

# CA-16S1N1280DNS - Cable connector



1619589

<https://www.phoenixcontact.com/nl/products/1619589>

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The figure shows the 12-pos.  
product version

M23, Cable connector, series: CA, straight, shielded: yes, SPEEDCON, No. of pos.: 16, Direction of rotation: Standard, contact connection type: Socket, Solder connection, cable diameter range: 3 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.

## 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
- Reduced connection time with SPEEDCON fast locking system
- Solder connection: proven connection technology for various litz wires

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1619589       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Sales key                            | ABRAEB        |
| Product key                          | ABRAEB        |
| GTIN                                 | 4046356822855 |
| Weight per piece (including packing) | 98,5 g        |
| Weight per piece (excluding packing) | 91,353 g      |
| Customs tariff number                | 85366990      |
| Country of origin                    | DE            |

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## Technical data

### Notes

|                    |                                                                                                               |
|--------------------|---------------------------------------------------------------------------------------------------------------|
| Order information: | When using a specific cable with Ø 3 mm ... 4 mm, it may be necessary to use the special cable seal (1786601) |
|--------------------|---------------------------------------------------------------------------------------------------------------|

### 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 (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                              | Cable connector housing |
| Thread type                       | M23                     |
| Design                            | straight                |
| Type of locking                   | SPEEDCON                |
| Pg screw connection               | none                    |
| Housing material                  | CuZn, GD-Zn             |
| Degree of protection (plugged in) | IP67                    |

#### Seal

|                         |                  |
|-------------------------|------------------|
| External cable diameter | 3 mm ... 14.5 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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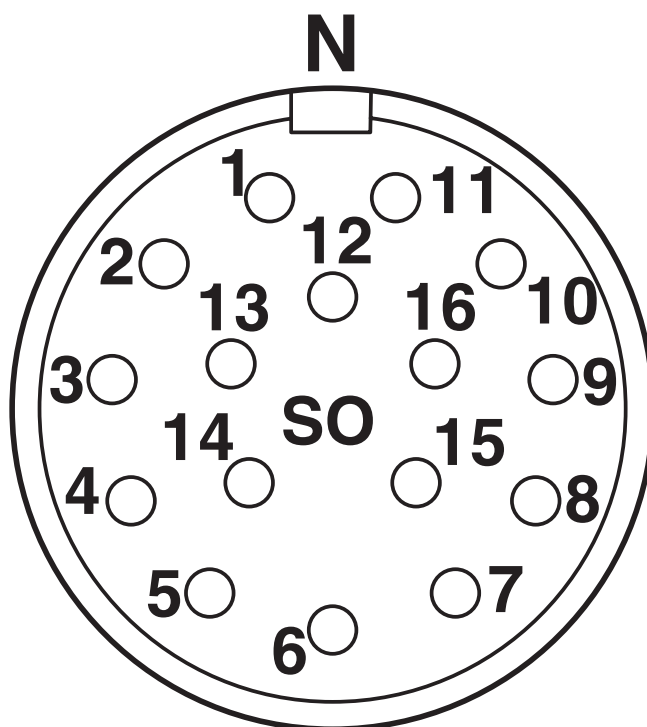
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## Drawings

Schematic diagram



Connector pin assignment

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/nl/products/1619589>

|  <b>cUL Recognized</b><br>Approval ID: E335019-20141210 |                       |                       |                   |                             |
|------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
|                                                                                                                                          | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| keine                                                                                                                                    |                       |                       |                   |                             |
|                                                                                                                                          | 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 $\text{mm}^2$ |
| 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  |
| 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: 7439-92-1)                 |
| SCIP                                | 5961ba3b-3b08-49a8-9726-bd2ce1af1296 |

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