

# CA-1RP1N8AT0DN - Cable connector



1624075

<https://www.phoenixcontact.com/us/products/1624075>

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: CA, angled, shielded: yes, Screw locking mechanism, No. of pos.: 16+2+FE, Direction of rotation: Standard, contact connection type: Pin, Crimp connection, cable diameter range: 3 mm ... 14.5 mm, coding: N, this item is expected to be lead-free from Q2 2026 in accordance with RoHS II without exception 6c (Pb < 0.1%), a lead-free alternative is possible on request in advance

## Your advantages

- Angled cable outlet for confined spaces
- Can be adapted to various applications, thanks to adjustable cable outlet direction
- 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
- Crimping connection: vibration- and temperature-resistant assembly

## Commercial data

|                                      |                                |
|--------------------------------------|--------------------------------|
| Item number                          | 1624075                        |
| Packing unit                         | 1 pc                           |
| Minimum order quantity               | 1 pc                           |
| Note                                 | Made to order (non-returnable) |
| Sales key                            | AB31                           |
| Product key                          | ABRAEC                         |
| GTIN                                 | 4055626230665                  |
| Weight per piece (including packing) | 187.7 g                        |
| Weight per piece (excluding packing) | 181.252 g                      |
| Customs tariff number                | 85366990                       |
| Country of origin                    | DE                             |

# CA-1RP1N8AT0DN - Cable connector



1624075

<https://www.phoenixcontact.com/us/products/1624075>

## Technical data

### Notes

|                    |                                                                                                               |
|--------------------|---------------------------------------------------------------------------------------------------------------|
| Order information: | Order crimp contacts 16 x Ø 1 mm, 2 x Ø 1.5 mm, 1 x Ø 1.5 (PE) separately                                     |
| Order information: | When using a specific cable with Ø 3 mm ... 4 mm, it may be necessary to use the special cable seal (1786601) |

### Product properties

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

### Connector

#### Insulating body

|                                                        |                                                                                                     |
|--------------------------------------------------------|-----------------------------------------------------------------------------------------------------|
| Note                                                   | Order information: Order crimp contacts 16x Ø 1 mm, 2x Ø 1.5 mm, 1x Ø 1.5 mm (FE, first) separately |
| Coding                                                 | N                                                                                                   |
| Material (Insulating body)                             | PA 6.6                                                                                              |
| Flammability rating according to UL 94                 | V0                                                                                                  |
| Insertion/withdrawal cycles                            | 100                                                                                                 |
| Connection method                                      | Crimp connection                                                                                    |
| Contact switching type                                 | Pin                                                                                                 |
| Application                                            | Signal                                                                                              |
| Number of positions                                    | 19                                                                                                  |
| Direction of rotation                                  | Standard                                                                                            |
| Connection profile                                     | 16+2+FE                                                                                             |
| Installation height                                    | 2000 m                                                                                              |
| Number Contact (Contact group 1)                       | 3                                                                                                   |
| Diameter Contact (Contact group 1)                     | 1.5 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)                | 10 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                                   | II                                                                                                  |
| Degree of pollution                                    | 3                                                                                                   |
| Number Contact (Contact group 2)                       | 16                                                                                                  |
| Diameter Contact (Contact group 2)                     | 1 mm                                                                                                |
| Litz wire cross-section min. Contact (Contact group 2) | 0.08 mm <sup>2</sup>                                                                                |
| Litz wire cross-section max. Contact (Contact group 2) | 1 mm <sup>2</sup>                                                                                   |
| Rated current Contact (Contact group 2)                | 8 A                                                                                                 |
| Rated voltage Contact (Contact group 2)                | 48 V AC<br>48 V AC                                                                                  |
| Rated surge voltage                                    | 1.5 kV                                                                                              |

# CA-1RP1N8AT0DN - Cable connector



1624075

<https://www.phoenixcontact.com/us/products/1624075>

|                      |     |
|----------------------|-----|
| Overvoltage category | III |
| Degree of pollution  | 3   |

## Housing

|                                   |                                                                      |
|-----------------------------------|----------------------------------------------------------------------|
| Type                              | Cable connector housing                                              |
| Thread type                       | M23                                                                  |
| Design                            | angled                                                               |
| Type of locking                   | Screw locking mechanism                                              |
| Pg screw connection               | none                                                                 |
| Housing material                  | Turned parts: copper zinc alloy (CuZn), die-cast parts: zinc (GD-Zn) |
| Material for screw connection     | CuZn                                                                 |
| Degree of protection (plugged in) | IP67                                                                 |

