

1599380  
<https://www.phoenixcontact.com/us/products/1599380>

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M23, Device connector rear mounting, series: RC, straight, shielded: yes, Screw locking mechanism, No. of pos.: 12, Direction of rotation: Standard, contact connection type: Socket, Solder-in connection, Axial O-ring, Panel thickness min.: 0.8 mm, Panel thickness max.: 6.5 mm, coding: N, this item is expected to be lead-free from Q1 2027 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                          | 1599380       |
| Packing unit                         | 12 pc         |
| Minimum order quantity               | 12 pc         |
| Product key                          | ABRAFR        |
| GTIN                                 | 4046356225687 |
| Weight per piece (including packing) | 63.933 g      |
| Weight per piece (excluding packing) | 58.35 g       |
| Country of origin                    | DE            |

# RC-12S1NC2H000 - Device connector rear mounting



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## Technical data

### Product properties

|              |                                   |
|--------------|-----------------------------------|
| Product type | Circular connectors (device side) |
|--------------|-----------------------------------|

### Material specifications

|                                        |    |
|----------------------------------------|----|
| Flammability rating according to UL 94 | V0 |
|----------------------------------------|----|

### Connector

#### Insulating body

|                                         |                                         |
|-----------------------------------------|-----------------------------------------|
| Coding                                  | N                                       |
| Material (Insulating body)              | PBT                                     |
| Material (Contact)                      | CuZn                                    |
| Material (Contact surface)              | Ni/Au                                   |
| Insertion/withdrawal cycles             | 50                                      |
| Connection method                       | Solder-in connection                    |
| Contact switching type                  | Socket                                  |
| Application                             | Signal                                  |
| Number of positions                     | 12                                      |
| Direction of rotation                   | Standard                                |
| Connection profile                      | 12                                      |
| Number Contact (Contact group 1)        | 12                                      |
| Diameter Contact (Contact group 1)      | 1 mm                                    |
| Rated current Contact (Contact group 1) | 8 A (for max. connection cross section) |
| Rated voltage Contact (Contact group 1) | 48 V AC                                 |
|                                         | 74 V DC                                 |
| Rated surge voltage                     | 1.5 kV                                  |
| Overvoltage category                    | III                                     |
| Degree of pollution                     | 3                                       |

#### Housing

|                                   |                           |
|-----------------------------------|---------------------------|
| Type                              | Feed-through header       |
| Thread type                       | M23                       |
| Design                            | straight                  |
| Type of locking                   | Screw locking mechanism   |
| Pg screw connection               | none                      |
| Mounting type                     | Rear mounting (M25 x 1,5) |
| Assembly note                     | Central fastening         |
| Material (Housing)                | GD-Zn                     |
| Material (Housing surface)        | Ni                        |
| Material (Rotating parts)         | CuZn                      |
| Degree of protection (plugged in) | IP67                      |
| Seal for the device               | Axial O-ring              |

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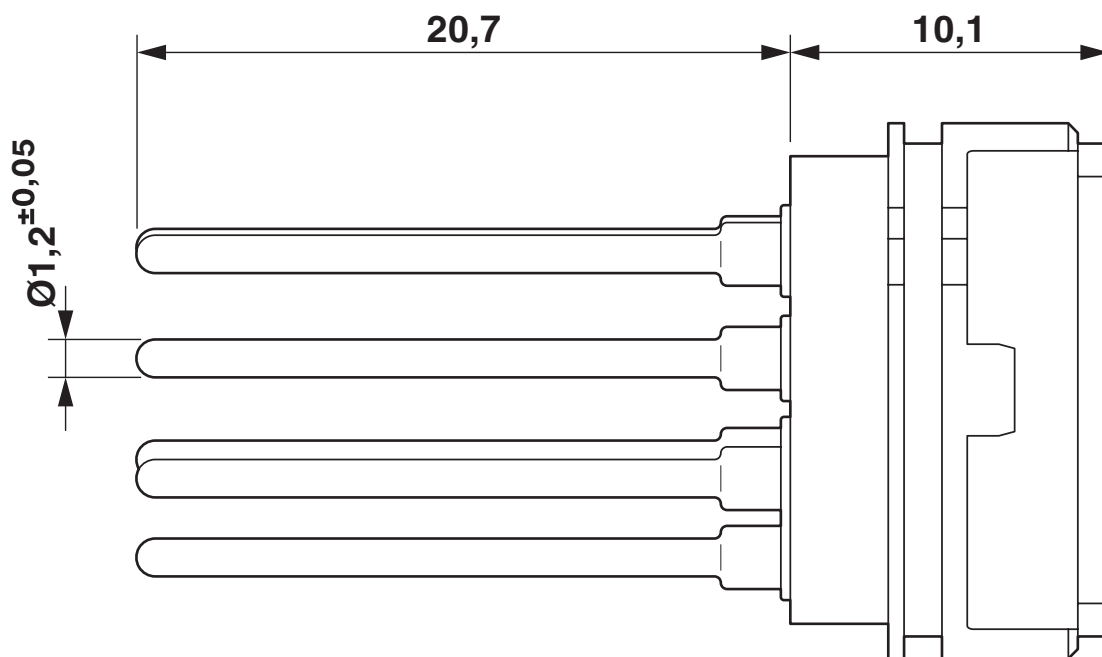
## Environmental and real-life conditions

