

# CA-1RP1N8A6L00 - Device connector front mounting



1623630

<https://www.phoenixcontact.com/us/products/1623630>

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M23, Device connector front mounting, application: Signal, 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, coding: N. This product is in the process of being discontinued. This product must no longer be considered for new projects. Please contact your sales representative for alternatives.

Similar to figure, please order crimp contacts separately

## 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                          | 1623630                        |
| Packing unit                         | 1 pc                           |
| Minimum order quantity               | 1 pc                           |
| Note                                 | Made to order (non-returnable) |
| Sales key                            | AB31                           |
| Product key                          | ABRAEL                         |
| GTIN                                 | 4055626191416                  |
| Weight per piece (including packing) | 36.3 g                         |
| Weight per piece (excluding packing) | 29.666 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) |
|--------------|-----------------------------------|

### 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 group 1)                        | 3   |
| Contact diameter (Contact group 1)              | 1.5 mm  |
| Litz wires Min. cross section (Contact group 1) | 0.08 mm <sup>2</sup>  |
| Litz wires Max. cross section (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 group 2)                        | 16  |
| Contact diameter (Contact group 2)              | 1 mm  |
| Litz wires Max. cross section (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  |
| Overvoltage category                            | III   |
| Degree of pollution                             | 3   |

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## Housing

|                                   |  |
|-----------------------------------|--|
| Thread type                       | M23  |
| Design                            | straight   |
| Type of locking                   | for standard and SPEEDCON interlock                                  |
| Pg screw connection               | none   |
| Mounting type                     | Front mounting (M20 x 1,5)   |
| Assembly note                     | Central fastening  |
| Housing material                  | Turned parts: copper zinc alloy (CuZn), die-cast parts: zinc (GD-Zn) |
| Degree of protection (plugged in) | IP67   |
| Seal for the device               | Axial seal   |

Drawings

Dimensional drawing



Installation dimensions

Schematic diagram



Connector pin assignment

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1623630>

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

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

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27440109 |
| ECLASS-15.0 | 27440109 |

### ETIM

|           |          |
|-----------|----------|
| ETIM 10.0 | EC003569 |
|-----------|----------|

### UNSPSC

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

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## 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                                | 6523dca4-170e-4441-9dd6-c91e5346b42b |

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