

# CA-17P1N12T007 - Cable connector

1620217

<https://www.phoenixcontact.com/us/products/1620217>



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M23, Cable connector, series: CA, angled, shielded: yes, Screw locking mechanism, No. of pos.: 17, Direction of rotation: Standard, contact connection type: Pin, Solder connection, cable diameter range: 6 mm ... 10 mm, coding: N, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1244092



## 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                          | 1620217                        |
| Packing unit                         | 1 pc                           |
| Minimum order quantity               | 1 pc                           |
| Note                                 | Made to order (non-returnable) |
| Sales key                            | AB31                           |
| Product key                          | ABRAEC                         |
| Catalog page                         | Page 93 (C-2-2019)             |
| GTIN                                 | 4046356818421                  |
| Weight per piece (including packing) | 199 g                          |
| Weight per piece (excluding packing) | 199 g                          |
| Customs tariff number                | 85366990                       |
| Country of origin                    | DE                             |

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## Technical data

### Product properties

|                        |                                 |
|------------------------|---------------------------------|
| Product type           | Circular connector (cable-side) |
| Data management status |                                 |
| Article revision       | 06                              |

### 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                                 | 17                |
| Direction of rotation                               | Standard          |
| Connection profile                                  | 17                |
| Rated voltage                                       | 48 V AC           |
|   | 74 V DC           |
| Rated surge voltage                                 | 1.5 kV            |
| Overshoot category                                  | III               |
| Degree of pollution                                 | 3                 |
| Contact diameter <b>Signal contacts</b>             | 1 mm              |
| Litz wire cross-section <b>Signal contacts</b> max. | 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                   | Screw locking mechanism  |
| Pg screw connection               | none   |
| Degree of protection (plugged in) | IP67   |
| Thread type                       | M23  |

#### Seal

|                         |                |
|-------------------------|----------------|
| External cable diameter | 6 mm ... 10 mm |
| Seal material           | NBR            |

### Environmental and real-life conditions

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## Ambient conditions

|  |                   |
|--|-------------------|
| Ambient temperature (operation)          | -40 °C ... 125 °C |
| Ambient temperature (storage/transport)  | 15 °C ... 25 °C   |
| Permissible humidity (storage/transport) | 50 % ... 65 %     |

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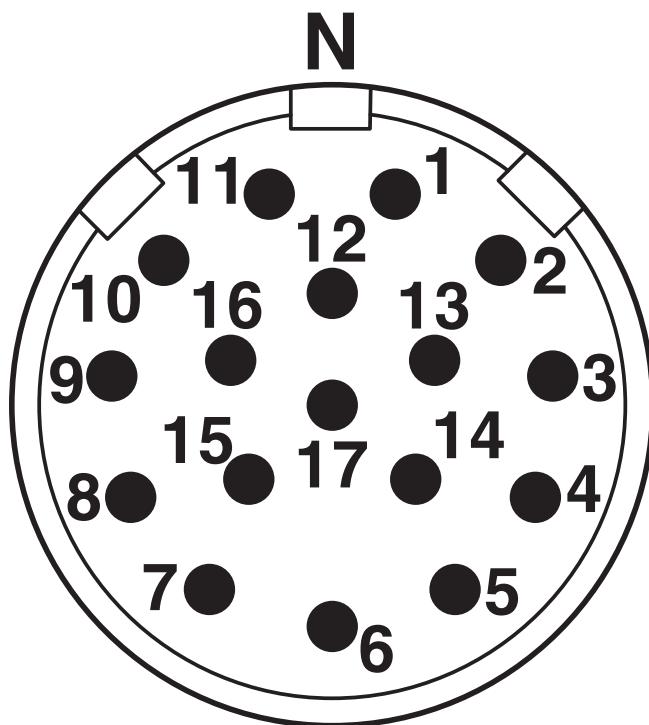
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## Drawings

Schematic diagram



Connector pin assignment

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## Approvals

ⓘ To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1620217>

| cUL Recognized                |                       |                       |                   |                      |
|-------------------------------|-----------------------|-----------------------|-------------------|----------------------|
| Approval ID: E335019-20141210 |                       |                       |                   |                      |
|                               | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
|                               | 48 V                  | 5 A                   | 18 - 18           | -                    |

| UL Recognized                 |                       |                       |                   |                      |
|-------------------------------|-----------------------|-----------------------|-------------------|----------------------|
| Approval ID: E335019-20141210 |                       |                       |                   |                      |
|                               | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
|                               | 48 V                  | 8 A                   | 18 - 18           | -                    |

cULus Recognized

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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 | 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                                | b39d6a30-d925-4d22-a2b3-6663eefee004 |

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