### Ambient conditions

|                      |      |
|----------------------|------|
| Degree of protection | IP67 |
|----------------------|------|

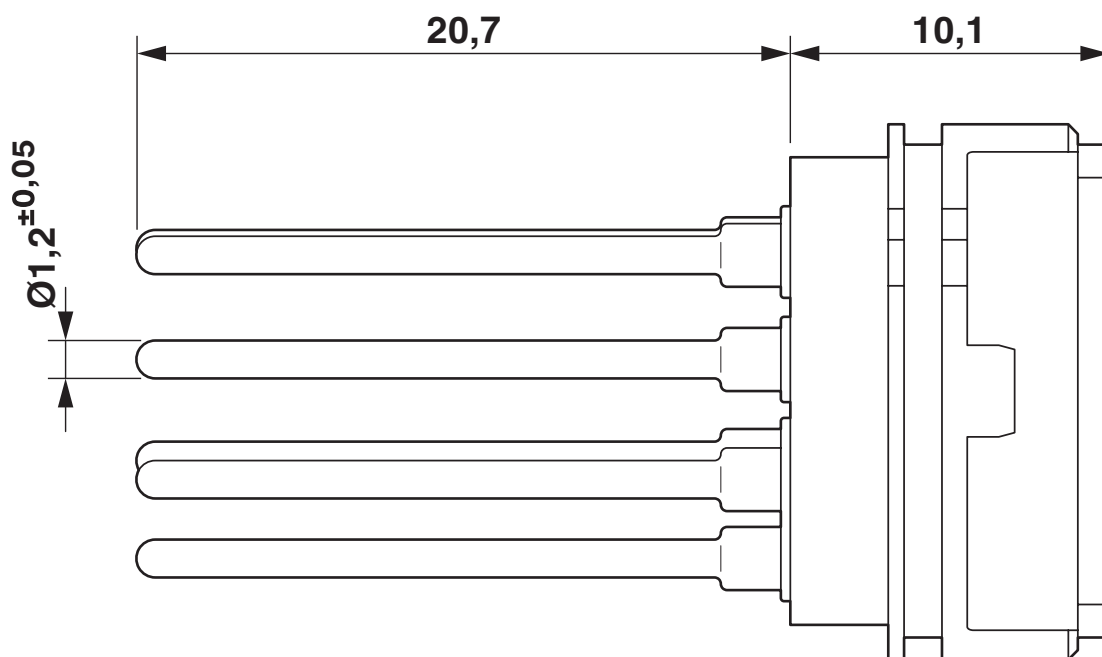
## Drawings

Dimensional drawing



Dimensional drawing

Dimensional drawing



Dimensional drawing

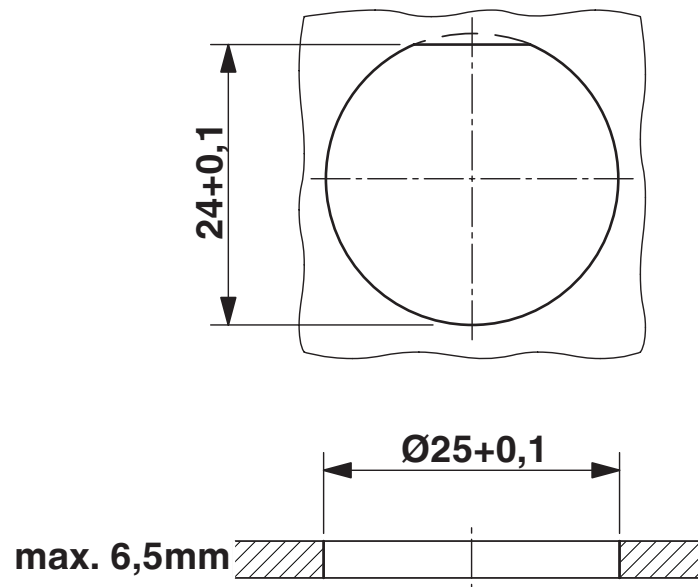
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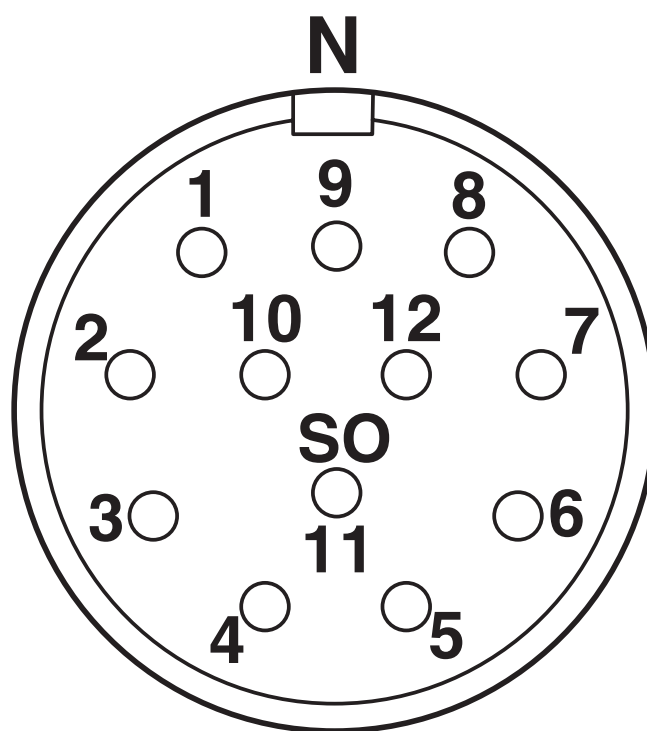


