

# CA-1RP1N8A80DN - Cable connector



1623845

<https://www.phoenixcontact.com/us/products/1623845>

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M23, Cable connector, application: Signal, series: CA, straight, shielded: yes, Screw locking mechanism, 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. 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: 1629192

Similar to figure, please order crimp contacts separately

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

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1623845       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Sales key                            | AB31          |
| Product key                          | ABRAEA        |
| GTIN                                 | 4055626228488 |
| Weight per piece (including packing) | 92.3 g        |
| Weight per piece (excluding packing) | 86.477 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                                     |
| Order information: | When using a specific cable with Ø 3 mm ... 4 mm, it may be necessary to use the special cable seal (1786601) |

### 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   |
| Material (Insulating body)                      | PA 6.6  |
| Flammability rating according to UL 94          | V0  |
| 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   |
| Installation height                             | 2000 m  |
| Number (Contact group 1)                        | 3   |
| Contact diameter (Contact group 1)              | 1.5 mm  |
| Litz wires Min. cross section (Contact group 1) | 0.08 mm <sup>2</sup>  |
| Litz wires Max. cross section (Contact group 1) | 1 mm <sup>2</sup>   |
| Rated current Contact (Contact group 1)         | 10 A (for max. connection cross section)  |
| Rated voltage Contact (Contact group 1)         | 48 V AC<br>74 V DC  |
| Rated surge voltage                             | 1.5 kV  |
| Overvoltage category                            | II  |
| Degree of pollution                             | 3   |
| Number (Contact group 2)                        | 16  |
| 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   |
| Rated voltage Contact (Contact group 2)         | 48 V AC<br>48 V AC  |
| Rated surge voltage                             | 1.5 kV  |
| Overvoltage category                            | III   |

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|                     |   |
|---------------------|---|
| Degree of pollution | 3 |
|---------------------|---|

## Housing

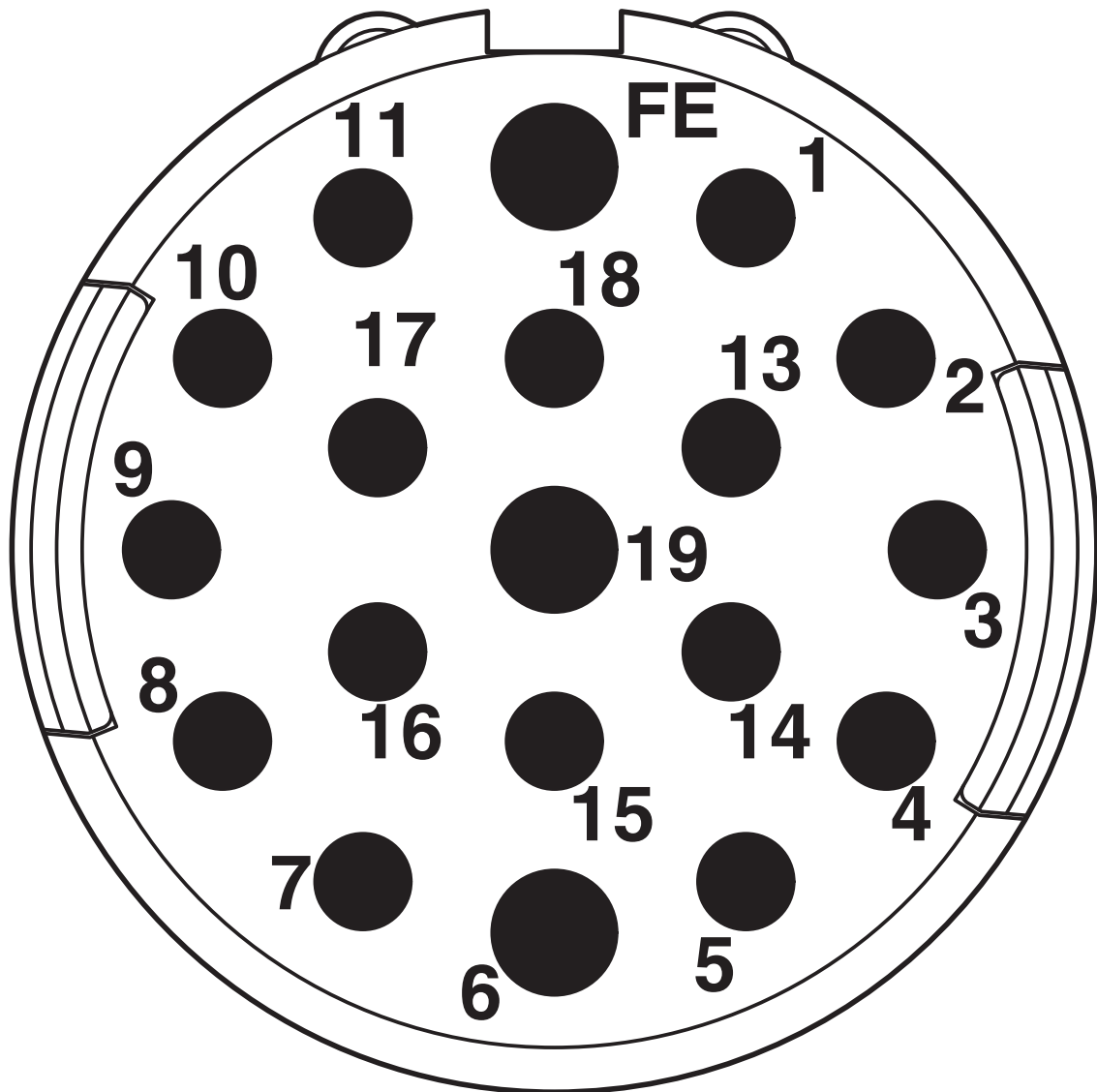
|                                   |  |
|-----------------------------------|--|
| Type                              | Cable connector housing  |
| Thread type                       | M23  |
| Design                            | straight   |
| Type of locking                   | Screw locking mechanism  |
| 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 | 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/1623845>

|  <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  |                       |                       |                   |                             |
| Power  | 48 V                  | 6 A                   | 18                | -                           |
| Signal   | 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   |                       |                       |                   |                             |
| Power   | 48 V                  | 10 A                  | 18                | -                           |
| Signal  | 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                                | 708f62f3-6402-4fd9-a59c-0122cf7e6730 |

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Phoenix Contact USA  
586 Fulling Mill Road  
Middletown, PA 17057, United States  
(+717) 944-1300  
[info@phoenixcon.com](mailto:info@phoenixcon.com)