

# UC-19S1N12R3DU - Cable connector



1606701

<https://www.phoenixcontact.com/us/products/1606701>

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M23, Cable connector, application: Signal, series: UC, straight, shielded: yes, Screw locking mechanism, No. of pos.: 16+3, Direction of rotation: Standard, contact connection type: Socket, Solder cup, cable diameter range: 2 mm ... 14.5 mm, coding: N. 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.

The figure shows the 12-pos.  
product version

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1606701       |
| Packing unit                         | 20 pc         |
| Minimum order quantity               | 1 pc          |
| Sales key                            | AB31          |
| Product key                          | ABRAIA        |
| GTIN                                 | 4046356261296 |
| Weight per piece (including packing) | 128.6 g       |
| Weight per piece (excluding packing) | 111.998 g     |
| Customs tariff number                | 85366990      |
| Country of origin                    | DE            |

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## Technical data

### Product properties

|              |                                 |
|--------------|---------------------------------|
| Product type | Circular connector (cable-side) |
|--------------|---------------------------------|

### Connector

#### Insulating body

|   |  |
|---|--|
| Coding  | N  |
| Material (Insulating body)                      | PA 6.6                                   |
| Material (Contact)                              | CuZn                                     |
| Material (Contact surface)                      | Ni/Au                                    |
| Insertion/withdrawal cycles                     | 100                                      |
| Connection method                               | Solder cup                               |
| Contact switching type                          | Socket                                   |
| Application                                     | Signal                                   |
| Number of positions                             | 19                                       |
| Direction of rotation                           | Standard                                 |
| Connection profile                              | 16+3                                     |
| Number (Contact group 1)                        | 3  |
| Contact diameter (Contact group 1)              | 1.5 mm                                   |
| Litz wires Min. cross section (Contact group 1) | 0.08 mm <sup>2</sup>                     |
| Litz wires Max. cross section (Contact group 1) | 1 mm <sup>2</sup>                        |
| Rated current Contact (Contact group 1)         | 10 A (for max. connection cross section) |
| Rated voltage Contact (Contact group 1)         | 48 V AC<br>74 V DC                       |
| Rated surge voltage                             | 1.5 kV                                   |
| Overvoltage category                            | III                                      |
| Degree of pollution                             | 3  |
| Number (Contact group 2)                        | 16                                       |
| Contact diameter (Contact group 2)              | 1 mm                                     |
| Litz wires Max. cross section (Contact group 2) | 1 mm <sup>2</sup>                        |
| Rated current Contact (Contact group 2)         | 8 A                                      |
| Number (Contact group 3)                        | 1  |
| Contact diameter (Contact group 3)              | 1.5 mm                                   |
| Rated current Contact (Contact group 3)         | 8 A                                      |

#### Housing

|                     |                         |
|---------------------|-------------------------|
| Type                | Cable connector housing |
| Thread type         | M23                     |
| Design              | straight                |
| Type of locking     | Screw locking mechanism |
| Pg screw connection | Pg13,5                  |
| Material (Housing)  | GD-Zn                   |

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|                                   |              |
|-----------------------------------|--------------|
| Material (Rotating parts)         | CuZn         |
| Material (Housing surface)        | Ni           |
| Material (Seal)                   | FPM (O-ring) |
| Degree of protection (plugged in) | IP67         |

## Seal

|                         |                  |
|-------------------------|------------------|
| External cable diameter | 2 mm ... 14.5 mm |
| Seal material           | NBR              |

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## Drawings

Schematic diagram



Connector pin assignment

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Schematic diagram



Connector pin assignment

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Schematic diagram



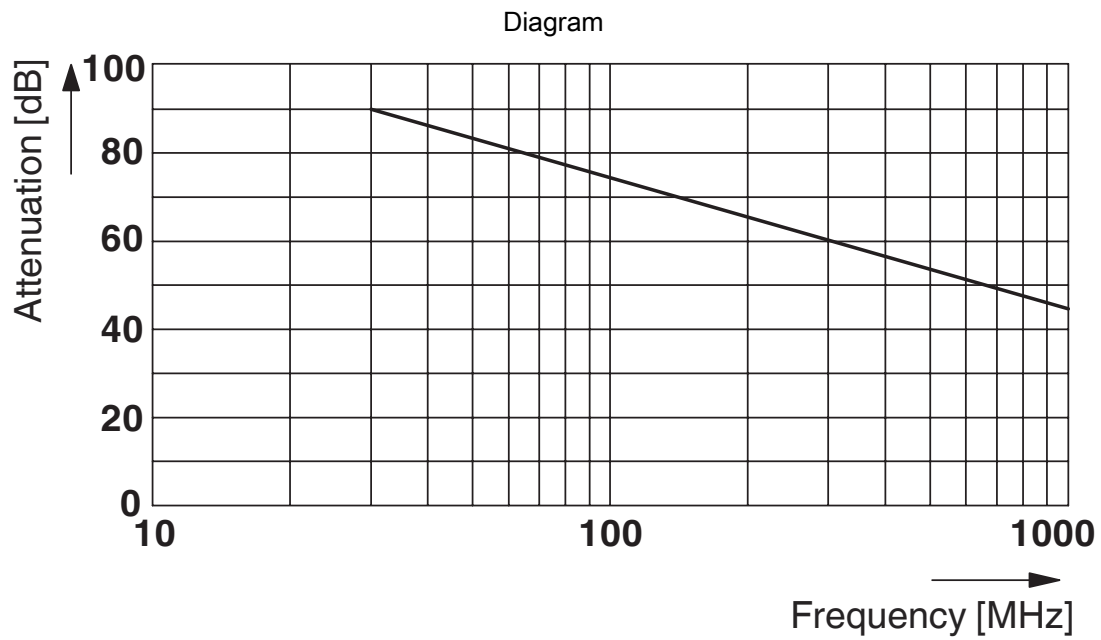
Dimensional drawing

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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                                | 9b3f5bf4-79b5-46a1-a350-d72211adbca6 |

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