Dimensional drawing



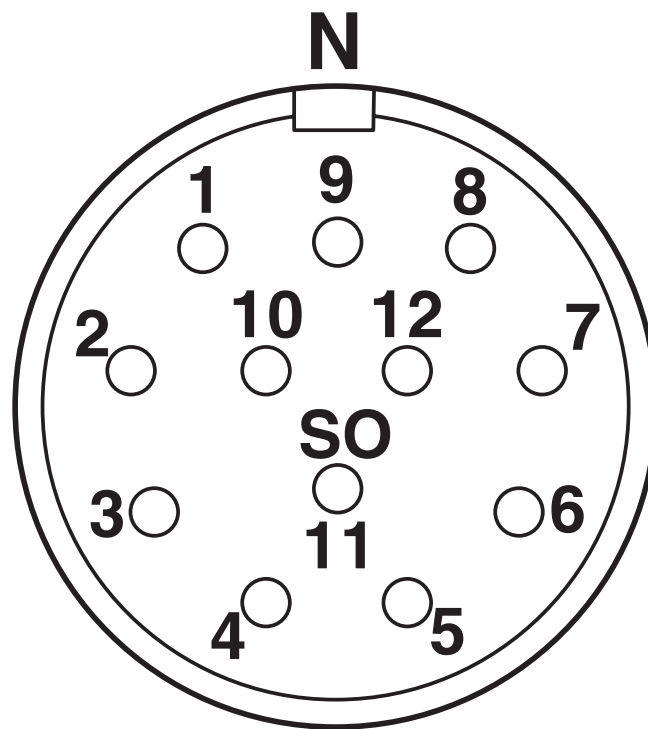
Installation dimensions

Schematic diagram



Connector pin assignment

Schematic diagram



Connector pin assignment

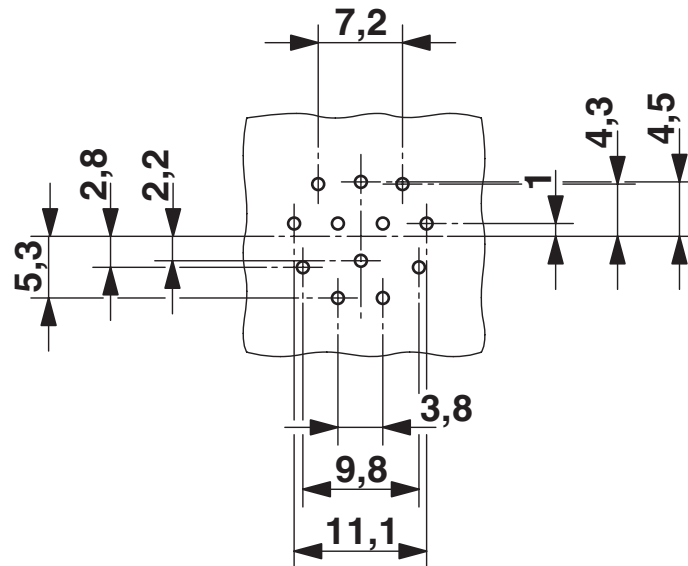
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Drilling plan/solder pad geometry



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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27440109 |
| ECLASS-15.0 | 27440109 |

### ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | EC003569 |
|----------|----------|

### 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                                | 0107266a-ffc5-4f0c-8cd0-fa12a630890f |

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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)