

# RC-12P2N1290EF - Coupler connector



1610765

<https://www.phoenixcontact.com/us/products/1610765>

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M23, Coupler connector, application: Signal, series: RC, straight, shielded: yes, Screw locking mechanism, No. of pos.: 12, Direction of rotation: Counter direction, contact connection type: Pin, Solder cup, cable diameter range: 5.5 mm ... 6.5 mm, coding: N

## Commercial data

|                                      |                                |
|--------------------------------------|--------------------------------|
| Item number                          | 1610765                        |
| Packing unit                         | 20 pc                          |
| Minimum order quantity               | 1 pc                           |
| Note                                 | Made to order (non-returnable) |
| Product key                          | ABRAFG                         |
| GTIN                                 | 4046356392648                  |
| Weight per piece (including packing) | 71.61 g                        |
| Weight per piece (excluding packing) | 71.61 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                             | 12                                      |
| Direction of rotation                           | Counter direction                       |
| Connection profile                              | 12                                      |
| Number (Contact group 1)                        | 12                                      |
| 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                              | 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                    |

#### Seal

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

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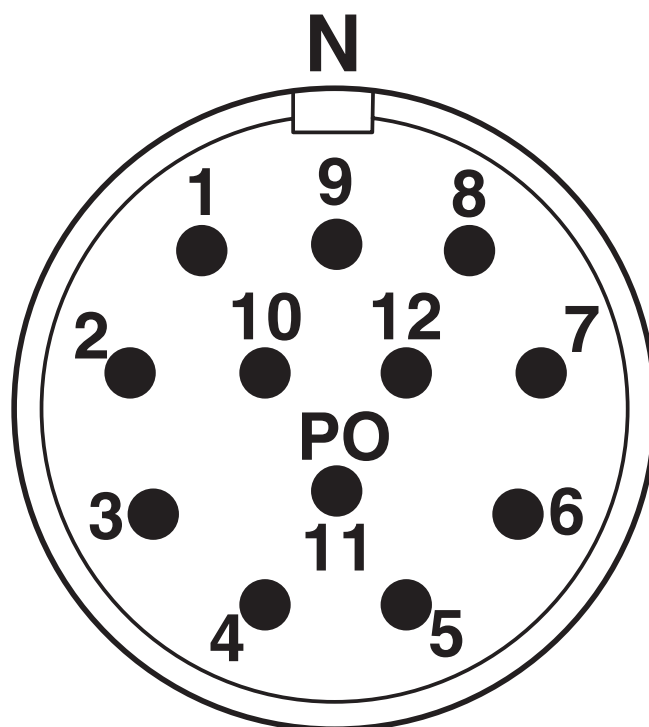


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## Drawings

Schematic diagram



Connector pin assignment

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Schematic diagram



Technical drawings can be found under Downloads

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## Environmental product compliance

### 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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