

# CA-1RS1N8A8008 - Cable connector



1623840

<https://www.phoenixcontact.com/be/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                            | ABRAEA             |
| 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) |
|--------------|---------------------------------|

### Data management status

|                  |    |
|------------------|----|
| Article revision | 03 |
|------------------|----|

### 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                   | 1.5 mm                                                                       |
| <b>Power contacts</b>              |                                                                              |
| Litz wire cross-section            | Power contacts min. 0.08 mm²                                                 |
| Litz wire cross-section            | Power contacts max. 1 mm²                                                    |
| Rated current                      | Power contacts 10 A                                                          |
| Note                               | for max. connection cross section                                            |
| Rated voltage                      | 48 V AC                                                                      |
|                                    | 74 V DC                                                                      |
| Rated surge voltage                | 1.5 kV                                                                       |
| Overvoltage category               | II                                                                           |
| Degree of pollution                | 3                                                                            |
| Contact diameter                   | Signal contacts 1 mm                                                         |
| Litz wire cross-section            | Signal contacts min. 0.08 mm²                                                |
| Litz wire cross-section            | Signal contacts max. 1 mm²                                                   |
| Nominal current per signal contact | 8 A                                                                          |
| Note                               | for max. connection cross section                                            |

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|                              |         |
|------------------------------|---------|
| Rated voltage Signal contact | 48 V AC |
| Rated surge voltage          | 1.5 kV  |
| Overvoltage category         | III     |
| Degree of pollution          | 3       |
| Installation height          | 2000 m  |

## Housing

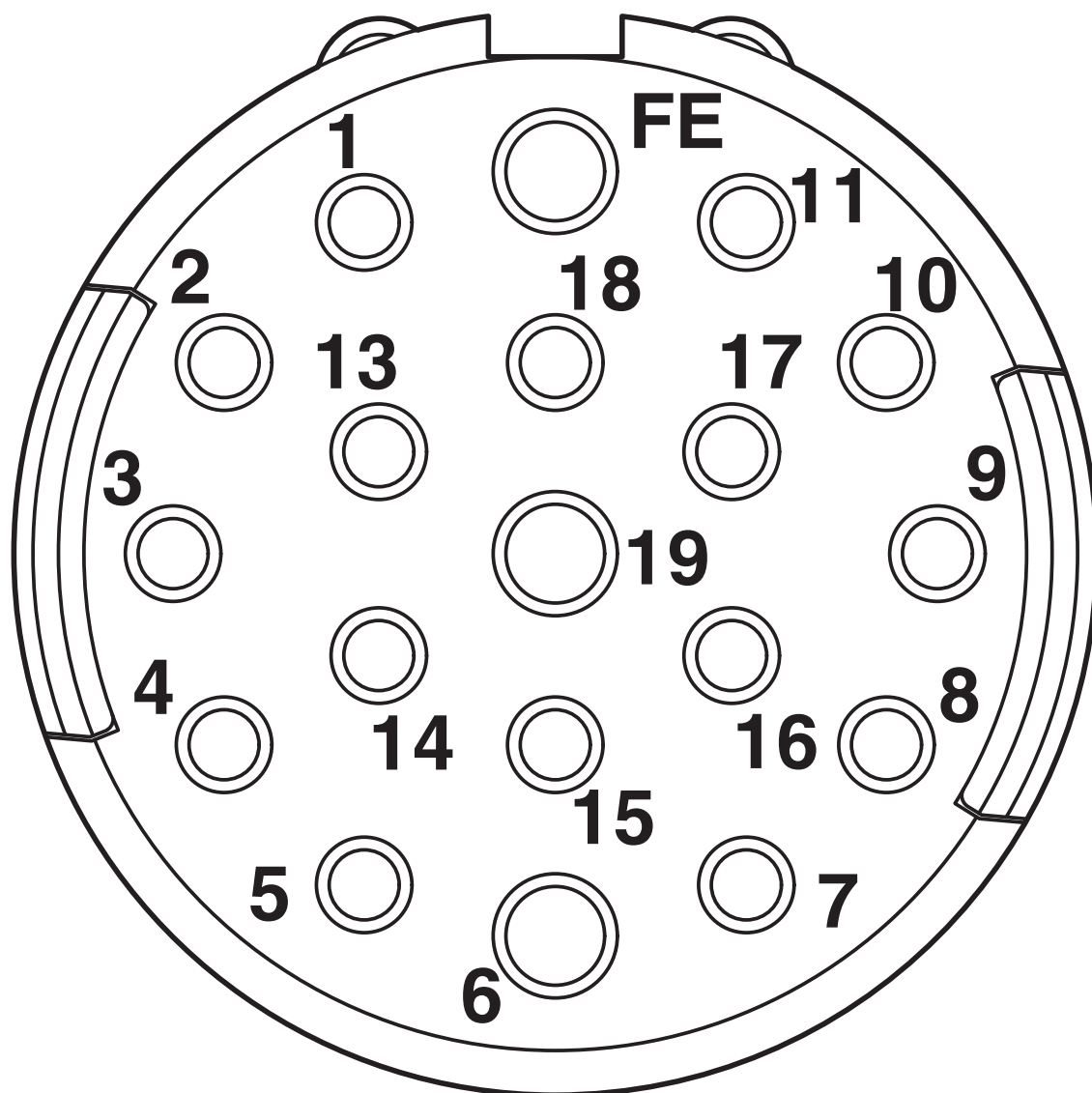
|                                   |                                                                      |
|-----------------------------------|----------------------------------------------------------------------|
| Housing material                  | Turned parts: copper zinc alloy (CuZn), die-cast 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/be/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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## Accessories

