

# CA-1RP1N8A8008 - Cable connector



1623839

<https://www.phoenixcontact.com/be/products/1623839>

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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: Pin, 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.: 1245001

## 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                          | 1623839            |
| Packing unit                         | 1 pc               |
| Minimum order quantity               | 1 pc               |
| Sales key                            | ABRAEA             |
| Product key                          | ABRAEA             |
| Catalog page                         | Page 87 (C-2-2019) |
| GTIN                                 | 4055626228549      |
| Weight per piece (including packing) | 90,5 g             |
| Weight per piece (excluding packing) | 87,8 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) |
| Data management status |                                 |
| Article revision       | 03                              |

### 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 mm²                                                                                            |
| Litz wire cross-section <b>Power contacts</b> max.  | 1 mm²                                                                                               |
| Rated current <b>Power contacts</b>                 | 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 <b>Signal contacts</b>             | 1 mm                                                                                                |
| Litz wire cross-section <b>Signal contacts</b> min. | 0.08 mm²                                                                                            |
| Litz wire cross-section <b>Signal contacts</b> max. | 1 mm²                                                                                               |
| Nominal current per signal contact                  | 8 A                                                                                                 |
| 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/be/products/1623839>

|  <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                                    | e6e17a48-1495-4052-b3b1-d5375b716bb8                                                                                                                                                                                              |

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## Accessories

### RC-15P2010 - Crimp contact

1623776

<https://www.phoenixcontact.com/be/products/1623776>



Crimp contact, Pin, turned, contact diameter: 1 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.: 1244971

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### RC-15P2020 - Crimp contact

1623777

<https://www.phoenixcontact.com/be/products/1623777>



Crimp contact, Pin, turned, contact diameter: 1 mm, crimp range: 0.14 mm<sup>2</sup> ... 0.56 mm<sup>2</sup>, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1244971

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## RC-15P2030 - Crimp contact

1623778

<https://www.phoenixcontact.com/be/products/1623778>



Crimp contact, Pin, turned, contact diameter: 1 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.: 1244972

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## RC-15P2200 - Crimp contact

1627292

<https://www.phoenixcontact.com/be/products/1627292>



Crimp contact, Pin, 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.: 1245475

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### RC-15P2300 - Crimp contact

1627291

<https://www.phoenixcontact.com/be/products/1627291>



Crimp contact, Pin, turned, contact diameter: 1.5 mm, crimp range: 0.14 mm<sup>2</sup> ... 0.56 mm<sup>2</sup>, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1245475

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### RC-15P2000 - Crimp contact

1623779

<https://www.phoenixcontact.com/be/products/1623779>



Crimp contact, Pin, 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.: 1244973

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<https://www.phoenixcontact.com/be/products/1623839>



## RC-15P2100 - Crimp contact

1623780

<https://www.phoenixcontact.com/be/products/1623780>



Crimp contact, Pin, leading, 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.: 1244974

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## RF-Z0014 - Color coding

1620588

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

Color coding, color: green



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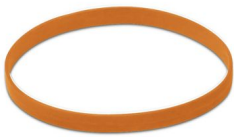
<https://www.phoenixcontact.com/be/products/1623839>

## 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/1623839>



## 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

## SF-Z0028 - Torque screwdriver

1607456

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



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

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<https://www.phoenixcontact.com/be/products/1623839>



## SF-Z0027 - Hook wrench

1607455

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



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

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## RF-Z0007 - Special wrench

1614347

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



Special wrench, series: RF

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<https://www.phoenixcontact.com/be/products/1623839>



## 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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