

# UC-1RP1NRA90DU - Coupler connector



1606714

<https://www.phoenixcontact.com/us/products/1606714>

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M23, Coupler connector, application: Signal, series: UC, straight, shielded: yes, Screw locking mechanism, No. of pos.: 16+2+FE, Direction of rotation: Standard, contact connection type: Pin, Crimp connection, cable diameter range: 2 mm ... 14.5 mm, coding: N

The figure shows the 12-pos. product version

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1606714       |
| Packing unit                         | 20 pc         |
| Minimum order quantity               | 1 pc          |
| Product key                          | ABRAIG        |
| GTIN                                 | 4046356261395 |
| Weight per piece (including packing) | 96.405 g      |
| Weight per piece (excluding packing) | 96.405 g      |
| Country of origin                    | DE            |

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## Technical data

### Product properties

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

### Connector

#### Insulating body

|                                         |                                                                                              |
|-----------------------------------------|----------------------------------------------------------------------------------------------|
| Note                                    | Order information: Order crimp contacts 16 x Ø 1 mm, 2 x Ø 1.5 mm, 1 x Ø 1.5 (PE) separately |
| Coding                                  | N                                                                                            |
| Material (Insulating body)              | PA 6.6                                                                                       |
| Connection method                       | Crimp connection                                                                             |
| Contact switching type                  | Pin                                                                                          |
| Application                             | Signal                                                                                       |
| Number of positions                     | 19                                                                                           |
| Direction of rotation                   | Standard                                                                                     |
| Connection profile                      | 16+2+FE                                                                                      |
| Number (Contact group 1)                | 3                                                                                            |
| Contact diameter (Contact group 1)      | 1.5 mm                                                                                       |
| Rated current Contact (Contact group 1) | 10 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)                | 16                                                                                           |
| Contact diameter (Contact group 2)      | 1 mm                                                                                         |
| Rated current Contact (Contact group 2) | 8 A                                                                                          |
| Rated voltage Contact (Contact group 2) | 48 V AC                                                                                      |
|                                         | 48 V AC                                                                                      |

#### 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                    |
| Seal material                     | FPM or NBR or EPDM      |
| Degree of protection (plugged in) | IP67                    |

#### Seal

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|                         |                  |
|-------------------------|------------------|
| External cable diameter | 2 mm ... 14.5 mm |
| Seal material           | NBR              |

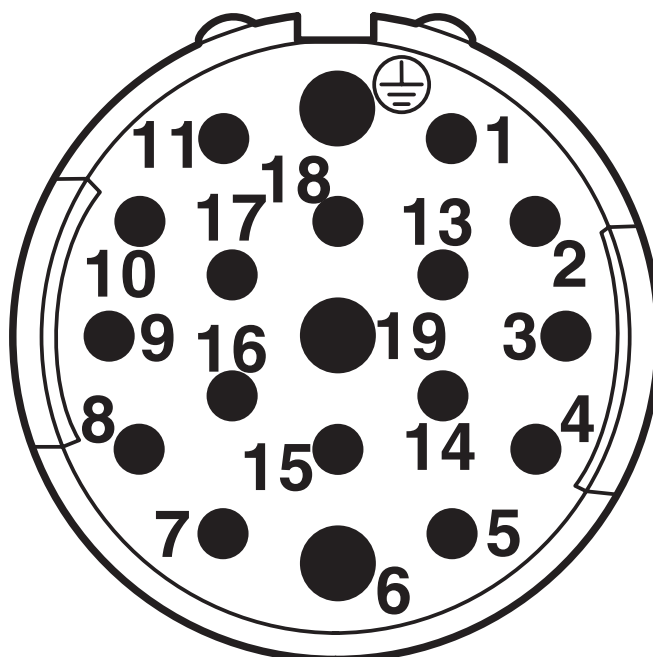
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## Drawings

Schematic diagram



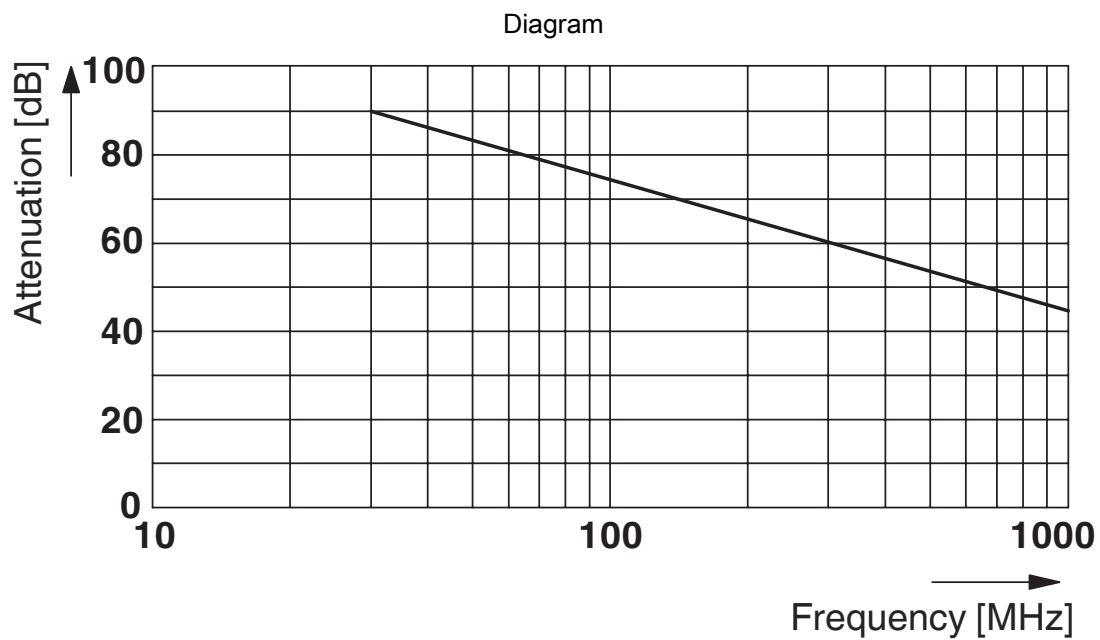
Connector pin assignment

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## Classifications

### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 21.0 | 39121409 |
|-------------|----------|

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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) |
|-------------------------------------|----------------------|

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