

# RC-17S1N12K0EF - Cable connector



1616695

<https://www.phoenixcontact.com/us/products/1616695>

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The figure shows the 12-pos.  
product version

M23, Cable connector, application: Signal, series: RC, straight plastic-sheathed, shielded: yes, Screw locking mechanism, No. of pos.: 17, Direction of rotation: Standard, contact connection type: Socket, Solder cup, cable diameter range: 5.5 mm ... 6.5 mm, coding: N

## Commercial data

|                                      |                                |
|--------------------------------------|--------------------------------|
| Item number                          | 1616695                        |
| Packing unit                         | 20 pc                          |
| Minimum order quantity               | 1 pc                           |
| Note                                 | Made to order (non-returnable) |
| Product key                          | ABRAFA                         |
| GTIN                                 | 4046356982412                  |
| Weight per piece (including packing) | 50.8 g                         |
| Weight per piece (excluding packing) | 50.8 g                         |
| 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)                      | PBT                                     |
| Material (Contact)                              | CuZn                                    |
| Material (Contact surface)                      | Ni/Au                                   |
| Insertion/withdrawal cycles                     | 50                                      |
| Connection method                               | Solder cup                              |
| Contact switching type                          | Socket                                  |
| Application                                     | Signal                                  |
| Number of positions                             | 17                                      |
| Direction of rotation                           | Standard                                |
| Connection profile                              | 17                                      |
| Number (Contact group 1)                        | 17                                      |
| Contact diameter (Contact group 1)              | 1 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)         | 8 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                                       |

#### Housing

|                                   |                           |
|-----------------------------------|---------------------------|
| Type                              | Cable connector housing   |
| Thread type                       | M23                       |
| Design                            | straight plastic-sheathed |
| Type of locking                   | Screw locking mechanism   |
| Pg screw connection               | none                      |
| Material (Housing)                | GD-Zn                     |
| Material (Rotating parts)         | CuZn                      |
| Degree of protection (plugged in) | IP67                      |

#### Seal

|                         |                   |
|-------------------------|-------------------|
| External cable diameter | 5.5 mm ... 6.5 mm |
| Seal material           | NBR               |

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## Drawings

Schematic diagram



Connector pin assignment

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Schematic diagram



Dimensional drawing

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## Classifications

### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 21.0 | 39121413 |
|-------------|----------|

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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.) | No substance above 0.1 wt% |
|-------------------------------------|----------------------------|

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