

# HC-B 10-ESTQ-2,5 - Contact insert



1605624

<https://www.phoenixcontact.com/us/products/1605624>

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Contact insert, number of positions: 10+PE, size: B10, number of connections per position: 1, Pin, QUICKON connection, 500 V, 16 A, 0.34 mm<sup>2</sup> ... 2.5 mm<sup>2</sup>

## Product description

### Contact insert

With QUICKON connection technology, the wires are connected with just a turn of the screwdriver. The wires do not have to be stripped first. This reduces connection time by at least 60%.

## Commercial data

|                                      |                     |
|--------------------------------------|---------------------|
| Item number                          | 1605624             |
| Packing unit                         | 10 pc               |
| Minimum order quantity               | 10 pc               |
| Sales key                            | BF61                |
| Product key                          | BF7ABC              |
| Catalog page                         | Page 543 (C-2-2019) |
| GTIN                                 | 4017918940713       |
| Weight per piece (including packing) | 69.63 g             |
| Weight per piece (excluding packing) | 69.63 g             |
| Customs tariff number                | 85366990            |
| Country of origin                    | PL                  |

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## Technical data

### Notes

|         |  |
|---------|--|
| General | Connectors may be operated only when there is no load/voltage. |
|---------|--|

### Mounting

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

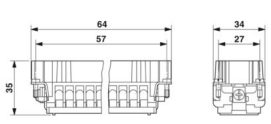
### Product properties

|                                    |  |
|------------------------------------|--|
| Type                               | B10  |
| Product type                       | Contact insert with a fixed no. of positions |
| Number of positions                | 10   |
| Connection profile                 | 10+PE  |
| Contact numbering                  | 1 - 10                                       |
| Number of connections per position | 1  |
| Contact material type              | rolled                                       |
| Series                             | HC-B   |

### Insulation characteristics

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

### Dimensions

|                                 |  |
|---------------------------------|--|
| Dimensional drawing             |  |
| Width                           | 34 mm  |
| Height                          | 35 mm  |
| Length                          | 64 mm  |
| Drill hole distance, horizontal | 57 mm  |
| Drill hole distance, vertical   | 27 mm  |

### Mechanical characteristics

|                  |        |
|------------------|--------|
| Contact diameter | 2.5 mm |
|------------------|--------|

### Connection data

#### Connection technology

|                                    |                    |
|------------------------------------|--------------------|
| Connection technology              | QUICKON connection |
| Number of connections per position | 1                  |

#### Conductor connection

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|                              |   |
|------------------------------|---|
| Conductor cross section      | 0.34 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> (Litz wire structure VDE 0295, Class 1 - 5/litz wire diameter $\geq$ 0.2 mm) |
| Connection cross section AWG | 22 ... 14   |
| Tightening torque            | 0.8 Nm ... 1.2 Nm (PE connection)   |
|                              | 0.5 Nm ... 0.8 Nm (Mounting screws for mounting in the HEAVYCON housing)  |

## Electrical properties

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

## Mechanical properties

### Mechanical data

|                             |            |
|-----------------------------|------------|
| Insertion/withdrawal cycles | $\geq$ 500 |
|-----------------------------|------------|

## Material specifications

|  |   |
|--|---|
| Material Wire insulation               | PVC / PE  |
| Flammability rating according to UL 94 | V0  |
| Contact material                       | Copper alloy  |
| Contact surface material               | Ag  |
| Contact carrier material               | PA  |
| Standards/regulations                  | PA: Fire protection in rail vehicles - requirement sets R22 and R23 acc. to DIN EN 45545-2 (Risk level HL1 - HL2) |
|  | PA: Fire protection in rail vehicles - requirement set 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) |
| Ambient temperature (assembly)  | -25 °C ... 50 °C                                     |

## Standards and regulations

### Testing

|                       |   |
|-----------------------|---|
| Standards/regulations | PA: Fire protection in rail vehicles - requirement sets R22 and R23 acc. to DIN EN 45545-2 (Risk level HL1 - HL2) |
|                       | PA: Fire protection in rail vehicles - requirement set R24 acc. to DIN EN 45545-2 (Risk level HL1 - HL3)          |

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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

|            |   |
|------------|---|
| China RoHS | Environmentally friendly use period: unlimited = EFUP-e<br>No hazardous substances above threshold values |
|------------|---|

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