

# CA-1RP1N8A6Z00 - Device connector front mounting



1624018

<https://www.phoenixcontact.com/gb/products/1624018>

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M23, Device connector front mounting, series: CA, straight, shielded: yes, for standard and SPEEDCON interlock, No. of pos.: 16+2+FE, Direction of rotation: Standard, contact connection type: Pin, Crimp connection, Axial seal, Central fastening Pg13,5, coding: N

## Your advantages

- 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                          | 1624018                        |
| Packing unit                         | 1 pc                           |
| Minimum order quantity               | 1 pc                           |
| Note                                 | Made to order (non-returnable) |
| Sales key                            | ABRAEL                         |
| Product key                          | ABRAEL                         |
| Catalog page                         | Page 95 (C-2-2019)             |
| GTIN                                 | 4055626228327                  |
| Weight per piece (including packing) | 27 g                           |
| Weight per piece (excluding packing) | 26.8 g                         |
| Customs tariff number                | 85366990                       |
| Country of origin                    | DE                             |

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## 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 |
|--------------------|---------------------------------------------------------------------------|

### Product properties

|                        |                                   |
|------------------------|-----------------------------------|
| Product type           | Circular connectors (device side) |
| Data management status |                                   |
| Article revision       | 03                                |

### Material specifications

|                                        |    |
|----------------------------------------|----|
| Flammability rating according to UL 94 | V0 |
|----------------------------------------|----|

### 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                                                                                                   |
| Insulation body material           | PA 6.6                                                                                              |
| 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                                                                                             |
| Contact diameter                   | 1.5 mm                                                                                              |
| <b>Power contacts</b>              |                                                                                                     |
| Litz wire cross-section            | 0.08 mm <sup>2</sup>                                                                                |
| Litz wire cross-section            | 1 mm <sup>2</sup>                                                                                   |
| Rated current                      | 10 A                                                                                                |
| Note                               | for max. connection cross section                                                                   |
| Rated voltage                      | 48 V AC<br>74 V DC                                                                                  |
| Rated surge voltage                | 1.5 kV                                                                                              |
| Overvoltage category               | II                                                                                                  |
| Degree of pollution                | 3                                                                                                   |
| Contact diameter                   | 1 mm                                                                                                |
| <b>Signal contacts</b>             |                                                                                                     |
| Litz wire cross-section            | 0.08 mm <sup>2</sup>                                                                                |
| Litz wire cross-section            | 1 mm <sup>2</sup>                                                                                   |
| Nominal current per signal contact | 8 A                                                                                                 |

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|                              |         |
|------------------------------|---------|
| Rated voltage Signal contact | 48 V AC |
| Rated surge voltage          | 1.5 kV  |
| Overvoltage category         | III     |
| Degree of pollution          | 3       |
| Installation height          | 2000 m  |

