

# CA-1RS1N8A8008 - Cable connector



1623840

<https://www.phoenixcontact.com/us/products/1623840>

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M23, Cable connector, series: CA, straight, shielded: yes, Screw locking mechanism, No. of pos. : 16+2+FE, Direction of rotation: Standard, contact connection type: Socket, Crimp connection, cable diameter range: 10 mm ... 14.5 mm, coding: N, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1245002

## 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                          | 1623840            |
| Packing unit                         | 1 pc               |
| Minimum order quantity               | 1 pc               |
| Sales key                            | AB31               |
| Product key                          | ABRAEA             |
| Catalog page                         | Page 87 (C-2-2019) |
| GTIN                                 | 4055626228532      |
| Weight per piece (including packing) | 90 g               |
| Weight per piece (excluding packing) | 87.7 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, 3 x Ø 1.5 mm separately |
|--------------------|-----------------------------------------------------------|

### Product properties

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

### Connector

#### Connection 1

|             |        |
|-------------|--------|
| Head design | Socket |
|-------------|--------|

#### Insulating body

|                                                     |                                                                              |
|-----------------------------------------------------|------------------------------------------------------------------------------|
| Note                                                | Order information: Order crimp contacts 16 x Ø 1 mm, 3 x Ø 1.5 mm separately |
| Coding                                              | N                                                                            |
| Insulation body material                            | PA 6.6                                                                       |
| Insertion/withdrawal cycles                         | 100                                                                          |
| Connection method                                   | Crimp connection                                                             |
| Contact switching type                              | Socket                                                                       |
| 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                                                                          |
| Note                                                | for max. connection cross section                                            |
| Rated voltage Signal contact                        | 48 V AC                                                                      |
| Rated surge voltage                                 | 1.5 kV                                                                       |

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|                      |        |
|----------------------|--------|
| Overvoltage category | III    |
| Degree of pollution  | 3      |
| Installation height  | 2000 m |

## Housing

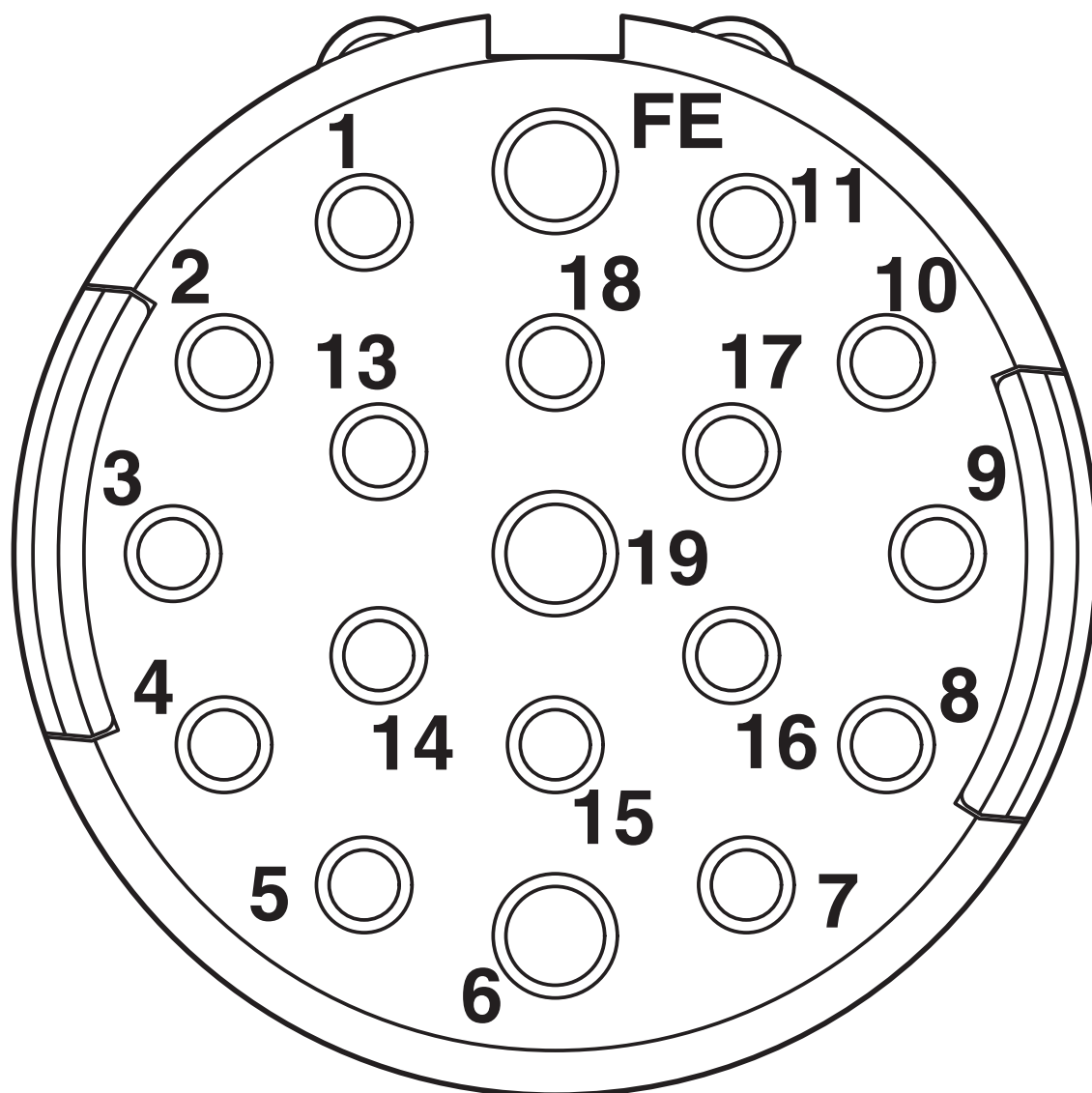
|                                   |                                                                      |
|-----------------------------------|----------------------------------------------------------------------|
| Housing material                  | Turned parts: copper zinc alloy (CuZn), die-cast parts: zinc (GD-Zn) |
| Type of locking                   | Screw locking mechanism                                              |
| Pg screw connection               | none                                                                 |
| Degree of protection (plugged in) | IP67                                                                 |
| Thread type                       | M23                                                                  |

## Seal

|                         |                   |
|-------------------------|-------------------|
| External cable diameter | 10 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/1623840>

|  <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                                | f8781377-90c6-46df-afb8-4f9dfa8b50ec |

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