

# CA-16P1N129006 - Coupler connector



1620128

<https://www.phoenixcontact.com/us/products/1620128>

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M23, Coupler connector, series: CA, straight, shielded: yes, for standard and SPEEDCON interlock, No. of pos.: 16, Direction of rotation: Standard, contact connection type: Pin, Solder connection, cable diameter range: 4 mm ... 6 mm, coding: N, this item is expected to be lead-free from Q1 2026 in accordance with RoHS II without exception 6c (Pb < 0.1%), a lead-free alternative is possible on request in advance

## 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                          | 1620128                        |
| Packing unit                         | 1 pc                           |
| Minimum order quantity               | 1 pc                           |
| Note                                 | Made to order (non-returnable) |
| Sales key                            | AB31                           |
| Product key                          | ABRAEG                         |
| GTIN                                 | 4046356819169                  |
| Weight per piece (including packing) | 97.5 g                         |
| Weight per piece (excluding packing) | 93.771 g                       |
| Customs tariff number                | 85366990                       |
| Country of origin                    | DE                             |

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## Technical data

### 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 (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 (Contact group 2)                       | 16                |
| Diameter Contact (Contact group 2)                     | 1 mm              |
| Litz wire cross-section max. Contact (Contact group 2) | 1 mm <sup>2</sup> |
| Rated current Contact (Contact group 2)                | 8 A               |

#### Housing

|                                   |                                                                      |
|-----------------------------------|----------------------------------------------------------------------|
| Type                              | Coupling housing                                                     |
| Thread type                       | M23                                                                  |
| Design                            | straight                                                             |
| Type of locking                   | for standard and SPEEDCON interlock                                  |
| 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                                                                 |

#### Seal

|                         |               |
|-------------------------|---------------|
| External cable diameter | 4 mm ... 6 mm |
| Seal material           | NBR           |

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## Environmental and real-life conditions

### Ambient conditions

|                                 |
|---------------------------------|
| Ambient temperature (operation) |
|---------------------------------|

|                   |
|-------------------|
| -40 °C ... 125 °C |
|-------------------|

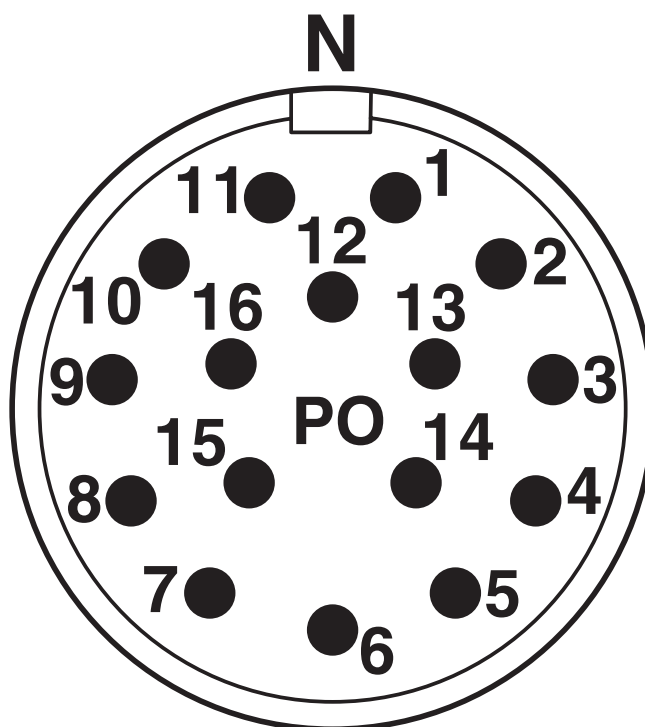
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## Drawings

Schematic diagram



Connector pin assignment

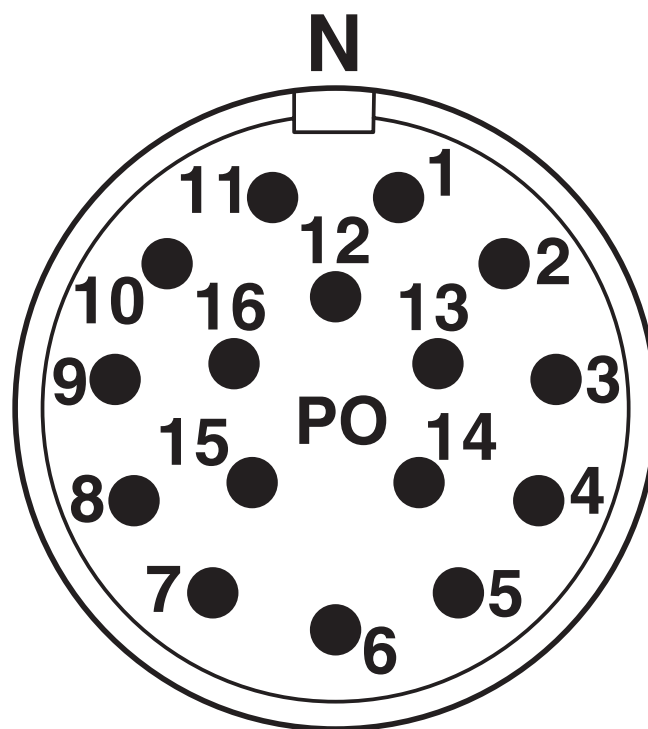
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Schematic diagram



Connector pin assignment

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1620128>

|                                                                                                                                          |                                |                                |                   |                               |
|------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|--------------------------------|-------------------|-------------------------------|
|  <b>cUL Recognized</b><br>Approval ID: E335019-20141210 |                                |                                |                   |                               |
|                                                                                                                                          | Nominal voltage U <sub>N</sub> | Nominal current I <sub>N</sub> | Cross section AWG | Cross section mm <sup>2</sup> |
| keine                                                                                                                                    |                                |                                |                   |                               |
|                                                                                                                                          | 48 V                           | 5 A                            | 18                | -                             |

|                                                                                                                                         |                                |                                |                   |                               |
|-----------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|--------------------------------|-------------------|-------------------------------|
|  <b>UL Recognized</b><br>Approval ID: E335019-20141210 |                                |                                |                   |                               |
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| keine                                                                                                                                   |                                |                                |                   |                               |
|                                                                                                                                         | 48 V                           | 8 A                            | 18                | -                             |

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27440116 |
| ECLASS-15.0 | 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: n/a)                       |
| SCIP                                | 9b95378e-3ec3-46a0-92a7-c8570c0e9f2f |

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