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M23, Device connector front mounting, series: RC, angled rotatable, shielded: yes, for standard and SPEEDCON interlock, No. of pos.: 8+1, Direction of rotation: Standard, contact connection type: Pin, Solder connection, Axial O-ring, 4x Ø 3.2, coding: N, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1244478

Your advantages

- Easy connection, thanks to infinitely adjustable cable outlet direction up to 310°
- Safe use in the field, thanks to high degree of protection
- Connector for flexible on-site assembly
- Consistent EMC protection for reliable transmission of signals
- Solder connection: proven connection technology for various litz wires

Commercial data

|                                      |                                |
|--------------------------------------|--------------------------------|
| Item number                          | 1621746                        |
| Packing unit                         | 1 pc                           |
| Minimum order quantity               | 1 pc                           |
| Note                                 | Made to order (non-returnable) |
| Sales key                            | AB31                           |
| Product key                          | ABRAEQ                         |
| Catalog page                         | Page 104 (C-2-2019)            |
| GTIN                                 | 4055626001210                  |
| Weight per piece (including packing) | 126.7 g                        |
| Weight per piece (excluding packing) | 111.11 g                       |
| Customs tariff number                | 85366990                       |
| Country of origin                    | DE                             |

# CA-09P1N12AD00 - Device connector front mounting



1621746

<https://www.phoenixcontact.com/us/products/1621746>

## Technical data

### Product properties

|                        |                                   |
|------------------------|-----------------------------------|
| Product type           | Circular connectors (device side) |
| Data management status |                                   |
| Article revision       | 05                                |

### Connector

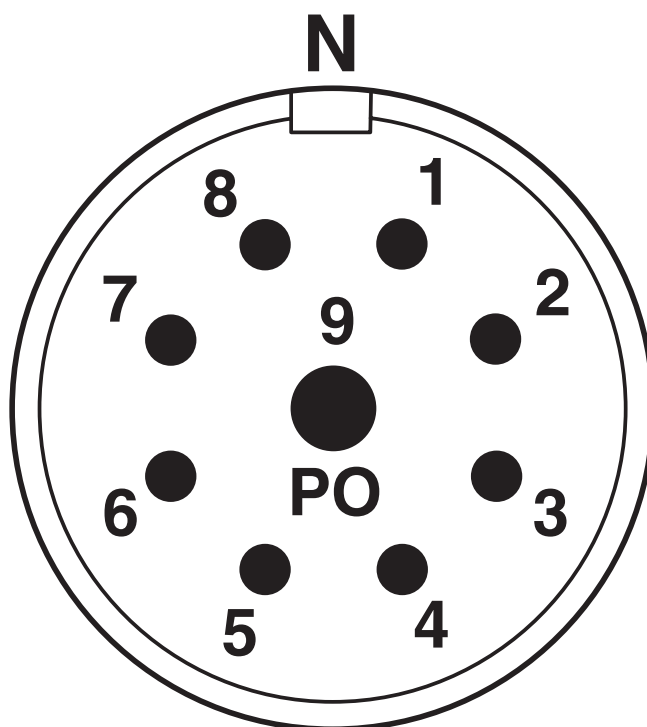
|                                    |                     |
|------------------------------------|---------------------|
| Insulating body                    |                     |
| Coding                             | N                   |
| Insulation body material           | PBT                 |
| Contact material                   | CuZn                |
| Contact surface material           | Ni/Au               |
| Insertion/withdrawal cycles        | 100                 |
| Connection method                  | Solder connection   |
| Contact switching type             | Pin                 |
| Application                        | Signal              |
| Number of positions                | 9                   |
| Direction of rotation              | Standard            |
| Connection profile                 | 8+1                 |
| Contact diameter                   | 2 mm                |
| Litz wire cross-section            | 2.5 mm <sup>2</sup> |
| Rated current                      | 20 A                |
| Rated voltage                      | 48 V AC<br>74 V DC  |
| Rated surge voltage                | 1.5 kV              |
| Overvoltage category               | III                 |
| Degree of pollution                | 3                   |
| Contact diameter                   | 1 mm                |
| Litz wire cross-section            | 1 mm <sup>2</sup>   |
| Nominal current per signal contact | 8 A                 |

### Housing

|                                   |                                                                      |
|-----------------------------------|----------------------------------------------------------------------|
| Housing material                  | Turned parts: copper zinc alloy (CuZn), die-cast parts: zinc (GD-Zn) |
| Type of locking                   | for standard and SPEEDCON interlock                                  |
| Pg screw connection               | none                                                                 |
| Degree of protection (plugged in) | IP67                                                                 |
| Thread type                       | M23                                                                  |

## Drawings

Schematic diagram



Connector pin assignment

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1621746>

|  <b>cUL Recognized</b><br>Approval ID: E335019-20141210 |                       |                       |                   |                             |
|------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
|                                                                                                                                          | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| Power                                                                                                                                    | 48 V                  | 12 A                  | 14 - 14           | -                           |
| Signal                                                                                                                                   | 48 V                  | 6 A                   | 18 - 18           | -                           |

|  <b>UL Recognized</b><br>Approval ID: E335019-20141210 |                       |                       |                   |                             |
|-----------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
|                                                                                                                                         | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| Power                                                                                                                                   | 48 V                  | 20 A                  | 14 - 14           | -                           |
| Signal                                                                                                                                  | 48 V                  | 8 A                   | 18 - 18           | -                           |

| <b>cULus Recognized</b> |  |  |  |  |
|-------------------------|--|--|--|--|
|-------------------------|--|--|--|--|

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## Classifications

### ECLASS

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

### ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | EC002635 |
|----------|----------|

### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 21.0 | 39121100 |
|-------------|----------|

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                                    | 2beb3205-4206-4aba-b73c-fe7012a76dd3                                                                                                                                                                                              |