

# CA-09P1N8AT0DNS - Cable connector



1619439

<https://www.phoenixcontact.com/pc/products/1619439>

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M23, Cable connector, series: CA, angled, shielded: yes, SPEEDCON, No. of pos.: 8+1, 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.: 1243557



## Your advantages

- Angled cable outlet for confined spaces
- Can be adapted to various applications, thanks to adjustable cable outlet direction
- 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                          | 1619439                        |
| Packing unit                         | 1 pc                           |
| Minimum order quantity               | 1 pc                           |
| Note                                 | Made to order (non-returnable) |
| Product key                          | ABRAED                         |
| Catalog page                         | Page 90 (C-2-2019)             |
| GTIN                                 | 4046356824088                  |
| Weight per piece (including packing) | 189 g                          |
| Weight per piece (excluding packing) | 189 g                          |
| Customs tariff number                | 85366990                       |
| Country of origin                    | DE                             |

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## Technical data

### Notes

|         |                                                        |
|---------|--------------------------------------------------------|
| General | Order crimp contacts 8 x Ø 1 mm, 1 x Ø 2 mm separately |
|---------|--------------------------------------------------------|

### Product properties

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

### Connector

#### Insulating body

|                                    |                                                                           |
|------------------------------------|---------------------------------------------------------------------------|
| Note                               | Order information: Order crimp contacts 8 x Ø 1 mm, 1 x Ø 2 mm separately |
| Coding                             | N                                                                         |
| Insulation body material           | PA 6.6                                                                    |
| Connection method                  | Crimp connection                                                          |
| Contact switching type             | Pin                                                                       |
| Application                        | Signal                                                                    |
| Number of positions                | 9                                                                         |
| Direction of rotation              | Standard                                                                  |
| Connection profile                 | 8+1                                                                       |
| Contact diameter                   | 2 mm                                                                      |
| <b>Power contacts</b>              |                                                                           |
| Litz wire cross-section            | 1 mm <sup>2</sup>                                                         |
| Litz wire cross-section            | 2.5 mm <sup>2</sup>                                                       |
| Rated current                      | 20 A                                                                      |
| Rated voltage                      | 48 V AC                                                                   |
|                                    | 74 V DC                                                                   |
| Rated surge voltage                | 1.5 kV                                                                    |
| Overvoltage category               | III                                                                       |
| Degree of pollution                | 3                                                                         |
| Contact diameter                   | 1 mm                                                                      |
| <b>Signal contacts</b>             |                                                                           |
| Litz wire cross-section            | 0.08 mm <sup>2</sup>                                                      |
| Litz wire cross-section            | 1 mm <sup>2</sup>                                                         |
| Nominal current per signal contact | 8 A                                                                       |

#### Housing

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

#### Seal

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1619439

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

## Environmental and real-life conditions

### Ambient conditions

|                                          |                   |
|------------------------------------------|-------------------|
| Ambient temperature (operation)          | -40 °C ... 125 °C |
| Ambient temperature (storage/transport)  | 15 °C ... 25 °C   |
| Permissible humidity (storage/transport) | 50 % ... 65 %     |

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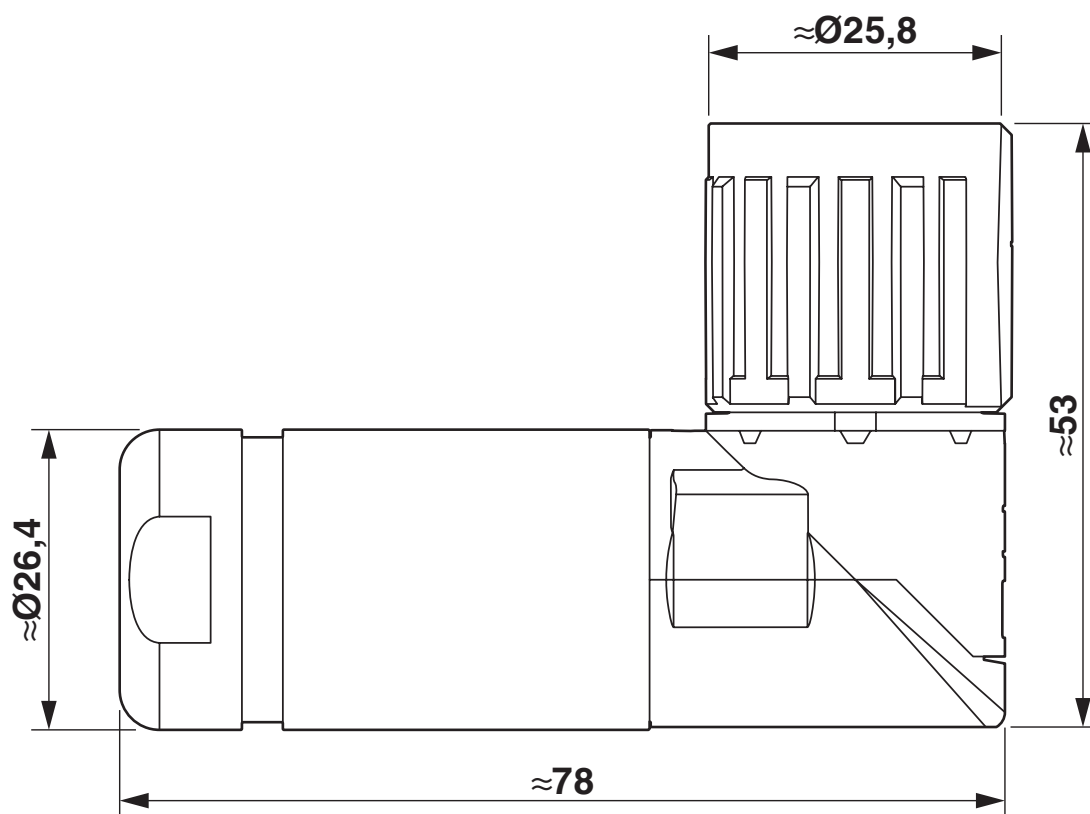
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## Drawings

