

# CA-1RP1N8A80DNS - Cable connector



1623837

<https://www.phoenixcontact.com/us/products/1623837>

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M23, Cable connector, series: CA, straight, shielded: yes, SPEEDCON, No. of pos.: 16+2+FE, Direction of rotation: Standard, contact connection type: Pin, Crimp connection, cable diameter range: 3 mm ... 14.5 mm, coding: N, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1244999

## 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
- Crimping connection: vibration- and temperature-resistant assembly

## Commercial data

|                                      |                                |
|--------------------------------------|--------------------------------|
| Item number                          | 1623837                        |
| Packing unit                         | 1 pc                           |
| Minimum order quantity               | 1 pc                           |
| Note                                 | Made to order (non-returnable) |
| Sales key                            | AB31                           |
| Product key                          | ABRAEB                         |
| Catalog page                         | Page 85 (C-2-2019)             |
| GTIN                                 | 4055626228402                  |
| Weight per piece (including packing) | 90.6 g                         |
| Weight per piece (excluding packing) | 90.6 g                         |
| Customs tariff number                | 85366990                       |
| Country of origin                    | DE                             |

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## Technical data

### Notes

|                    |                                                                           |
|--------------------|---------------------------------------------------------------------------|
| Order information: | Order crimp contacts 16 x Ø 1 mm, 2 x Ø 1.5 mm, 1 x Ø 1.5 (PE) separately |
|--------------------|---------------------------------------------------------------------------|

### Product properties

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

### Connector

#### Insulating body

|                                                     |                                                                                                     |
|-----------------------------------------------------|-----------------------------------------------------------------------------------------------------|
| Note                                                | Order information: Order crimp contacts 16x Ø 1 mm, 2x Ø 1.5 mm, 1x Ø 1.5 mm (FE, first) separately |
| Coding                                              | N                                                                                                   |
| Insulation body material                            | PA 6.6                                                                                              |
| Insertion/withdrawal cycles                         | 100                                                                                                 |
| Connection method                                   | Crimp connection                                                                                    |
| Contact switching type                              | Pin                                                                                                 |
| Application                                         | Signal                                                                                              |
| Number of positions                                 | 19                                                                                                  |
| Direction of rotation                               | Standard                                                                                            |
| Connection profile                                  | 16+2+FE                                                                                             |
| Contact diameter <b>Power contacts</b>              | 1.5 mm                                                                                              |
| Litz wire cross-section <b>Power contacts</b> min.  | 0.08 mm <sup>2</sup>                                                                                |
| Litz wire cross-section <b>Power contacts</b> max.  | 1 mm <sup>2</sup>                                                                                   |
| Rated current <b>Power contacts</b>                 | 10 A                                                                                                |
| Note                                                | for max. connection cross section                                                                   |
| Rated voltage                                       | 48 V AC<br>74 V DC                                                                                  |
| Rated surge voltage                                 | 1.5 kV                                                                                              |
| Overvoltage category                                | II                                                                                                  |
| Degree of pollution                                 | 3                                                                                                   |
| Contact diameter <b>Signal contacts</b>             | 1 mm                                                                                                |
| Litz wire cross-section <b>Signal contacts</b> min. | 0.08 mm <sup>2</sup>                                                                                |
| Litz wire cross-section <b>Signal contacts</b> max. | 1 mm <sup>2</sup>                                                                                   |
| Nominal current per signal contact                  | 8 A                                                                                                 |
| Rated voltage Signal contact                        | 48 V AC                                                                                             |
| Rated surge voltage                                 | 1.5 kV                                                                                              |
| Overvoltage category                                | III                                                                                                 |
| Degree of pollution                                 | 3                                                                                                   |
| Installation height                                 | 2000 m                                                                                              |

