

# RC-63P1N1290EN - Coupler connector



1603595

<https://www.phoenixcontact.com/us/products/1603595>

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The figure shows the 12-pos.  
product version

M23, Coupler connector, application: Signal, series: RC, straight, shielded: yes, Screw locking mechanism, No. of pos.: 6+3, Direction of rotation: Standard, contact connection type: Pin, Solder cup, cable diameter range: 3 mm ... 10.5 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.

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1603595       |
| Packing unit                         | 20 pc         |
| Minimum order quantity               | 1 pc          |
| Sales key                            | AB31          |
| Product key                          | ABRAFG        |
| GTIN                                 | 4046356246217 |
| Weight per piece (including packing) | 76.49 g       |
| Weight per piece (excluding packing) | 72.509 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)                      | PBT                                      |
| Material (Contact)                              | CuZn                                     |
| Material (Contact surface)                      | Ni/Au                                    |
| Insertion/withdrawal cycles                     | 50                                       |
| Connection method                               | Solder cup                               |
| Contact switching type                          | Pin                                      |
| Application                                     | Signal                                   |
| Number of positions                             | 9  |
| Direction of rotation                           | Standard                                 |
| Connection profile                              | 6+3                                      |
| Number (Contact group 1)                        | 3  |
| Contact diameter (Contact group 1)              | 2 mm                                     |
| Litz wires Min. cross section (Contact group 1) | 0.08 mm <sup>2</sup>                     |
| Litz wires Max. cross section (Contact group 1) | 2.5 mm <sup>2</sup>                      |
| Rated current Contact (Contact group 1)         | 20 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)                        | 6  |
| 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                                      |

#### Housing

|                                   |                         |
|-----------------------------------|-------------------------|
| Type                              | Coupling 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) | IP67                    |

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## Seal

|                         |                  |
|-------------------------|------------------|
| External cable diameter | 3 mm ... 10.5 mm |
| Seal material           | NBR              |

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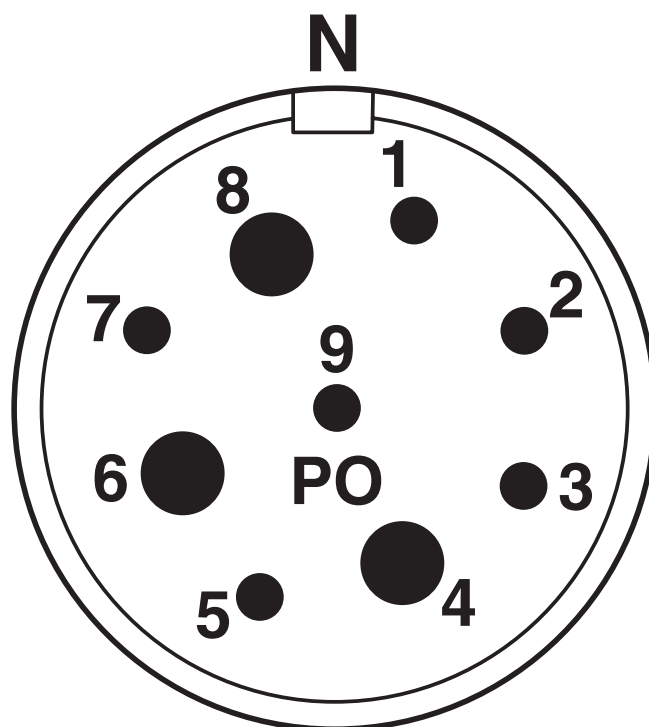


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## Drawings

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                                | 8dad8476-37b1-4d70-a53e-0b7f74136b3f |

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