

# CA-19S1N129006 - Coupler connector



1620121

<https://www.phoenixcontact.com/us/products/1620121>

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M23, Coupler connector, series: CA, straight, shielded: yes, for standard and SPEEDCON interlock, 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.: 1244011

## 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
- Solder connection: proven connection technology for various litz wires

## Commercial data

|                                      |                                |
|--------------------------------------|--------------------------------|
| Item number                          | 1620121                        |
| Packing unit                         | 1 pc                           |
| Minimum order quantity               | 1 pc                           |
| Note                                 | Made to order (non-returnable) |
| Sales key                            | AB31                           |
| Product key                          | ABRAEG                         |
| Catalog page                         | Page 89 (C-2-2019)             |
| GTIN                                 | 4046356819237                  |
| Weight per piece (including packing) | 95.1 g                         |
| Weight per piece (excluding packing) | 91.355 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 max.</b>  | 1 mm <sup>2</sup> |
| 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 max.</b> | 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                   | for standard and SPEEDCON interlock                                  |
| 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 |

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## Drawings

Dimensional drawing



Technical drawings can be found under Downloads

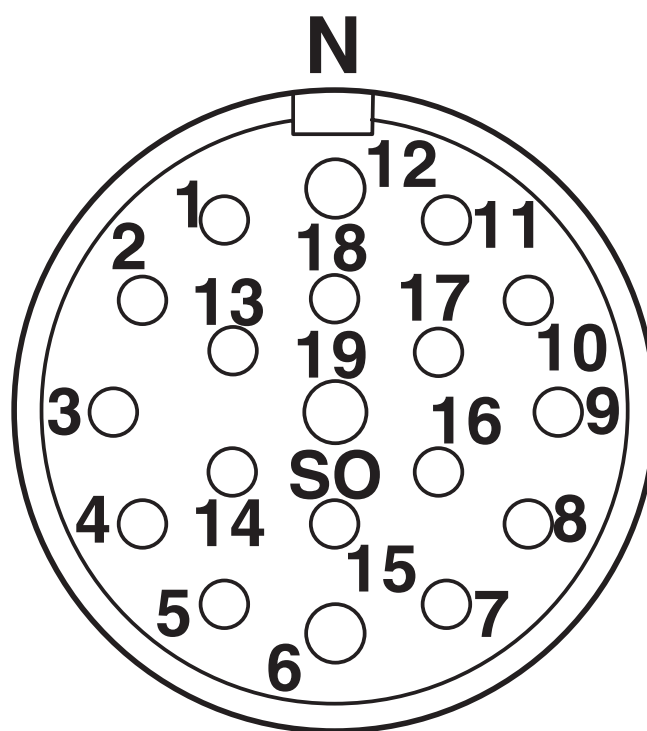
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Schematic diagram



Connector pin assignment

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1620121>

| cUL Recognized<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              | -                           |

| UL Recognized<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              | -                           |

| 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

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