

# RC-09P1N128049 - Cable connector

1594978

<https://www.phoenixcontact.com/pc/products/1594978>



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M23, Cable connector, straight, shielded: no, Screw locking mechanism, No. of pos.: 8+1, Direction of rotation: Standard, contact connection type: Pin, Solder cup, cable diameter range: 6.5 mm ... 7.5 mm, coding: N, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1240571

## Commercial data

|                                      |                                |
|--------------------------------------|--------------------------------|
| Item number                          | 1594978                        |
| Packing unit                         | 20 pc                          |
| Minimum order quantity               | 1 pc                           |
| Note                                 | Made to order (non-returnable) |
| Product key                          | ABRAFA                         |
| GTIN                                 | 4046356204514                  |
| Weight per piece (including packing) | 76.97 g                        |
| Weight per piece (excluding packing) | 76.9 g                         |
| Customs tariff number                | 85366990                       |
| Country of origin                    | DE                             |

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## Technical data

### Product properties

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

### Connector

#### Insulating body

|                                                     |                      |
|-----------------------------------------------------|----------------------|
| Coding                                              | N                    |
| Insertion/withdrawal cycles                         | 50                   |
| Connection method                                   | Solder cup           |
| Contact switching type                              | Pin                  |
| Application                                         | Signal               |
| Number of positions                                 | 9                    |
| Direction of rotation                               | Standard             |
| Connection profile                                  | 8+1                  |
| Contact diameter <b>Power contacts</b>              | 2 mm                 |
| Litz wire cross-section <b>Power contacts</b> min.  | 0.08 mm <sup>2</sup> |
| Litz wire cross-section <b>Power contacts</b> max.  | 2.5 mm <sup>2</sup>  |
| Rated current <b>Power contacts</b>                 | 20 A                 |
| Rated voltage                                       | 48 V AC              |
|                                                     | 74 V DC              |
| Rated surge voltage                                 | 1.5 kV               |
| Overvoltage category                                | III                  |
| Degree of pollution                                 | 3                    |
| Contact diameter <b>Signal contacts</b>             | 1 mm                 |
| Litz wire cross-section <b>Signal contacts</b> min. | 0.08 mm <sup>2</sup> |
| Litz wire cross-section <b>Signal contacts</b> max. | 1 mm <sup>2</sup>    |
| Nominal current per signal contact                  | 8 A                  |

#### Housing

|                                   |                                  |
|-----------------------------------|----------------------------------|
| Order information:                | Order contact inserts separately |
| Housing material                  | Metal                            |
| Type of locking                   | Screw locking mechanism          |
| Pg screw connection               | none                             |
| Degree of protection (plugged in) | IP65                             |
|                                   | IP67                             |
|                                   | IP68                             |
| Thread type                       | M23                              |

#### Seal

|                         |                   |
|-------------------------|-------------------|
| External cable diameter | 6.5 mm ... 7.5 mm |
|-------------------------|-------------------|

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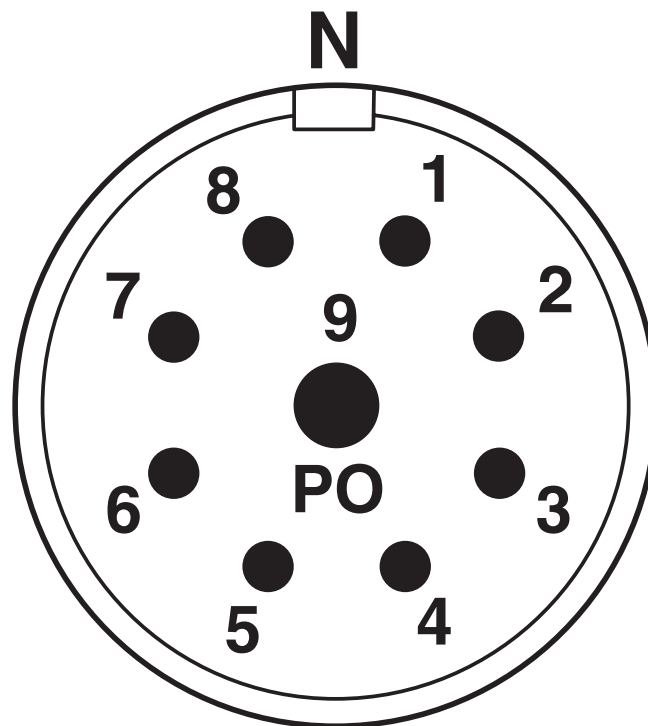
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## Drawings

Schematic diagram



Connector pin assignment

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-11.0 | 27440102 |
| ECLASS-12.0 | 27440116 |
| ECLASS-13.0 | 27440116 |

### ETIM

|          |          |
|----------|----------|
| ETIM 8.0 | EC002635 |
|----------|----------|

### UNSPSC

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

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                                    | a71de451-4f93-463e-926f-1ea05d5f08ee                                                                                                                                                                                              |

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## Accessories

### PROT-M23-SG-IT-IP20 - Plastic protective cap

1577206

<https://www.phoenixcontact.com/pc/products/1577206>



Plastic protective cap, M23, degree of protection: IP20, series: CA, RC, RF, UC, RM

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