

# RC-12P1NA20000 - Contact insert



1597643

<https://www.phoenixcontact.com/us/products/1597643>

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Contact insert, M23, number of positions: 12, contact connection type: Pin, Solder-in connection, series: RC, TU, 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                          | 1597643       |
| Packing unit                         | 10 pc         |
| Minimum order quantity               | 1 pc          |
| Sales key                            | AB31          |
| Product key                          | ABRAFU        |
| GTIN                                 | 4046356217279 |
| Weight per piece (including packing) | 11.685 g      |
| Weight per piece (excluding packing) | 11.685 g      |
| Customs tariff number                | 85366990      |
| Country of origin                    | DE            |

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## Technical data

### Product properties

|                         |                |
|-------------------------|----------------|
| Product type            | Contact insert |
| Series                  | RC             |
|                         | TU             |
| Application             | Signal         |
| Number of positions     | 12             |
| Connection profile      | 12             |
| No. of control contacts | 12             |
| Coding                  | N              |
| Thread type             | M23            |

### Electrical properties

Contact: Contact group 1

|                       |   |
|-----------------------|---|
| Contact diameter      | 1 mm                                    |
| Nominal current $I_N$ | 8 A (for max. connection cross section) |
| Nominal voltage $U_N$ | 48 V AC                                 |
|                       | 74 V DC                                 |
| Overvoltage category  | III                                     |
| Degree of pollution   | 3                                       |
| Rated surge voltage   | 1.5 kV                                  |

### Connection data

|                   |                      |
|-------------------|----------------------|
| Connection method | Solder-in connection |
|-------------------|----------------------|

### Material specifications

|  |        |
|--|--------|
| Material Insulating body               | PA 6.6 |
| Material Contact                       | CuZn   |
| Material Contact surface               | Ni/Au  |
| Flammability rating according to UL 94 | V0     |

### Connector

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

### Mechanical properties

Mechanical data

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

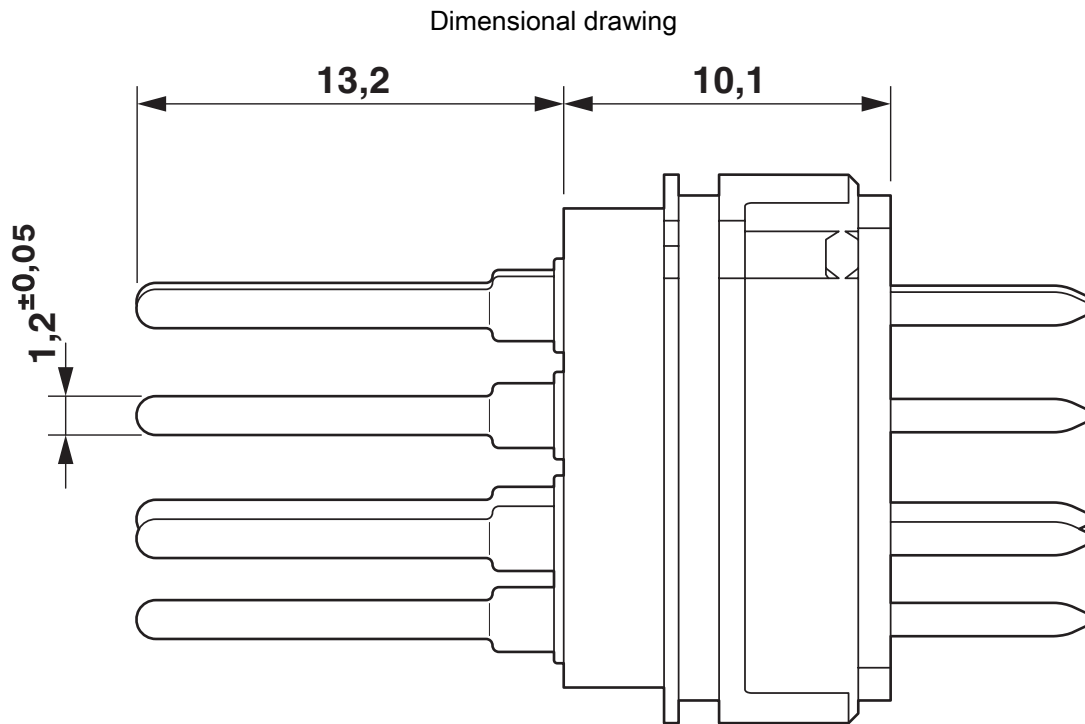
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## Drawings



Dimensional drawing

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Schematic diagram



Connector pin assignment

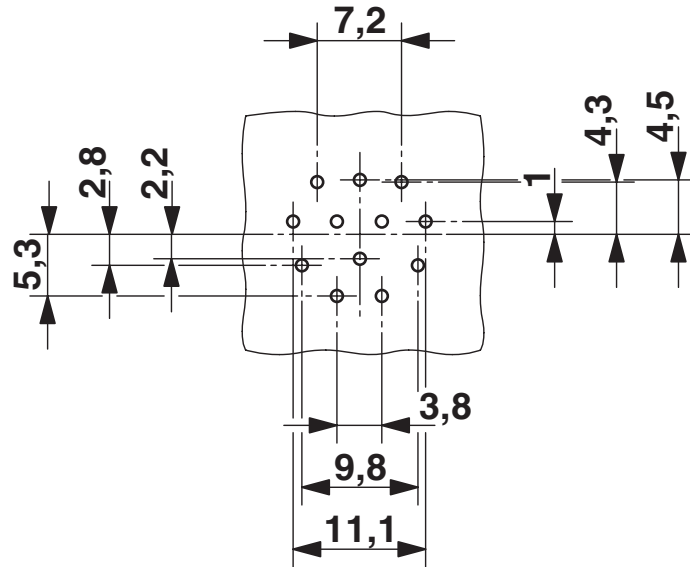
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Drilling plan/solder pad geometry



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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                                | 65b28217-80f1-402d-b144-520d5c9120c4 |

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