

# CA-16P1N12T0DN - Cable connector



1620300

<https://www.phoenixcontact.com/us/products/1620300>

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The figure shows the 12-pos. product version

M23, Cable connector, application: Signal, series: CA, angled, shielded: yes, Screw locking mechanism, No. of pos.: 16, Direction of rotation: Standard, contact connection type: Pin, Solder 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
- Solder connection: proven connection technology for various litz wires

## Commercial data

|                                      |                                |
|--------------------------------------|--------------------------------|
| Item number                          | 1620300                        |
| Packing unit                         | 1 pc                           |
| Minimum order quantity               | 1 pc                           |
| Note                                 | Made to order (non-returnable) |
| Sales key                            | AB31                           |
| Product key                          | ABRAEC                         |
| GTIN                                 | 4046356817769                  |
| Weight per piece (including packing) | 193.1 g                        |
| Weight per piece (excluding packing) | 186.915 g                      |
| Customs tariff number                | 85366990                       |
| Country of origin                    | DE                             |

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## Technical data

### Notes

|                    |   |
|--------------------|---|
| 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

|   |                    |
|---|--------------------|
| Coding  | N                  |
| Material (Insulating body)                      | PBT                |
| Material (Contact)                              | CuZn               |
| Material (Contact surface)                      | Ni/Au              |
| Insertion/withdrawal cycles                     | 100                |
| Connection method                               | Solder connection  |
| Contact switching type                          | Pin                |
| Application                                     | Signal             |
| Number of positions                             | 16                 |
| Direction of rotation                           | Standard           |
| Connection profile                              | 16                 |
| Number (Contact group 1)                        | 0                  |
| 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 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                |

#### 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   |

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## Seal

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

## Environmental and real-life conditions

### Ambient conditions

|  |                   |
|--|-------------------|
| Ambient temperature (operation)          | -40 °C ... 125 °C |
| Permissible humidity (storage/transport) | 50 % ... 65 %     |

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## 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/1620300>

|  <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  |                       |                       |                   |                             |
|  | 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 $\text{mm}^2$ |
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## Classifications

### ECLASS

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

### ETIM

|           |          |
|-----------|----------|
| ETIM 10.0 | EC002635 |
|-----------|----------|

### 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                                | e5be0290-7ccd-441f-92a3-6a9c66a8be18 |

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