
| GTIN                                 | 4046356285018       |
| Weight per piece (including packing) | 14.3 g              |
| Weight per piece (excluding packing) | 14.2 g              |
| Customs tariff number                | 85366990            |
| Country of origin                    | CN                  |

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## Technical data

### Notes

|         |                                                                |
|---------|----------------------------------------------------------------|
| General | only use flexible conductors with ferrules                     |
| General | Connectors may be operated only when there is no load/voltage. |
| General | for housing HC-D7                                              |

### 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-A                                         |
| Type                               | D7                                           |
| Number of positions                | 4                                            |
| Connection profile                 | 4+PE                                         |
| Contact numbering                  | 1 - 4                                        |
| Number of connections per position | 1                                            |
| Contact material type              | rolled                                       |

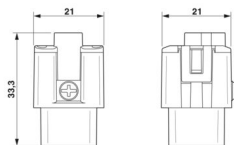
### Data management status

|                  |    |
|------------------|----|
| Article revision | 03 |
|------------------|----|

### Insulation characteristics

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

### Dimensions

|                     |                                                                                      |
|---------------------|--------------------------------------------------------------------------------------|
| Dimensional drawing |  |
| Width               | 21 mm                                                                                |
| Height              | 33.5 mm                                                                              |
| Length              | 21 mm                                                                                |

### Mechanical characteristics

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

### Connection data

#### Connection technology

|                                    |                    |
|------------------------------------|--------------------|
| Connection technology              | Push-in connection |
| Number of connections per position | 1                  |

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|                                  |          |
|----------------------------------|----------|
| Connection in acc. with standard | IEC / EN |
|----------------------------------|----------|

## Conductor connection

|                                         |                                                                          |
|-----------------------------------------|--------------------------------------------------------------------------|
| Conductor cross section                 | 0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>                             |
| Connection cross section AWG            | 26 ... 16                                                                |
| Tightening torque                       | 0.5 Nm ... 0.8 Nm (Mounting screws for mounting in the HEAVYCON housing) |
| Stripping length of the individual wire | 10 mm                                                                    |

## Electrical properties

|                                  |                             |
|----------------------------------|-----------------------------|
| Rated voltage (III/3)            | 230 V                       |
|                                  | 400 V (Conductor-Conductor) |
| Rated voltage for power contacts | 230/400 V                   |
| Rated surge voltage              | 4 kV                        |
| Rated current                    | 10 A                        |

## Mechanical properties

### Mechanical data

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

## Material specifications

|                                        |                                                                                                                         |
|----------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| Flammability rating according to UL 94 | V0                                                                                                                      |
| 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) |

## Environmental and real-life conditions

### Ambient conditions

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

## 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) |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------|

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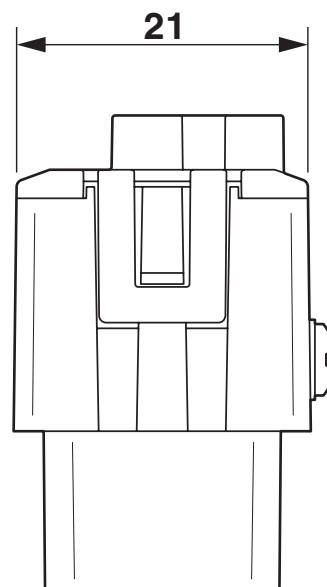
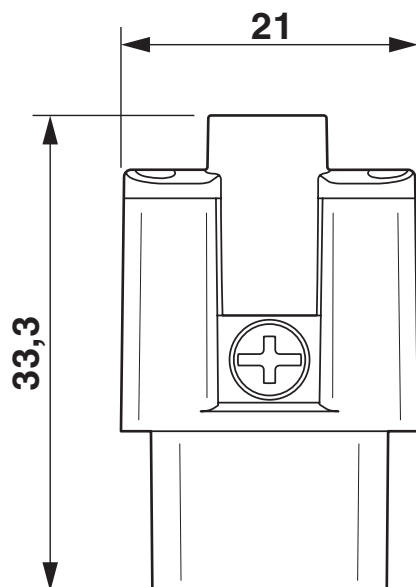
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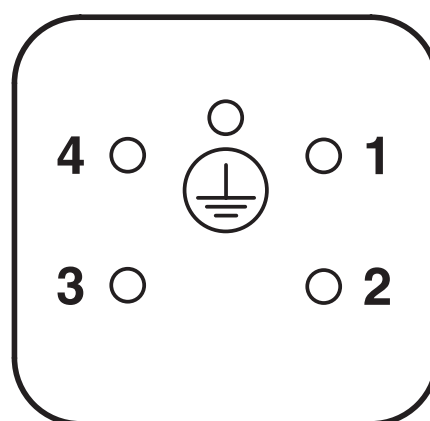
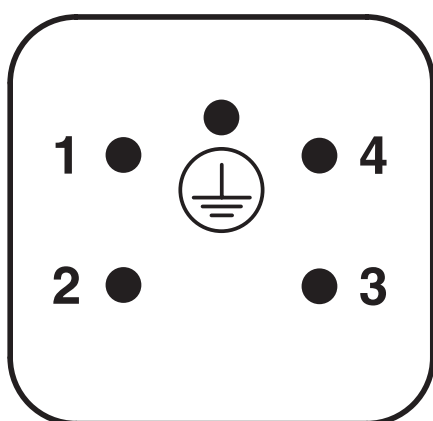
## Drawings

