

# RC-63P1N1290ENX - Coupler connector



1241649

<https://www.phoenixcontact.com/us/products/1241649>

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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, Item is lead-free in accordance with RoHS II without Exemption 6c (Pb < 0.1 %). 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                          | 1241649       |
| Packing unit                         | 20 pc         |
| Minimum order quantity               | 1 pc          |
| Product key                          | ABRAFG        |
| GTIN                                 | 4063151442804 |
| Weight per piece (including packing) | 75.3 g        |
| Weight per piece (excluding packing) | 71.199 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                          | 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                                  |
|                                                 | 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              |

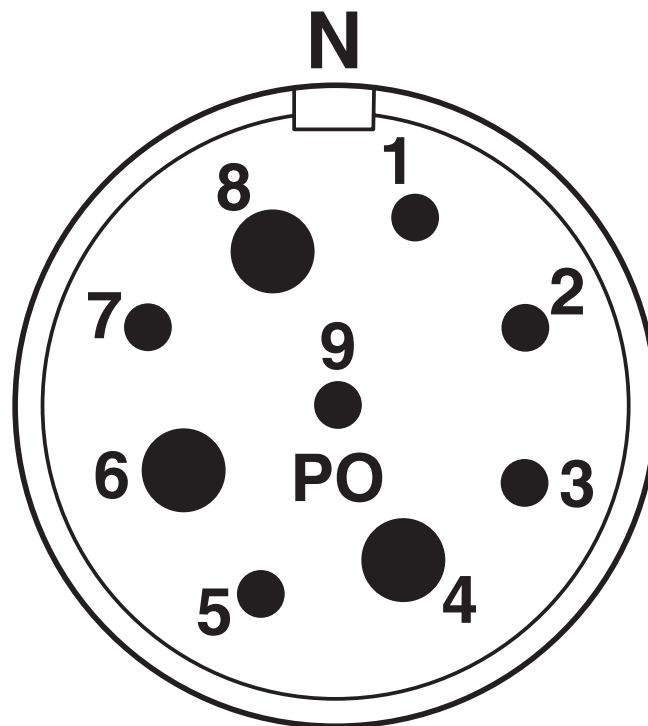
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## Drawings

Schematic diagram



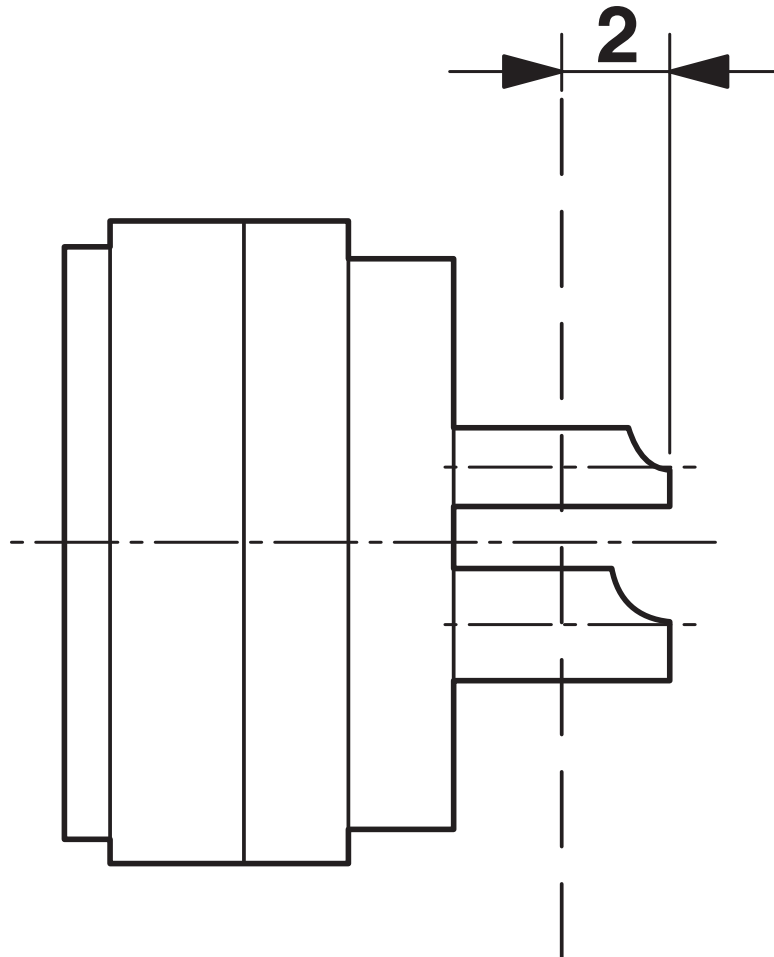
Connector pin assignment

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Schematic diagram



Dimensional drawing

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## Approvals

🔗 To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1241649>



**EAC**

Approval ID: 19060508

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## Classifications

### ECLASS

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

### ETIM

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

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## Environmental product compliance

### EU RoHS

|                                         |                    |
|-----------------------------------------|--------------------|
| Fulfills EU RoHS substance requirements | Yes, No exemptions |
|-----------------------------------------|--------------------|

### China RoHS

|                                        |                                          |
|----------------------------------------|------------------------------------------|
| Environment friendly use period (EFUP) | EFUP-E                                   |
|                                        | No hazardous substances above the limits |

### EU REACH SVHC

|                                     |                            |
|-------------------------------------|----------------------------|
| REACH candidate substance (CAS No.) | No substance above 0.1 wt% |
|-------------------------------------|----------------------------|

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Phoenix Contact USA  
586 Fulling Mill Road  
Middletown, PA 17057, United States  
(+717) 944-1300  
[info@phoenixcon.com](mailto:info@phoenixcon.com)