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## Housing

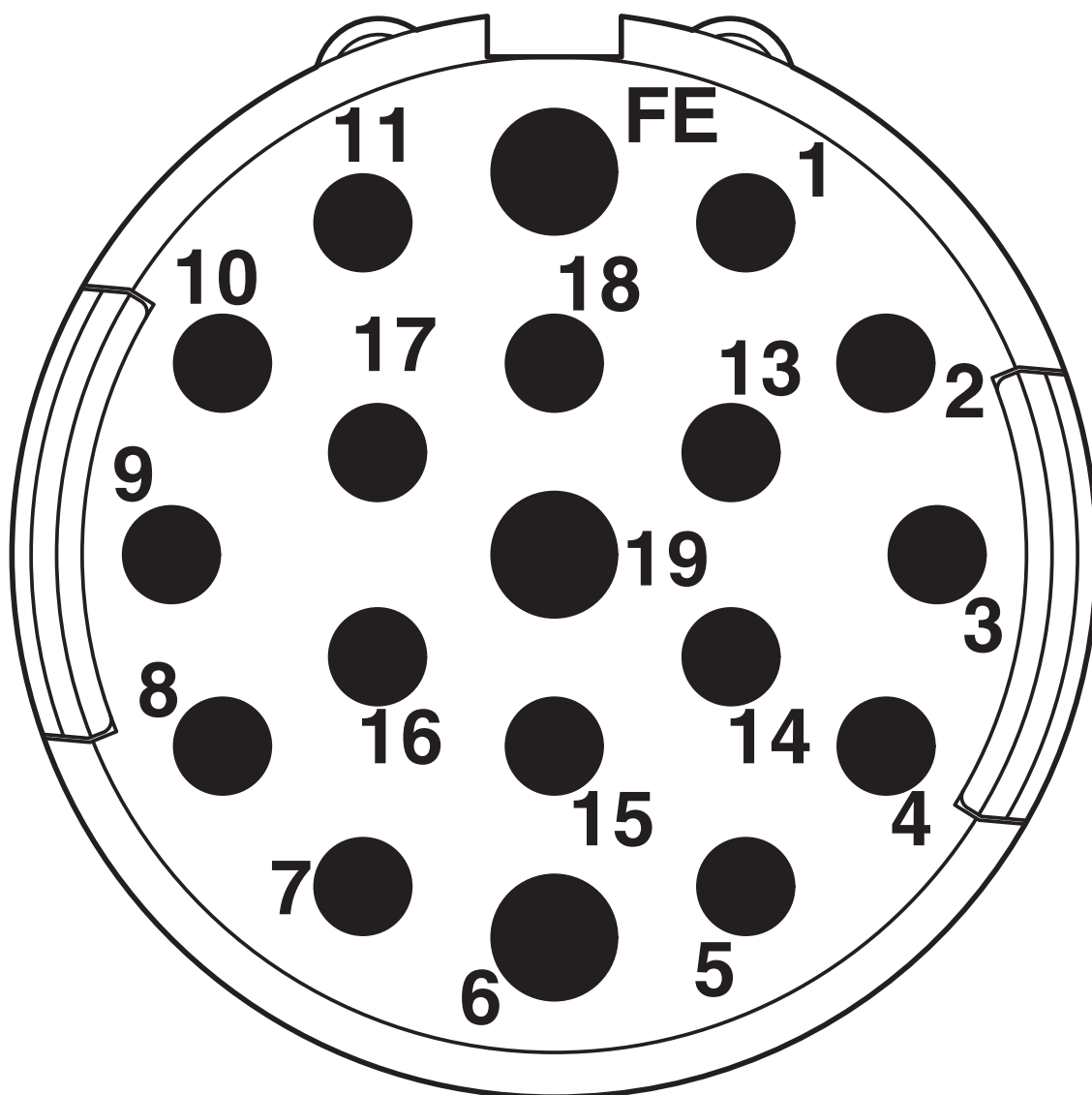
|                                   |             |
|-----------------------------------|-------------|
| Housing material                  | CuZn, GD-Zn |
| Type of locking                   | SPEEDCON    |
| Pg screw connection               | none        |
| Degree of protection (plugged in) | IP67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

## Seal

|                         |                  |
|-------------------------|------------------|
| External cable diameter | 3 mm ... 14.5 mm |
| Seal material           | NBR              |

## 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/1623837>

|  <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 - 18           | -                           |
| Signal                                                                                                                                   | 48 V                  | 5 A                   | 18 - 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 - 18           | -                           |
| Signal                                                                                                                                  | 48 V                  | 8 A                   | 18 - 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

### 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                                | a0d936f0-8c3f-446f-9532-ffe17aba87ab |

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