

# RC-12P1N1277X8 - Coupler connector



1596958

<https://www.phoenixcontact.com/us/products/1596958>

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



M23, Coupler connector, application: Signal, series: RC, straight, shielded: no, Screw locking mechanism, No. of pos.: 12, Direction of rotation: Standard, contact connection type: Pin, 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.

## Commercial data

|                                      |                                |
|--------------------------------------|--------------------------------|
| Item number                          | 1596958                        |
| Packing unit                         | 20 pc                          |
| Minimum order quantity               | 1 pc                           |
| Note                                 | Made to order (non-returnable) |
| Product key                          | ABRAFG                         |
| GTIN                                 | 4046356213622                  |
| Weight per piece (including packing) | 85.66 g                        |
| Weight per piece (excluding packing) | 81.44 g                        |
| Country of origin                    | DE                             |

# RC-12P1N1277X8 - Coupler connector



1596958

<https://www.phoenixcontact.com/us/products/1596958>

## Technical data

### Product properties

|              |                                 |
|--------------|---------------------------------|
| Product type | Circular connector (cable-side) |
| Thread type  | M23                             |

### Material specifications

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

### Connector

#### Insulating body

|   |   |
|---|---|
| Coding  | N                                       |
| Material (Insulating body)                      | PBT                                     |
| Material (Contact)                              | CuZn                                    |
| Material (Contact surface)                      | Ni/Au                                   |
| Insertion/withdrawal cycles                     | 100                                     |
| Connection method                               | Solder cup                              |
| Contact switching type                          | Pin                                     |
| Application                                     | Signal                                  |
| Number of positions                             | 12                                      |
| Direction of rotation                           | Standard                                |
| 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        | Pg13,5                  |
| Material (Housing)         | GD-Zn                   |
| Material (Housing surface) | Ni                      |
| Material (Rotating parts)  | CuZn                    |
|                            | IP65                    |

# RC-12P1N1277X8 - Coupler connector



1596958

<https://www.phoenixcontact.com/us/products/1596958>

|                                   |      |
|-----------------------------------|------|
| Degree of protection (plugged in) | IP67 |
|                                   | IP68 |

## Environmental and real-life conditions

### Ambient conditions

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

# RC-12P1N1277X8 - Coupler connector

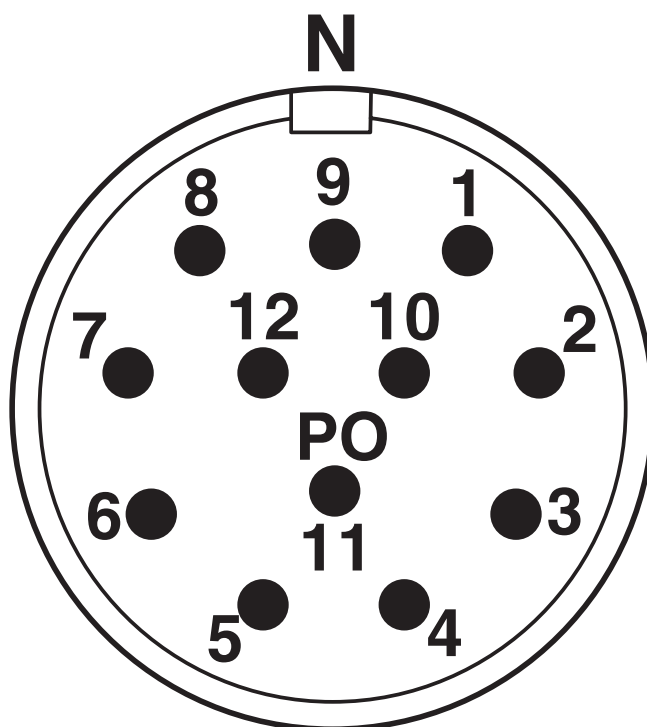


1596958

<https://www.phoenixcontact.com/us/products/1596958>

## Drawings

Schematic diagram



Connector pin assignment

# RC-12P1N1277X8 - Coupler connector

1596958

<https://www.phoenixcontact.com/us/products/1596958>

Schematic diagram



Dimensional drawing

# RC-12P1N1277X8 - Coupler connector



1596958

<https://www.phoenixcontact.com/us/products/1596958>

## Classifications

### ECLASS

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

### ETIM

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

### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 21.0 | 39121400 |
|-------------|----------|

# RC-12P1N1277X8 - Coupler connector



1596958

<https://www.phoenixcontact.com/us/products/1596958>

## 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                                | 2675d3bb-74d5-413c-b87e-e1ac4cd3481c |

Phoenix Contact 2026 © - all rights reserved

<https://www.phoenixcontact.com>

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