## Housing

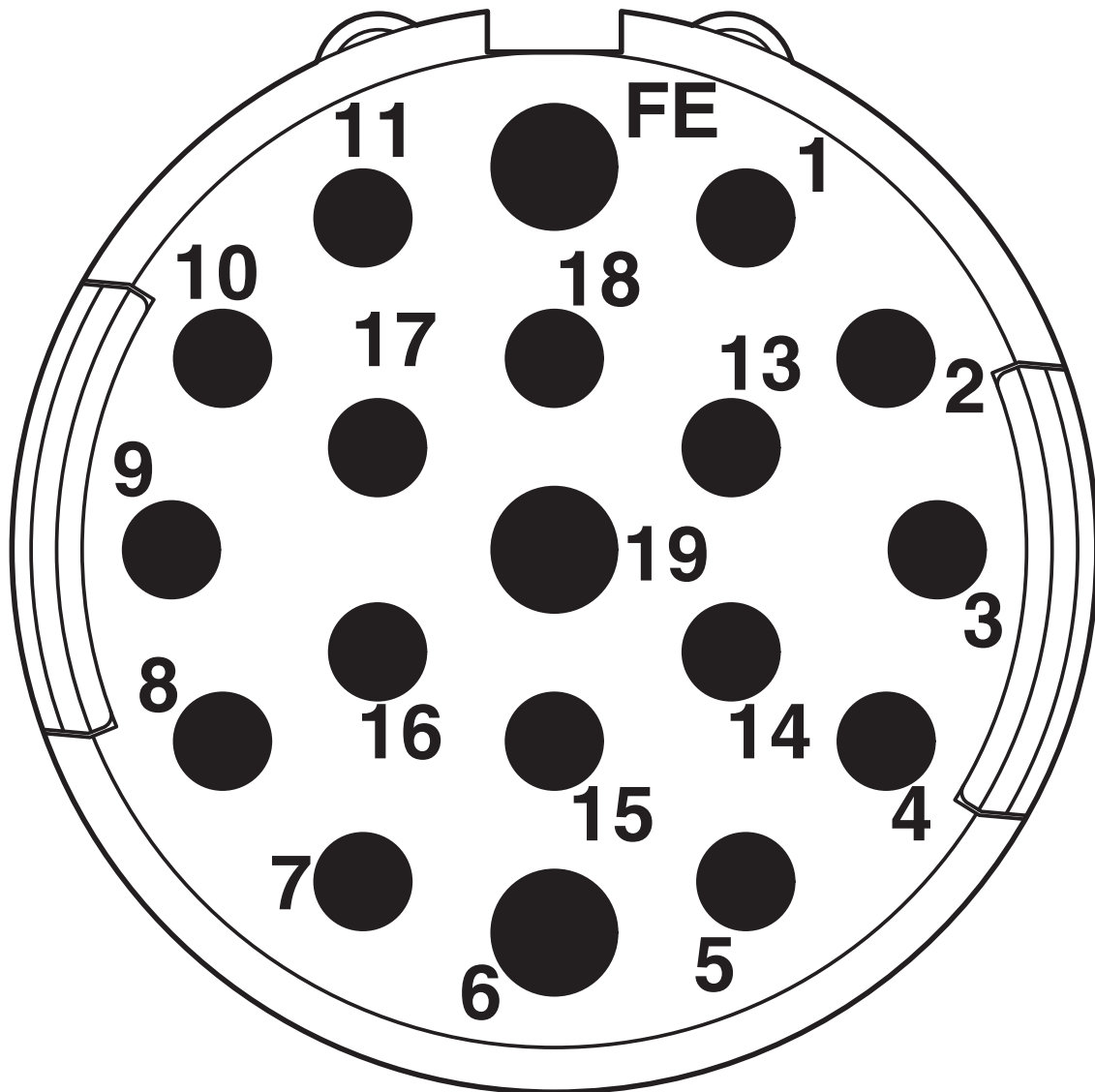
|                                   |                                            |
|-----------------------------------|--------------------------------------------|
| Order information:                | If necessary, order locking nut separately |
| Housing material                  | CuZn                                       |
| Type of locking                   | for standard and SPEEDCON interlock        |
| Pg screw connection               | none                                       |
| Degree of protection (plugged in) | IP67                                       |
| Thread type                       | M23                                        |

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## Drawings

Schematic diagram



Connector pin assignment

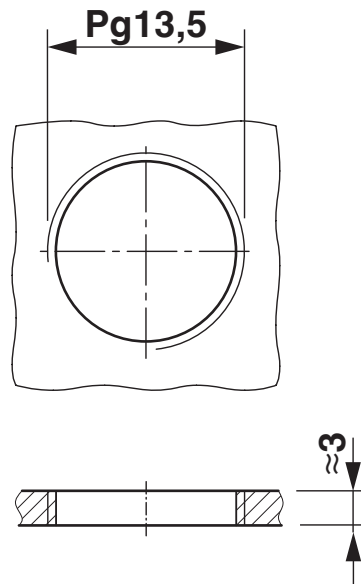
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Dimensional drawing



Installation dimensions

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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/gb/products/1624018>

| <div> <b>cUL Recognized</b><br/>Approval ID: E335019-20141210</div> |                       |                       |                   |                             |
|------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
|                                                                                                                                                      | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| Power                                                                                                                                                | 48 V                  | 6 A                   | 18 - 18           | -                           |
| Signal                                                                                                                                               | 48 V                  | 5 A                   | 18 - 18           | -                           |

| <div> <b>UL Recognized</b><br/>Approval ID: E335019-20141210</div> |                       |                       |                   |                             |
|-----------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
|                                                                                                                                                     | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| Power                                                                                                                                               | 48 V                  | 10 A                  | 18 - 18           | -                           |
| Signal                                                                                                                                              | 48 V                  | 8 A                   | 18 - 18           | -                           |

|                  |  |  |  |  |
|------------------|--|--|--|--|
| cULus Recognized |  |  |  |  |
|------------------|--|--|--|--|

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-11.0 | 27440109 |
| ECLASS-12.0 | 27440109 |
| ECLASS-13.0 | 27440109 |

### ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | EC003569 |
|----------|----------|

### UNSPSC

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

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## Environmental product compliance

### EU RoHS

|                                         |                    |
|-----------------------------------------|--------------------|
| Fulfills EU RoHS substance requirements | Yes, No exemptions |
|-----------------------------------------|--------------------|

### China RoHS

|                                        |                                          |
|----------------------------------------|------------------------------------------|
| Environment friendly use period (EFUP) | EFUP-E                                   |
|                                        | No hazardous substances above the limits |

### EU REACH SVHC

|                                     |                            |
|-------------------------------------|----------------------------|
| REACH candidate substance (CAS No.) | No substance above 0.1 wt% |
|-------------------------------------|----------------------------|

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