Dimensional drawing



Female insert

Schematic diagram

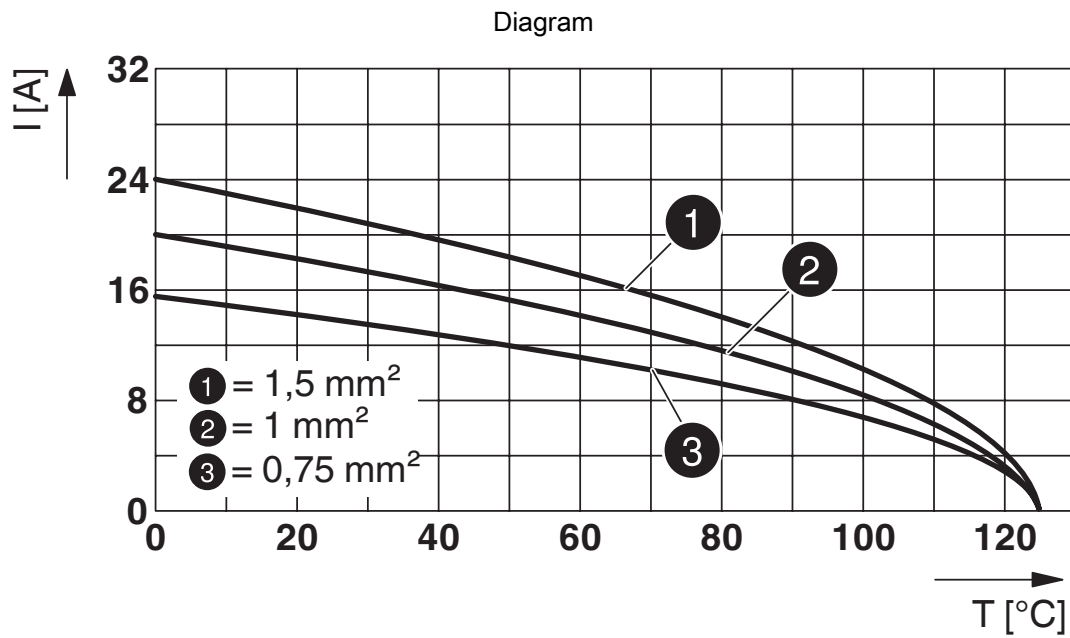


Connector pin assignment connection side: Left pin; right socket

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Derating diagram

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/gb/products/1585281>

### 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                 | 14 A                  | - 16              | -                           |



### UL Recognized

Approval ID: E118976

|  | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
|--|-----------------------|-----------------------|-------------------|-----------------------------|
|  | 600 V                 | 16 A                  | - 16              | -                           |



### EAC

Approval ID: EAC-Zulassung



### 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                 | 16 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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