## Seal

|                         |                  |
|-------------------------|------------------|
| External cable diameter | 3 mm ... 14.5 mm |
| Seal material           | NBR              |

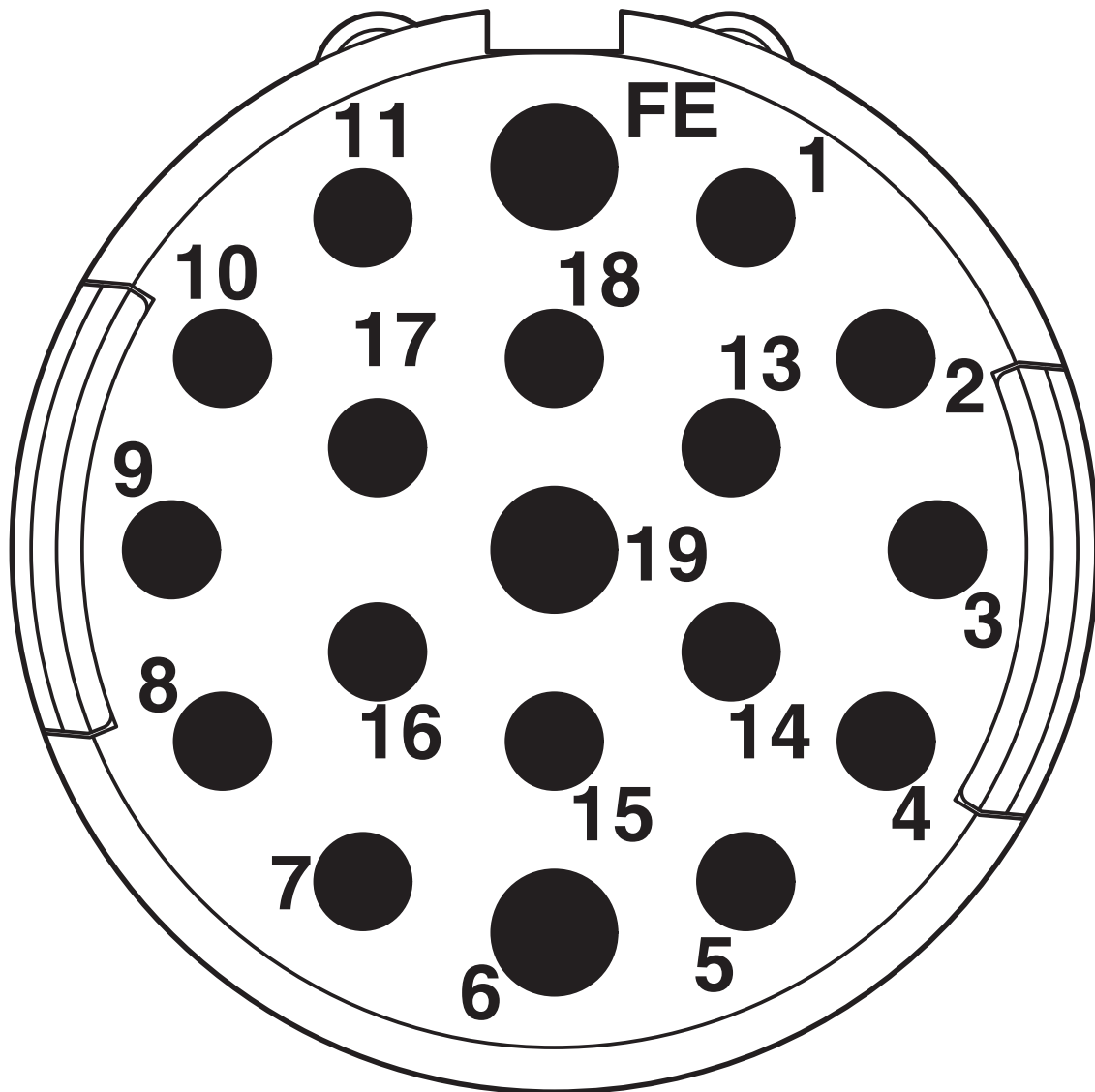
## Environmental and real-life conditions

### Ambient conditions

|                                          |               |
|------------------------------------------|---------------|
| Permissible humidity (storage/transport) | 50 % ... 65 % |
|------------------------------------------|---------------|

