# CA-16S1N12T007 - Cable connector

1620246

https://www.phoenixcontact.com/us/products/1620246

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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: Socket, Solder connection, cable diameter range: 6 mm ... 10 mm, coding: N, this item is expected to be lead-free from Q3 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 | 1620246 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Note | Made to order (non-returnable) |
| Sales key | AB31 |
| Product key | ABRAEC |
| GTIN | 4046356818377 |
| Weight per piece (including packing) | 192 g |
| Weight per piece (excluding packing) | 184.065 g |
| Customs tariff number | 85366990 |
| Country of origin | DE |

## Technical data

### Product properties

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

### Connector

Connection 1

| | |
|---|---|
| Head design | Socket |

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 | Socket |
| 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 |
| | 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 mm² |
| 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 |
| Material (Housing) | CuZn (Rotating parts) |
| | GD-Zn (Die-cast parts) |
| Material (Screw connection) | CuZn |
| Degree of protection (plugged in) | IP67 |

Seal

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

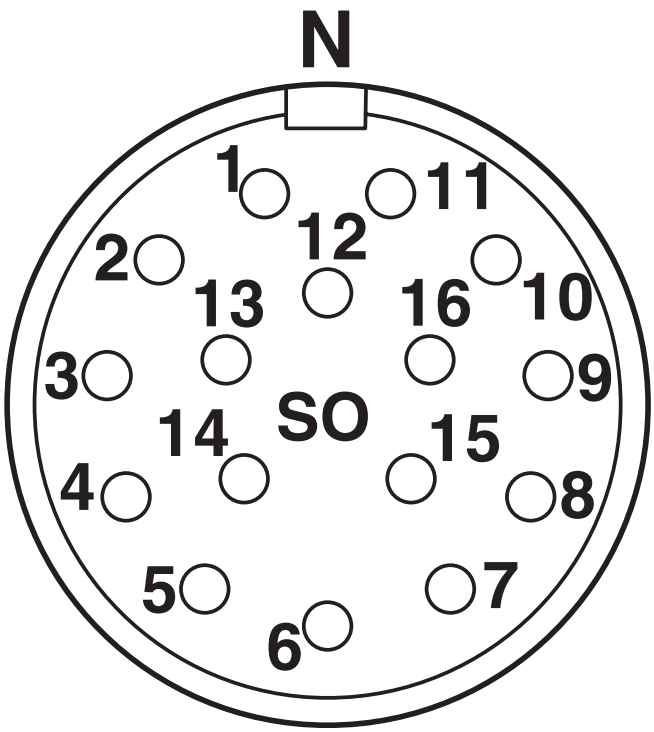
## Environmental and real-life conditions

### Ambient conditions

| | |
|---|---|
| Ambient temperature (operation) | -40 °C ... 125 °C |

## Drawings

Schematic diagram




Connector pin assignment

## Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1620246

**cUL Recognized**
Approval ID: E335019-20141210

| | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
|---|---|---|---|---|
| keine | | | | |
| | 48 V | 5 A | 18 | - |

**UL Recognized**
Approval ID: E335019-20141210

| | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
|---|---|---|---|---|
| keine | | | | |
| | 48 V | 8 A | 18 | - |

## Classifications

### ECLASS

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

### ETIM

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

### UNSPSC

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

## 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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