

# RF-12S2N8A8002 - Cable connector



1607295

<https://www.phoenixcontact.com/nl/products/1607295>

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The figure shows the product version with standard contact chamber numbering

Cable connector, straight, Screw locking mechanism, M23, number of positions: 12, contact connection type: Socket, shielded: yes, degree of protection: IP67, cable diameter range: 6 mm ... 10 mm, number of positions: 12, connection method: Crimp connection, series: RF, This product is in the process of being discontinued. This product must no longer be considered for new projects. Please contact your sales representative for alternatives. Alternative products: 1069311

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1607295       |
| Packing unit                         | 20 pc         |
| Minimum order quantity               | 20 pc         |
| Sales key                            | ABRAGA        |
| Product key                          | ABRAGA        |
| GTIN                                 | 4046356268714 |
| Weight per piece (including packing) | 98,565 g      |
| Weight per piece (excluding packing) | 92,05 g       |
| Customs tariff number                | 85366990      |
| Country of origin                    | DE            |

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## Technical data

### Notes

|                    |                                        |
|--------------------|----------------------------------------|
| Order information: | Order crimp contacts Ø 1 mm separately |
|--------------------|----------------------------------------|

### Product properties

|                     |                  |
|---------------------|------------------|
| Series              | RF               |
| Application         | Feedback, signal |
| Number of positions | 12               |
| Connection profile  | 12               |
| Shielded            | yes              |
| Coding              | N                |
| Thread type         | M23              |

### Material specifications

|                          |              |
|--------------------------|--------------|
| Material Housing         | GD-Zn        |
| Material Rotating parts  | CuZn         |
| Material Housing surface | Ni           |
| Material Insulating body | PA 6.6       |
| Material Seal            | FPM (O-ring) |

### Connection data

#### Conductor connection

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

### Electrical properties

#### Contact

|                       |         |
|-----------------------|---------|
| Contact diameter      | 1 mm    |
| Nominal current $I_N$ | 8 A     |
| Nominal voltage $U_N$ | 48 V AC |
|                       | 74 V DC |
| Overvoltage category  | III     |
| Degree of pollution   | 3       |
| Rated surge voltage   | 1.5 kV  |

### Connector

|                       |                   |
|-----------------------|-------------------|
| Type                  | straight          |
| Direction of rotation | Counter direction |

#### Connection 1

|                   |          |
|-------------------|----------|
| Head design       | Socket   |
| Head cable outlet | straight |
| Head thread type  | M23      |

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## Cable/line

|                         |                |
|-------------------------|----------------|
| External cable diameter | 6 mm ... 10 mm |
|-------------------------|----------------|

## Environmental and real-life conditions

### Ambient conditions

|                                 |                   |
|---------------------------------|-------------------|
| Degree of protection            | IP67              |
| Ambient temperature (operation) | -20 °C ... 125 °C |
| Altitude                        | 2000 m            |

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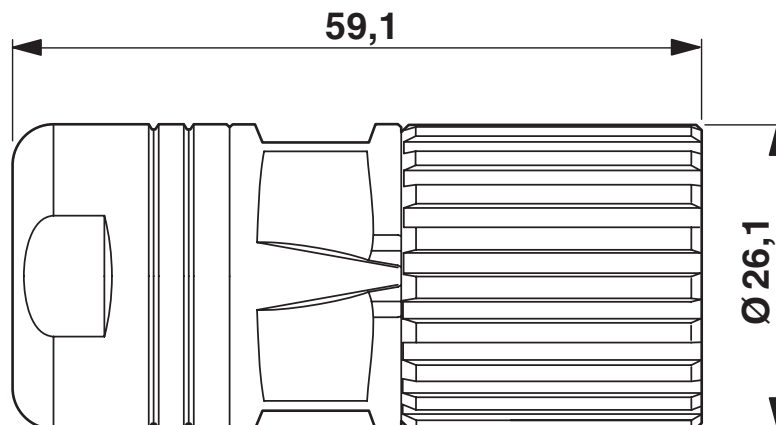
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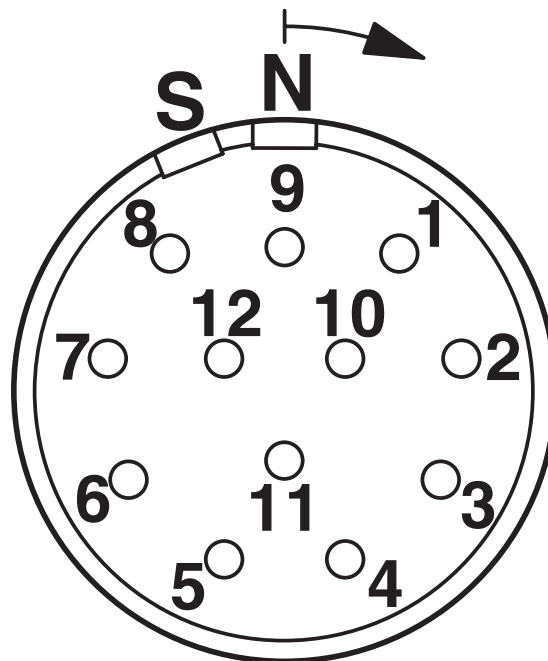
## Drawings

Dimensional drawing



Dimensional drawing

Schematic diagram



Connector pin assignment

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/nl/products/1607295>

|  <b>cUL Recognized</b><br>Approval ID: E153698-20090723 |                       |                       |                   |                             |
|------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
|                                                                                                                                          | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| keine                                                                                                                                    |                       |                       |                   |                             |
|                                                                                                                                          | 48 V                  | 5 A                   | 20                | -                           |

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27440116 |
| ECLASS-15.0 | 27440116 |

### ETIM

|           |          |
|-----------|----------|
| ETIM 10.0 | EC002635 |
|-----------|----------|

### 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                                | f58a170e-171b-4e9e-919b-e2533b59d024 |

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