

# CA-19S1N12T006 - Cable connector



1620264

<https://www.phoenixcontact.com/us/products/1620264>

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M23, Cable connector, series: CA, angled, shielded: yes, Screw locking mechanism, No. of pos.: 16+3, Direction of rotation: Standard, contact connection type: Socket, Solder connection, cable diameter range: 4 mm ... 6 mm, coding: N, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1244115

## 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                          | 1620264                        |
| 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                                 | 4046356818193                  |
| Weight per piece (including packing) | 143.683 g                      |
| Weight per piece (excluding packing) | 143.683 g                      |
| Customs tariff number                | 85366990                       |
| Country of origin                    | DE                             |

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## Technical data

### Product properties

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

### Connector

#### Connection 1

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

#### Insulating body

|                                                     |                   |
|-----------------------------------------------------|-------------------|
| Coding                                              | N                 |
| Insulation body material                            | PA 6.6            |
| Contact material                                    | CuZn              |
| Contact surface material                            | Ni/Au             |
| Insertion/withdrawal cycles                         | 100               |
| Connection method                                   | Solder connection |
| Contact switching type                              | Socket            |
| Application                                         | Signal            |
| Number of positions                                 | 19                |
| Direction of rotation                               | Standard          |
| Connection profile                                  | 16+3              |
| Contact diameter <b>Power contacts</b>              | 1.5 mm            |
| Litz wire cross-section <b>Power contacts</b> max.  | 1 mm²             |
| Rated current <b>Power contacts</b>                 | 10 A              |
| Rated voltage                                       | 48 V AC           |
|                                                     | 74 V DC           |
| Rated surge voltage                                 | 1.5 kV            |
| Overvoltage category                                | III               |
| Degree of pollution                                 | 3                 |
| Contact diameter <b>Signal contacts</b>             | 1 mm              |
| Litz wire cross-section <b>Signal contacts</b> max. | 1 mm²             |
| 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 | 4 mm ... 6 mm |
|-------------------------|---------------|

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|               |     |
|---------------|-----|
| Seal material | NBR |
|---------------|-----|

## Environmental and real-life conditions

|                                          |                   |
|------------------------------------------|-------------------|
| 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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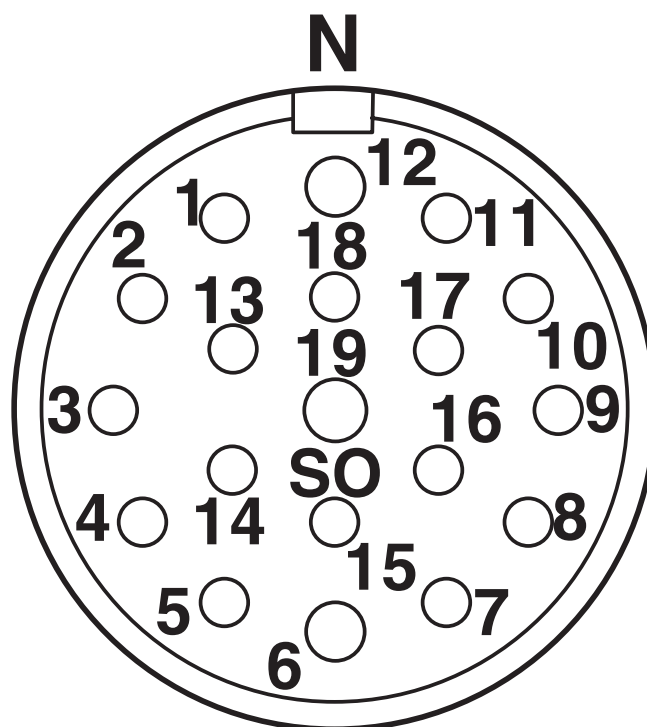
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## Drawings

Schematic diagram



Connector pin assignment

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Dimensional drawing



Dimensional drawing

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1620264>

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

| <b>cULus Recognized</b> |  |  |  |  |
|-------------------------|--|--|--|--|
|-------------------------|--|--|--|--|

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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

|            |                                                                                                              |
|------------|--------------------------------------------------------------------------------------------------------------|
| REACH SVHC | Lead 7439-92-1                                                                                               |
| China RoHS | Environmentally Friendly Use Period = 50 years                                                               |
|            | For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads" |

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## Accessories

### SF-Z0028 - Torque screwdriver

1607456

<https://www.phoenixcontact.com/us/products/1607456>

Torque screwdriver, series: RC, UC, SH, SF



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### SF-Z0027 - Hook wrench

1607455

<https://www.phoenixcontact.com/us/products/1607455>

Hook wrench, series: RC, UC, RF, SF



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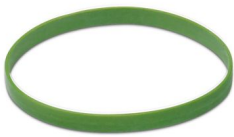


## RF-Z0014 - Color coding

1620588

<https://www.phoenixcontact.com/us/products/1620588>

Color coding, color: green



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## RF-Z0015 - Color coding

1620592

<https://www.phoenixcontact.com/us/products/1620592>

Color coding, color: orange



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<https://www.phoenixcontact.com/us/products/1620264>



## RF-Z0016 - Color coding

1620593

<https://www.phoenixcontact.com/us/products/1620593>

Color coding, color: black



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## PROT-M23-SG-IT-IP20 - Plastic protective cap

1577206

<https://www.phoenixcontact.com/us/products/1577206>

Plastic protective cap, M23, degree of protection: IP20, series: CA, RC, RF, UC, RM



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