

# RC-12P1N1280Q9 - Cable connector



1597059

<https://www.phoenixcontact.com/us/products/1597059>

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M23, Cable connector, straight, Screw locking mechanism, No. of pos.: 12, Direction of rotation: Standard, contact connection type: Pin, Solder cup, cable diameter range: 9.5 mm ... 10.5 mm, coding: N

## Commercial data

|                                      |                                |
|--------------------------------------|--------------------------------|
| Item number                          | 1597059                        |
| Packing unit                         | 20 pc                          |
| Minimum order quantity               | 1 pc                           |
| Note                                 | Made to order (non-returnable) |
| Product key                          | ABRAFA                         |
| GTIN                                 | 4046356214179                  |
| Weight per piece (including packing) | 70.76 g                        |
| Weight per piece (excluding packing) | 70.76 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                            | 100                                     |
| Connection method                                      | Solder cup                              |
| Contact switching type                                 | Pin                                     |
| Application                                            | Signal                                  |
| Number of positions                                    | 12                                      |
| Direction of rotation                                  | Standard                                |
| Connection profile                                     | 12                                      |
| Number Contact (Contact group 1)                       | 12                                      |
| Diameter Contact (Contact group 1)                     | 1 mm                                    |
| Litz wire cross-section min. Contact (Contact group 1) | 0.08 mm <sup>2</sup>                    |
| Litz wire cross-section max. Contact (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                                 |
|                                                        | 74 V DC                                 |
| Rated surge voltage                                    | 1.5 kV                                  |
| Overvoltage category                                   | III                                     |
| Degree of pollution                                    | 3                                       |

#### Housing

|                                   |                                  |
|-----------------------------------|----------------------------------|
| Note                              | Order contact inserts separately |
| Type                              | Cable connector housing          |
| Thread type                       | M23                              |
| Design                            | straight                         |
| Type of locking                   | Screw locking mechanism          |
| Pg screw connection               | none                             |
| Material (Housing)                | Metal                            |
| Degree of protection (plugged in) | IP65                             |
|                                   | IP67                             |
|                                   | IP68                             |

#### Seal

|                         |                    |
|-------------------------|--------------------|
| External cable diameter | 9.5 mm ... 10.5 mm |
|-------------------------|--------------------|

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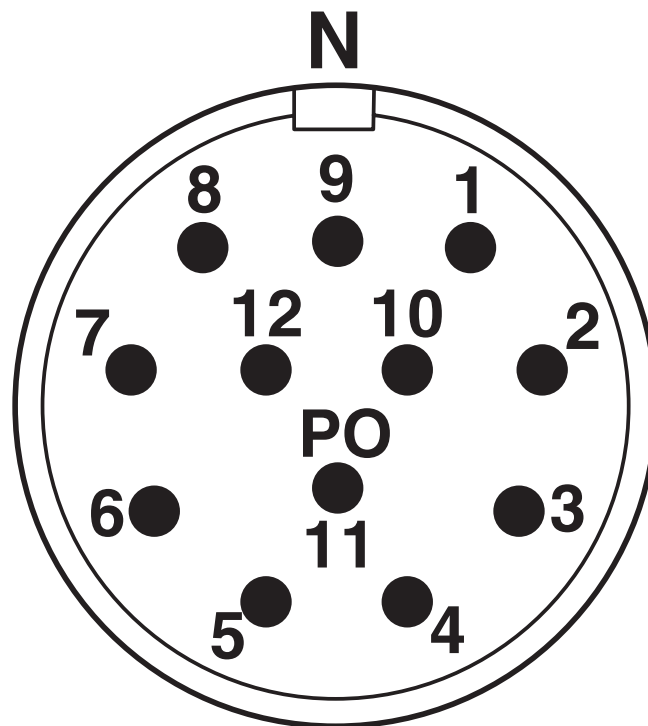
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## Drawings

Schematic diagram



Connector pin assignment

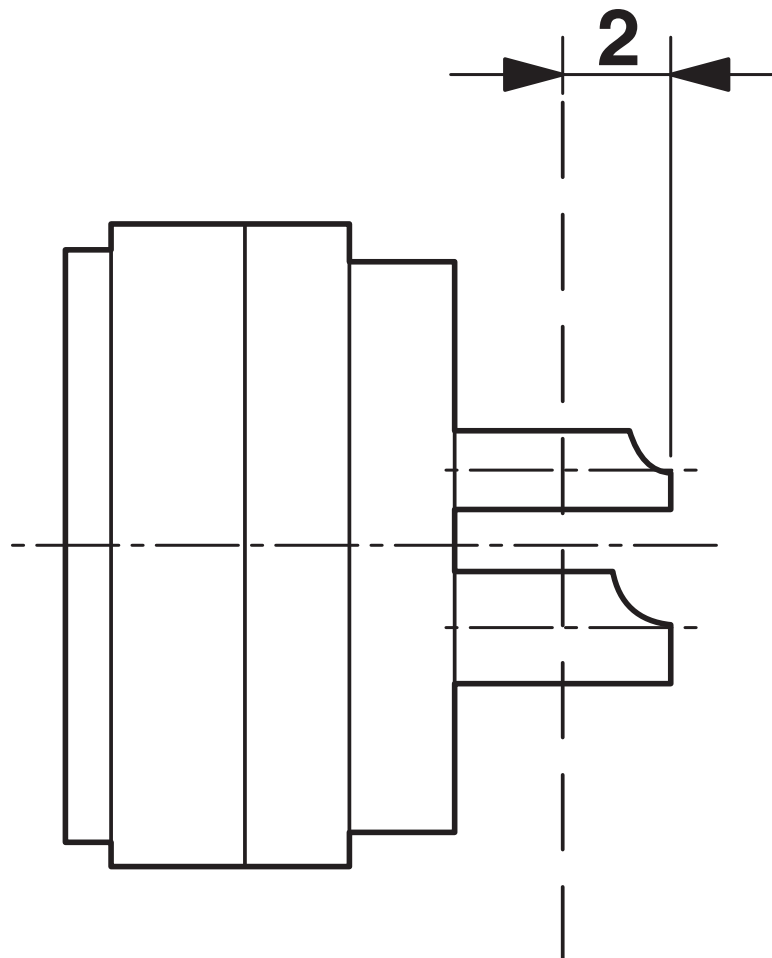
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Schematic diagram



Dimensional drawing

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