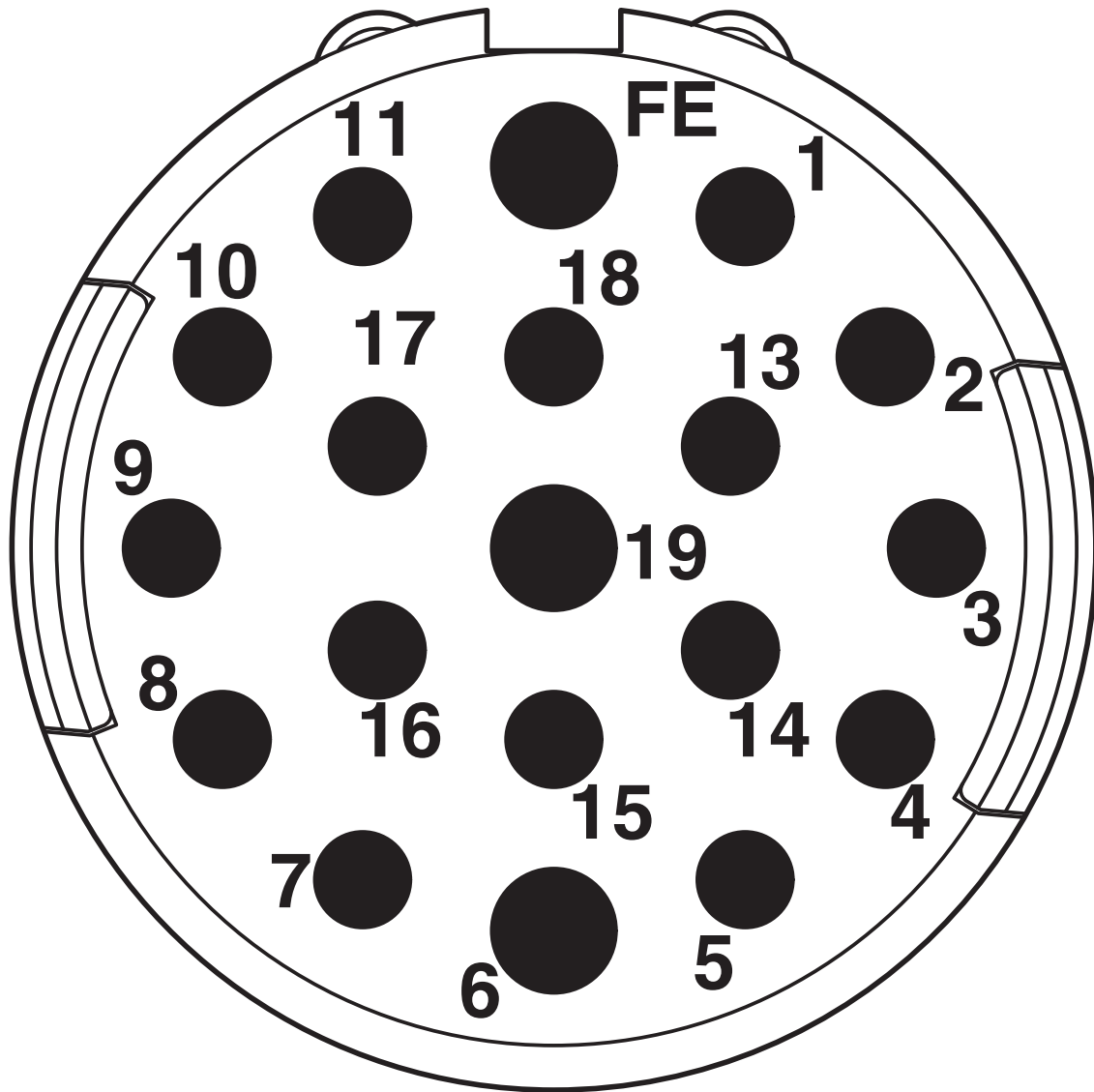
## Drawings

Schematic diagram



Connector pin assignment

Schematic diagram



Connector pin assignment

# CA-1RP1N8AT0DN - Cable connector



1624075

<https://www.phoenixcontact.com/us/products/1624075>

## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27440116 |
| ECLASS-15.0 | 27440116 |

### ETIM

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

### UNSPSC

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

# CA-1RP1N8AT0DN - Cable connector



1624075

<https://www.phoenixcontact.com/us/products/1624075>

## 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                                | af1fd1a7-b6ae-4d7b-84e0-3fc426d995d0 |

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)