

# RC-12P1N8E0000 - Contact insert

1597641

<https://www.phoenixcontact.com/us/products/1597641>



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Contact insert, M23, number of positions: 12, contact connection type: Pin, Crimp connection, series: NC, RC, RM, TU, UC



## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1597641       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Sales key                            | AB31          |
| Product key                          | ABRAFU        |
| GTIN                                 | 4046356217262 |
| Weight per piece (including packing) | 8.6 g         |
| Weight per piece (excluding packing) | 3.026 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 | 12             |
| Connection profile  | 12             |
| Coding              | N              |
| Thread type         | M23            |

### Electrical properties

Contact: Contact group 1

|                                |                                         |
|--------------------------------|-----------------------------------------|
| Contact diameter               | 1 mm                                    |
| Min. cross section             | 0.22 mm <sup>2</sup>                    |
| Max. cross section             | 0.56 mm <sup>2</sup>                    |
| Nominal current I <sub>N</sub> | 8 A (for max. connection cross section) |
| 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                                  |

### Connection data

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

### Material specifications

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

### Connector

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

### Mechanical properties

Mechanical data

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

### Environmental and real-life conditions

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Ambient conditions

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

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## Drawings

Schematic diagram



Connector pin assignment

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27440223 |
| ECLASS-15.0 | 27440223 |

### 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, 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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