

# RC-09P1N8L0000 - Contact insert



1607001

<https://www.phoenixcontact.com/us/products/1607001>

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Contact insert, M23, number of positions: 8+1, contact connection type: Pin, Crimp connection, series: NC, RC, RM, TU, UC, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1242202

The figure shows the 6-pos.  
product version

## Commercial data

|                                      |                                |
|--------------------------------------|--------------------------------|
| Item number                          | 1607001                        |
| Packing unit                         | 1 pc                           |
| Minimum order quantity               | 1 pc                           |
| Note                                 | Made to order (non-returnable) |
| Sales key                            | AB31                           |
| Product key                          | ABRAFU                         |
| GTIN                                 | 4046356207164                  |
| Weight per piece (including packing) | 11.6 g                         |
| Weight per piece (excluding packing) | 11.6 g                         |
| Customs tariff number                | 85389099                       |
| Country of origin                    | DE                             |

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## Technical data

### Product properties

|                     |                |
|---------------------|----------------|
| Product type        | Contact insert |
| Series              | NC             |
|                     | RC             |
|                     | RM             |
|                     | TU             |
|                     | UC             |
| Application         | Signal         |
| Number of positions | 9              |
| Connection profile  | 8+1            |
| Coding              | N              |
| Thread type         | M23            |

### Electrical properties

#### Contact: Contact group 1

|                                |                     |
|--------------------------------|---------------------|
| Contact diameter               | 2 mm                |
| Min. cross section             | 1 mm <sup>2</sup>   |
| Max. cross section             | 1.5 mm <sup>2</sup> |
| Nominal current I <sub>N</sub> | 20 A                |
| Nominal voltage U <sub>N</sub> | 48 V AC             |
|                                | 74 V DC             |
| Overvoltage category           | III                 |
| Degree of pollution            | 3                   |
| Rated surge voltage            | 1.5 kV              |

#### Contact: Contact group 2

|                                |                      |
|--------------------------------|----------------------|
| Contact diameter               | 1 mm                 |
| Min. cross section             | 0.14 mm <sup>2</sup> |
| Max. cross section             | 0.56 mm <sup>2</sup> |
| Nominal current I <sub>N</sub> | 8 A                  |
| Nominal voltage U <sub>N</sub> | 48 V AC              |
|                                | 74 V DC              |

### Connection data

|                   |                  |
|-------------------|------------------|
| Connection method | Crimp connection |
|-------------------|------------------|

### Material specifications

|                          |        |
|--------------------------|--------|
| Material Insulating body | PA 6.6 |
| Material Contact         | CuZn   |
| Material Contact surface | Ni/Au  |

### Connector

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|                       |          |
|-----------------------|----------|
| Direction of rotation | Standard |
|-----------------------|----------|

## Mechanical properties

### Mechanical data

|                             |    |
|-----------------------------|----|
| Insertion/withdrawal cycles | 50 |
|-----------------------------|----|

## Environmental and real-life conditions

### Ambient conditions

|  |               |
|--|---------------|
| Permissible humidity (storage/transport) | 50 % ... 65 % |
|--|---------------|

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## Drawings

Schematic diagram



Connector pin assignment

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Schematic diagram



Connector pin assignment

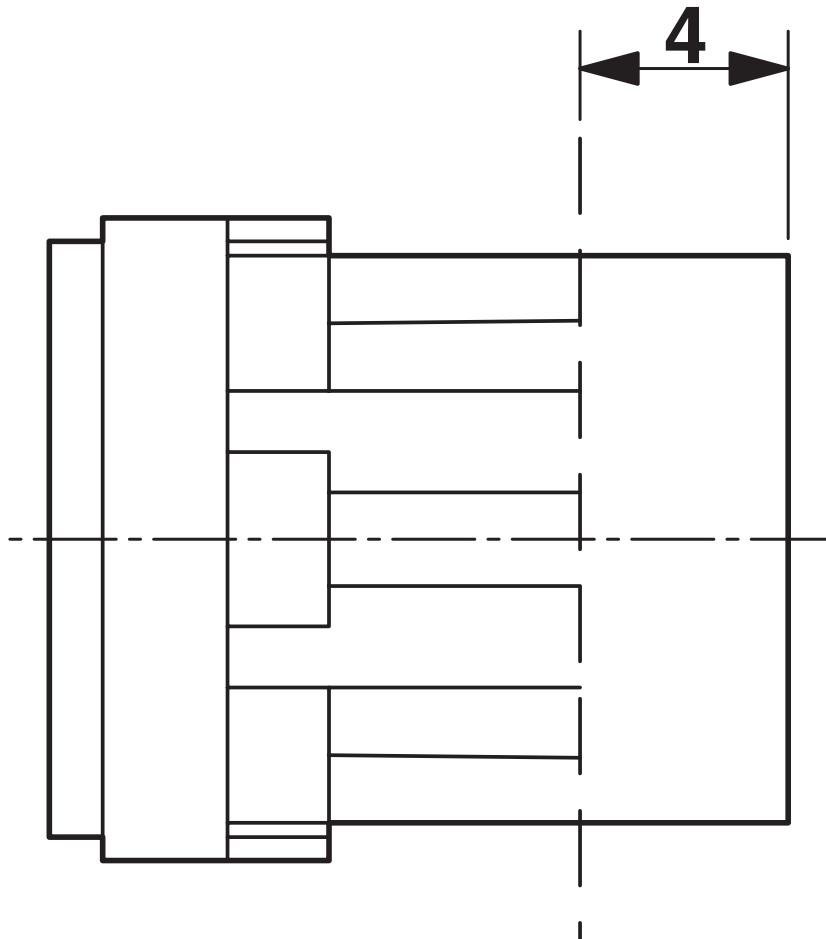
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Schematic diagram



Dimensional drawing

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## Classifications

### ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | EC003557 |
|----------|----------|

### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 21.0 | 39121400 |
|-------------|----------|

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## Environmental product compliance

### EU RoHS

|   |      |
|---|------|
| Fulfills EU RoHS substance requirements | Yes  |
| Exemption                               | 6(c) |

### China RoHS

|  |   |
|--|---|
| Environment friendly use period (EFUP) | EFUP-50   |
|  | An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required. |

### EU REACH SVHC

|                                     |                                      |
|-------------------------------------|--------------------------------------|
| REACH candidate substance (CAS No.) | Lead(CAS: 7439-92-1)                 |
| SCIP                                | d8de2091-ed75-4b6c-964c-d887967c57ef |

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