# RC-12S1N120000 - Contact insert

1598466

https://www.phoenixcontact.com/us/products/1598466

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Contact insert, M23, number of positions: 12, contact connection type: Socket, Solder cup, series: NC, RC, RM, TU, UC, this item is expected to be lead-free from Q3 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 | 1598466 |
| Packing unit | 10 pc |
| Minimum order quantity | 1 pc |
| Sales key | AB31 |
| Product key | ABRAFU |
| GTIN | 4046356220743 |
| Weight per piece (including packing) | 7.156 g |
| Weight per piece (excluding packing) | 5.04 g |
| Customs tariff number | 85366990 |
| Country of origin | DE |

## Technical data

### Product properties

| | |
|---|---|
| Product type | Contact insert |
| Series | NC |
| | RC |
| | RM |
| | TU |
| | UC |
| 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 |
| Min. cross section | 0.08 mm² |
| Max. cross section | 1 mm² |
| 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 cup |

### Material specifications

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

### Connector

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

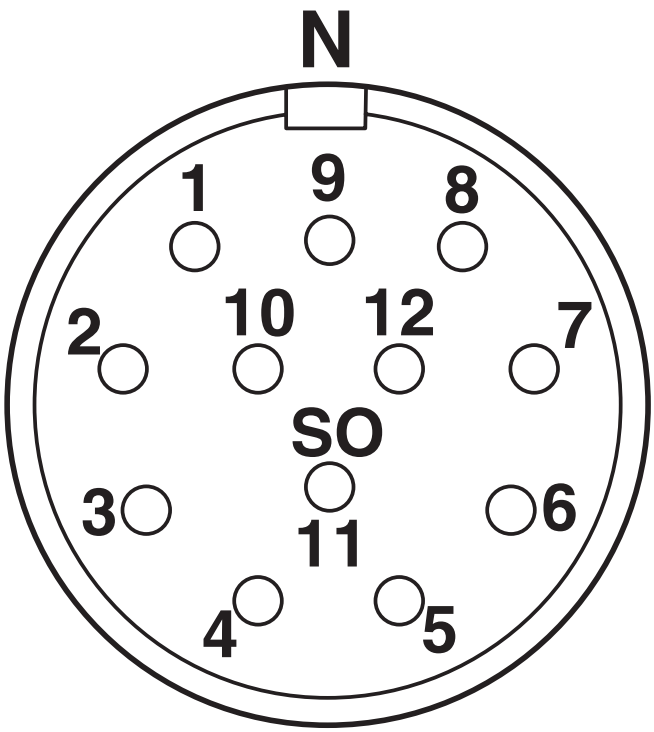
### Mechanical properties

Mechanical data

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

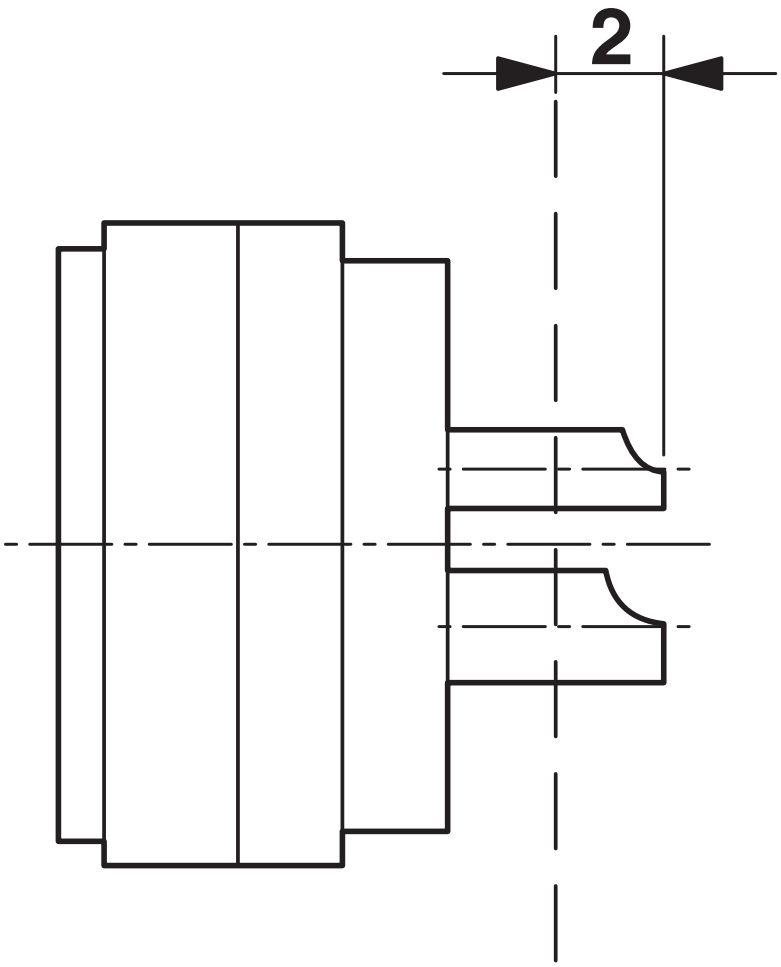
## Drawings

Schematic diagram




Connector pin assignment

Schematic diagram




Dimensional drawing

## Classifications

### ECLASS

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

### ETIM

| | |
|---|---|
| ETIM 10.0 | EC003557 |

### UNSPSC

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

## 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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