

# RC-19P1N120000 - Contact insert



1602482

<https://www.phoenixcontact.com/us/products/1602482>

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The figure shows the 12-pos.  
product version

Contact insert, M23, number of positions: 16+3, contact connection type: Pin, Solder cup, series: NC, RC, RM, TU, UC, this item is expected to be lead-free from Q2 2026 in accordance with RoHS II without exception 6c (Pb < 0.1%), a lead-free alternative is possible on request in advance

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1602482       |
| Packing unit                         | 10 pc         |
| Minimum order quantity               | 1 pc          |
| Sales key                            | AB31          |
| Product key                          | ABRAFU        |
| GTIN                                 | 4046356239844 |
| Weight per piece (including packing) | 10.46 g       |
| Weight per piece (excluding packing) | 7.94 g        |
| Customs tariff number                | 85366990      |
| 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     | 19             |
| Connection profile      | 16+3           |
| No. of control contacts | 19             |
| Coding                  | N              |
| Thread type             | M23            |

### Electrical properties

#### Contact: Contact group 1

|                                |  |
|--------------------------------|--|
| Contact diameter               | 1.5 mm                                   |
| Min. cross section             | 0.08 mm <sup>2</sup>                     |
| Max. cross section             | 1 mm <sup>2</sup>                        |
| Nominal current I <sub>N</sub> | 10 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                                   |

#### Contact: Contact group 2

|                                |                      |
|--------------------------------|----------------------|
| Contact diameter               | 1 mm                 |
| Min. cross section             | 0.08 mm <sup>2</sup> |
| Max. cross section             | 1 mm <sup>2</sup>    |
| Nominal current I <sub>N</sub> | 8 A                  |

### Connection data

|                   |            |
|-------------------|------------|
| Connection method | Solder cup |
|-------------------|------------|

### Material specifications

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

### Connector

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

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## Mechanical properties

### Mechanical data

|                             |     |
|-----------------------------|-----|
| Insertion/withdrawal cycles | 100 |
|-----------------------------|-----|

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## Drawings

Schematic diagram



Connector pin assignment

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Schematic diagram



Dimensional drawing

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## Classifications

### ECLASS

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

### ETIM

|           |          |
|-----------|----------|
| ETIM 10.0 | 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                                | 332cf332-5964-4d2f-8e5f-06ba59365f24 |

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Phoenix Contact USA  
586 Fulling Mill Road  
Middletown, PA 17057, United States  
(+717) 944-1300  
[info@phoenixcon.com](mailto:info@phoenixcon.com)