Dimensional drawing



Dimensional drawing

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Schematic diagram



Connector pin assignment

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/pc/products/1619439>

|  <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                  | 12 A                  | - 14              | -                           |
| Signal                                                                                                                                   | 48 V                  | 4 A                   | - 20              | -                           |

|  <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                  | 20 A                  | - 14              | -                           |
| Signal                                                                                                                                  | 48 V                  | 6 A                   | - 20              | -                           |

|                         |  |  |  |  |
|-------------------------|--|--|--|--|
| <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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1619439

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## Environmental product compliance

|            |                                                                                                              |
|------------|--------------------------------------------------------------------------------------------------------------|
| REACH SVHC | Lead 7439-92-1                                                                                               |
| China RoHS | Environmentally Friendly Use Period = 50 years                                                               |
|            | For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads" |

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1619439

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## Accessories

### RC-5CP2000 - Crimp contact

1603513

<https://www.phoenixcontact.com/pc/products/1603513>



Crimp contact, Pin, turned, contact diameter: 2 mm, crimp range: 1 mm<sup>2</sup> ... 1.5 mm<sup>2</sup>, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1241634

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### RC-5AP2000 - Crimp contact

1603505

<https://www.phoenixcontact.com/pc/products/1603505>



Crimp contact, Pin, turned, contact diameter: 2 mm, crimp range: 1.5 mm<sup>2</sup> ... 2.5 mm<sup>2</sup>, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1241634

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1619439

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## RC-5SP2000 - Crimp contact

1603529

<https://www.phoenixcontact.com/pc/products/1603529>



Crimp contact, Pin, turned, contact diameter: 2 mm, crimp range: 0.5 mm<sup>2</sup> ... 0.75 mm<sup>2</sup>, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1241632

## SF-Z0028 - Torque screwdriver

1607456

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



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

## CA-09P1N8AT0DNS - Cable connector

1619439

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## SF-Z0027 - Hook wrench

1607455

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



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

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## RF-Z0014 - Color coding

1620588

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



Color coding, color: green

# CA-09P1N8AT0DNS - Cable connector

1619439

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## RF-Z0015 - Color coding

1620592

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

Color coding, color: orange



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## RF-Z0016 - Color coding

1620593

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

Color coding, color: black



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

1577206

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



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

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## RC-11P2000 - Crimp contact

1596770

<https://www.phoenixcontact.com/pc/products/1596770>



Crimp contact, Pin, 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.: 1240882

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1619439

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## RC-12P2000 - Crimp contact

1597862

<https://www.phoenixcontact.com/pc/products/1597862>



Crimp contact, Pin, 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.: 1240882

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## RC-1KP2000 - Crimp contact

1602996

<https://www.phoenixcontact.com/pc/products/1602996>



Crimp contact, Pin, 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.: 1241571

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1619439

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## RC-22P2000 - Crimp contact

1603321

<https://www.phoenixcontact.com/pc/products/1603321>



Crimp contact, Pin, rolled, Single contact, contact diameter: 1 mm, crimp range: 0.22 mm<sup>2</sup> ... 0.56 mm<sup>2</sup>, Single contact, Item is lead-free in accordance with RoHS II without Exemption 6c (Pb < 0.1 %)

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## RC-22P2300 - Crimp contact

1603324

<https://www.phoenixcontact.com/pc/products/1603324>



Crimp contact, Pin, rolled, Taped product, number of pieces per reel: 500, contact diameter: 1 mm, crimp range: 0.22 mm<sup>2</sup> ... 0.56 mm<sup>2</sup>, Item is lead-free in accordance with RoHS II without Exemption 6c (Pb < 0.1 %)

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1619439

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## RC-22P2400 - Crimp contact

1603325

<https://www.phoenixcontact.com/pc/products/1603325>



Crimp contact, Pin, rolled, Taped product, number of pieces per reel: 10000, contact diameter: 1 mm, crimp range: 0.22 mm<sup>2</sup> ... 0.56 mm<sup>2</sup>, Item is lead-free in accordance with RoHS II without Exemption 6c (Pb < 0.1 %)

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## RC-21P2000 - Crimp contact

1603310

<https://www.phoenixcontact.com/pc/products/1603310>



Crimp contact, Pin, rolled, Single contact, contact diameter: 1 mm, crimp range: 0.08 mm<sup>2</sup> ... 0.22 mm<sup>2</sup>, Single contact

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1619439

<https://www.phoenixcontact.com/pc/products/1619439>

## RC-21P2300 - Crimp contact

1603313

<https://www.phoenixcontact.com/pc/products/1603313>



Crimp contact, Pin, rolled, Taped product, number of pieces per reel: 500,  
contact diameter: 1 mm, crimp range: 0.08 mm<sup>2</sup> ... 0.22 mm<sup>2</sup>

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## RC-21P2400 - Crimp contact

1611637

<https://www.phoenixcontact.com/pc/products/1611637>



Crimp contact, Pin, rolled, Taped product, number of pieces per reel: 10000,  
contact diameter: 1 mm, crimp range: 0.08 mm<sup>2</sup> ... 0.22 mm<sup>2</sup>

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