

# RC-19S1N121L00 - Cable connector



1602783

<https://www.phoenixcontact.com/nl/products/1602783>

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The figure shows the 12-pos. product version, with standard DIN cable gland

M23, Cable connector, series: RC, straight, shielded: no, Screw locking mechanism, No. of pos.: 16+3, Direction of rotation: Standard, contact connection type: Socket, Solder cup, 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. Alternative products: 1341235

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1602783       |
| Packing unit                         | 20 pc         |
| Minimum order quantity               | 1 pc          |
| Sales key                            | ABRAFA        |
| Product key                          | ABRAFA        |
| GTIN                                 | 4046356241564 |
| Weight per piece (including packing) | 100,963 g     |
| Weight per piece (excluding packing) | 95,757 g      |
| Customs tariff number                | 85366990      |
| Country of origin                    | DE            |

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## Technical data

### Product properties

|                              |            |
|------------------------------|------------|
| Type of the screw connection | IP68 screw |
| Thread type                  | M23        |

### Material specifications

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

### Mechanical properties

#### Mechanical data

|                              |            |
|------------------------------|------------|
| Type of the screw connection | IP68 screw |
|------------------------------|------------|

### 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 (Contact group 1)                       | 3                                        |
| Diameter Contact (Contact group 1)                     | 1.5 mm                                   |
| Litz wire cross-section min. Contact (Contact group 1) | 0.08 mm <sup>2</sup>                     |
| Litz wire cross-section max. Contact (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 (Contact group 2)                       | 16                                       |
| Diameter Contact (Contact group 2)                     | 1 mm                                     |
| Litz wire cross-section min. Contact (Contact group 2) | 0.08 mm <sup>2</sup>                     |
| Litz wire cross-section max. Contact (Contact group 2) | 1 mm <sup>2</sup>                        |
| Rated current Contact (Contact group 2)                | 8 A                                      |
| Number Contact (Contact group 3)                       | 1                                        |

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|                                         |        |
|-----------------------------------------|--------|
| Diameter Contact (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               | none                    |
| Material (Housing)                | GD-Zn                   |
| Material (Housing surface)        | Ni                      |
| Material (Rotating parts)         | CuZn                    |
| Degree of protection (plugged in) | IP65                    |
|                                   | IP67                    |

## Environmental and real-life conditions

### Ambient conditions

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

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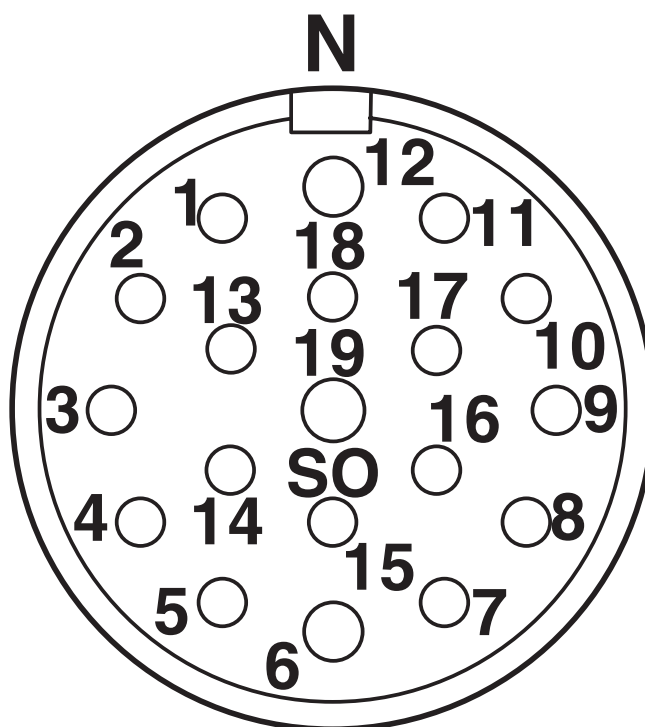
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## Drawings

Schematic diagram



Connector pin assignment

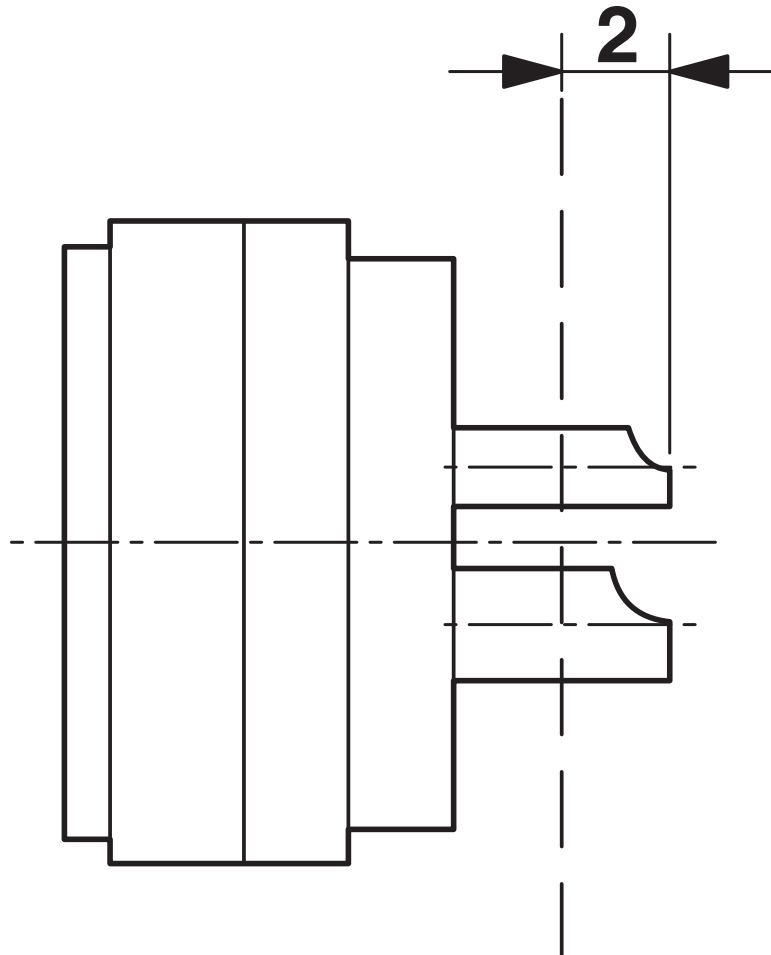
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Schematic diagram



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                                | a71ff5bd-9f66-4621-810c-7371e6bc16ea |

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PHOENIX CONTACT B.V.  
Hengelder 56 6902 PA Zevenaar  
Postbus 246 6900 AE Zevenaar  
(0316) 59 17 20  
[sales@phoenixcontact.nl](mailto:sales@phoenixcontact.nl)