

# RC-09S1N8AT049 - Cable connector



1596400

<https://www.phoenixcontact.com/us/products/1596400>

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, Cable connector, series: RC, angled, shielded: yes, Screw locking mechanism, No. of pos. : 8+1, Direction of rotation: Standard, contact connection type: Socket, Crimp connection, cable diameter range: 6.5 mm ... 7.5 mm, coding: N

## Commercial data

|                                      |                                |
|--------------------------------------|--------------------------------|
| Item number                          | 1596400                        |
| Packing unit                         | 8 pc                           |
| Minimum order quantity               | 1 pc                           |
| Note                                 | Made to order (non-returnable) |
| Product key                          | ABRAFC                         |
| GTIN                                 | 4046356211093                  |
| Weight per piece (including packing) | 135.93 g                       |
| Weight per piece (excluding packing) | 135.93 g                       |
| Country of origin                    | DE                             |

# RC-09S1N8AT049 - Cable connector



1596400

<https://www.phoenixcontact.com/us/products/1596400>

## Technical data

### Notes

|                    |  |
|--------------------|--|
| Order information: | Order crimp contacts 8 x Ø 1 mm, 1 x Ø 2 mm separately |
|--------------------|--|

### Product properties

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

### Material specifications

|                  |       |
|------------------|-------|
| Housing material | Metal |
|------------------|-------|

### Connector

#### Insulating body

|   |   |
|---|---|
| Note                                    | Order information: Order crimp contacts 8 x Ø 1 mm, 1 x Ø 2 mm separately |
| Coding                                  | N   |
| Material (Insulating body)              | PA 6.6  |
| Connection method                       | Crimp connection  |
| Contact switching type                  | Socket  |
| Application                             | Signal  |
| Number of positions                     | 9   |
| Direction of rotation                   | Standard  |
| Connection profile                      | 8+1   |
| Number Contact (Contact group 1)        | 1   |
| Diameter Contact (Contact group 1)      | 2 mm  |
| Rated current Contact (Contact group 1) | 20 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   |
| Number Contact (Contact group 2)        | 8   |
| Diameter Contact (Contact group 2)      | 1 mm  |
| Rated current Contact (Contact group 2) | 8 A   |
| Rated voltage Contact (Contact group 2) | 48 V AC<br>48 V AC  |

#### Housing

|                     |                         |
|---------------------|-------------------------|
| Type                | Cable connector housing |
| Thread type         | M23                     |
| Design              | angled                  |
| Type of locking     | Screw locking mechanism |
| Pg screw connection | none                    |
| Material (Housing)  | GD-Zn                   |

# RC-09S1N8AT049 - Cable connector



1596400

<https://www.phoenixcontact.com/us/products/1596400>

|                                   |              |
|-----------------------------------|--------------|
| Material (Rotating parts)         | CuZn         |
| Material (Housing surface)        | Ni           |
| Material (Seal)                   | FPM (O-ring) |
| Degree of protection (plugged in) | IP67         |

## Seal

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

# RC-09S1N8AT049 - Cable connector

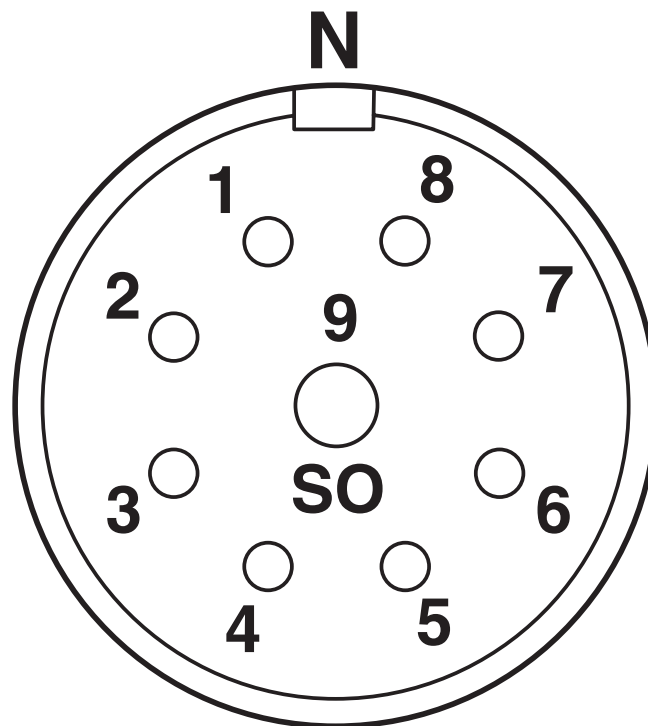
1596400

<https://www.phoenixcontact.com/us/products/1596400>



## Drawings

Schematic diagram



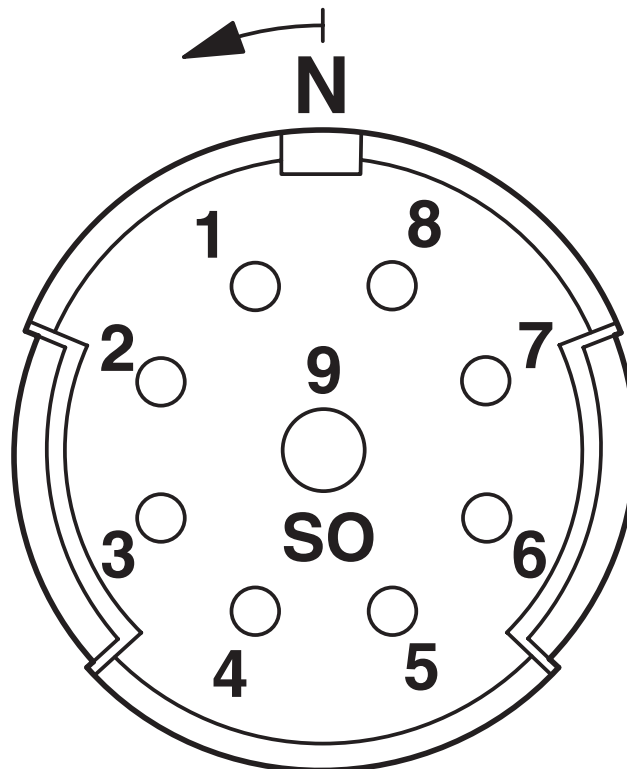
Connector pin assignment

# RC-09S1N8AT049 - Cable connector

1596400

<https://www.phoenixcontact.com/us/products/1596400>

Schematic diagram



Connector pin assignment

Phoenix Contact 2025 © - 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)