### RC-11S2000 - Crimp contact

1596772

<https://www.phoenixcontact.com/be/products/1596772>



Crimp contact, Socket, turned, Single contact, contact diameter: 1 mm, crimp range: 0.08 mm<sup>2</sup> ... 0.22 mm<sup>2</sup>, Contact release tool not necessary for the 12- and 17-pos. crimp versions of the M23-PRO series, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1241093

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### RC-12S2000 - Crimp contact

1599600

<https://www.phoenixcontact.com/be/products/1599600>



Crimp contact, Socket, turned, Single contact, contact diameter: 1 mm, crimp range: 0.14 mm<sup>2</sup> ... 0.56 mm<sup>2</sup>, Contact release tool not necessary for the 12- and 17-pos. crimp versions of the M23-PRO series, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1241093



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### RC-1KS2000 - Crimp contact

1602998

<https://www.phoenixcontact.com/be/products/1602998>



Crimp contact, Socket, turned, Single contact, contact diameter: 1 mm, crimp range: 0.5 mm<sup>2</sup> ... 1 mm<sup>2</sup>, Contact release tool not necessary for the 12- and 17-pos. crimp versions of the M23-PRO series, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1241572

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### RC-15S2000 - Crimp contact

1623775

<https://www.phoenixcontact.com/be/products/1623775>



Crimp contact, Socket, turned, contact diameter: 1.5 mm, crimp range: 0.5 mm<sup>2</sup> .. 1 mm<sup>2</sup>, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1244969

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



## RC-15S2200 - Crimp contact

1627290

<https://www.phoenixcontact.com/be/products/1627290>



Crimp contact, Socket, turned, contact diameter: 1.5 mm, crimp range: 0.08 mm<sup>2</sup> ... 0.22 mm<sup>2</sup>, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1245474

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## SF-Z0027 - Hook wrench

1607455

<https://www.phoenixcontact.com/be/products/1607455>



Hook wrench, series: RC, UC, RF, SF

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



## SF-Z0028 - Torque screwdriver

1607456

<https://www.phoenixcontact.com/be/products/1607456>

Torque screwdriver, series: RC, UC, SH, SF



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## RF-Z0003 - Square mounting flange

1607905

<https://www.phoenixcontact.com/be/products/1607905>



Square mounting flange, Axial seal, 4xM3, flange dimensions: 35 mm x 35 mm, series: RF, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1242369

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## RF-Z0007 - Special wrench

1614347

<https://www.phoenixcontact.com/be/products/1614347>

Special wrench, series: RF



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## RF-Z0014 - Color coding

1620588

<https://www.phoenixcontact.com/be/products/1620588>

Color coding, color: green



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

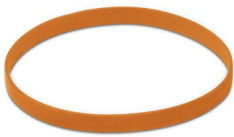


## RF-Z0015 - Color coding

1620592

<https://www.phoenixcontact.com/be/products/1620592>

Color coding, color: orange



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## RF-Z0016 - Color coding

1620593

<https://www.phoenixcontact.com/be/products/1620593>

Color coding, color: black



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



## CA-Z0077 - Metal protective cap

1627224

<https://www.phoenixcontact.com/be/products/1627224>



Metal protective cap, degree of protection: IP67, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1245447

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## PROT-M23-SG-IT-IP20 - Plastic protective cap

1577206

<https://www.phoenixcontact.com/be/products/1577206>



Plastic protective cap, M23, degree of protection: IP20, series: CA, RC, RF, UC, RM

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