

# CA-12P1N129008 - Coupler connector



1620031

<https://www.phoenixcontact.com/us/products/1620031>

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M23, Coupler connector, application: Signal, series: CA, straight, shielded: yes, for standard and SPEEDCON interlock, No. of pos.: 12, Direction of rotation: Standard, contact connection type: Pin, Solder cup, cable diameter range: 10 mm ... 14.5 mm, coding: N. This product is in the process of being discontinued. This product must no longer be considered for new projects. Please contact your sales representative for alternatives. Alternative products: 1467143

## 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                          | 1620031       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Sales key                            | AB31          |
| Product key                          | ABRAEG        |
| GTIN                                 | 4046356819640 |
| Weight per piece (including packing) | 97.2 g        |
| Weight per piece (excluding packing) | 90.993 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 cup        |
| Contact switching type                          | Pin               |
| Application                                     | Signal            |
| Number of positions                             | 12                |
| Direction of rotation                           | Standard          |
| Connection profile                              | 12                |
| 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)                        | 12                |
| Contact diameter (Contact group 2)              | 1 mm              |
| Litz wires Max. cross section (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 | 10 mm ... 14.5 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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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1620031>

|  <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                           | 6 A                            | 18                | -                             |

|  <b>UL 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                           | 8 A                            | 18                | -                             |

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## Classifications

### ECLASS

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

### ETIM

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

### UNSPSC

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

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## 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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