

# CA-09S1N8AT007S - Cable connector

1619388

<https://www.phoenixcontact.com/us/products/1619388>



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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: Socket, Crimp connection, cable diameter range: 6 mm ... 10 mm, coding: N, this item is expected to be lead-free from Q4 2025 in accordance with RoHS II without exception 6c (Pb < 0.1%), a lead-free alternative is possible on request in advance

## 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                          | 1619388                        |
| Packing unit                         | 1 pc                           |
| Minimum order quantity               | 1 pc                           |
| Note                                 | Made to order (non-returnable) |
| Sales key                            | AB31                           |
| Product key                          | ABRAED                         |
| GTIN                                 | 4046356824590                  |
| Weight per piece (including packing) | 196.4 g                        |
| Weight per piece (excluding packing) | 182.464 g                      |
| Customs tariff number                | 85366990                       |
| Country of origin                    | DE                             |

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## Technical data

### Notes

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

### Product properties

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

### Connector

#### Connection 1

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

#### Insulating body

|                                                        |                                                                           |
|--------------------------------------------------------|---------------------------------------------------------------------------|
| Note                                                   | Order information: Order crimp contacts 8 x Ø 1 mm, 1 x Ø 2 mm separately |
| Coding                                                 | N                                                                         |
| Material (Insulating body)                             | PA 6.6                                                                    |
| Connection method                                      | Crimp connection                                                          |
| Contact switching type                                 | Socket                                                                    |
| Application                                            | Signal                                                                    |
| Number of positions                                    | 9                                                                         |
| Direction of rotation                                  | Standard                                                                  |
| Connection profile                                     | 8+1                                                                       |
| Number Contact (Contact group 1)                       | 1                                                                         |
| Diameter Contact (Contact group 1)                     | 2 mm                                                                      |
| Litz wire cross-section min. Contact (Contact group 1) | 1 mm <sup>2</sup>                                                         |
| Litz wire cross-section max. Contact (Contact group 1) | 2.5 mm <sup>2</sup>                                                       |
| Rated current Contact (Contact group 1)                | 20 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                                   | III                                                                       |
| Degree of pollution                                    | 3                                                                         |
| Number Contact (Contact group 2)                       | 8                                                                         |
| Diameter Contact (Contact group 2)                     | 1 mm                                                                      |
| Litz wire cross-section min. Contact (Contact group 2) | 0.08 mm <sup>2</sup>                                                      |
| Litz wire cross-section max. Contact (Contact group 2) | 1 mm <sup>2</sup>                                                         |
| Nominal current per signal contact                     | 8 A                                                                       |

#### Housing

|                 |                         |
|-----------------|-------------------------|
| Type            | Cable connector housing |
| Thread type     | M23                     |
| Design          | angled                  |
| Type of locking | SPEEDCON                |

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|                                   |       |
|-----------------------------------|-------|
| Pg screw connection               | none  |
| Housing material                  | Metal |
| Degree of protection (plugged in) | IP67  |

## Seal

|                         |                |
|-------------------------|----------------|
| External cable diameter | 6 mm ... 10 mm |
| Seal material           | NBR            |

## Environmental and real-life conditions

### Ambient conditions

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

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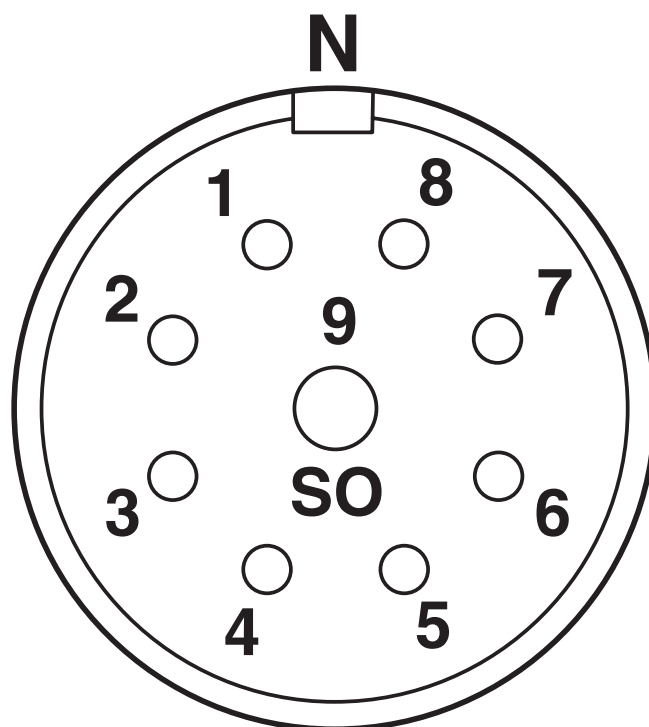
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## Drawings

Schematic diagram



Connector pin assignment

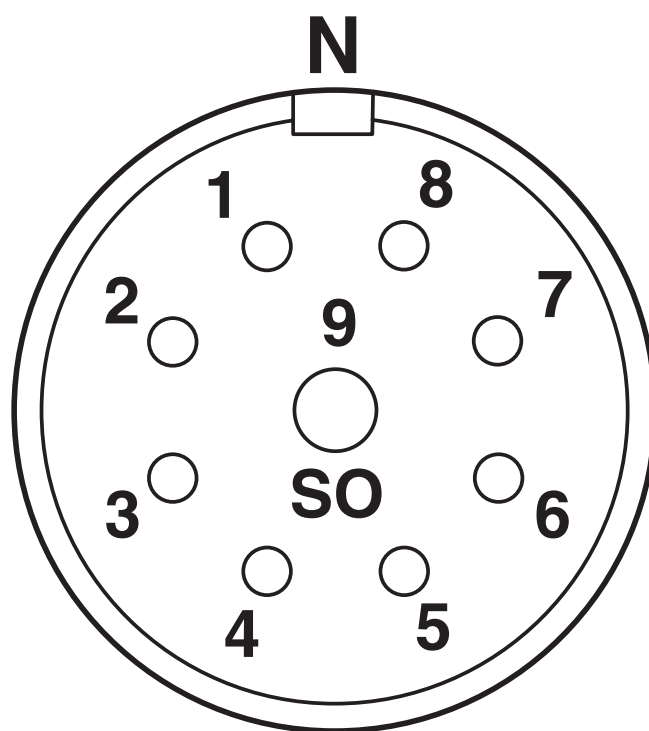
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Schematic diagram



Connector pin assignment

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1619388>

|  <b>cUL Recognized</b><br>Approval ID: E335019-20141210 |                                |                                |                   |                               |
|------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|--------------------------------|-------------------|-------------------------------|
|                                                                                                                                          | Nominal voltage U <sub>N</sub> | Nominal current I <sub>N</sub> | Cross section AWG | Cross section mm <sup>2</sup> |
| keine                                                                                                                                    |                                |                                |                   |                               |
| Power                                                                                                                                    | 48 V                           | 12 A                           | 14                | -                             |
| Signal                                                                                                                                   | 48 V                           | 4 A                            | 20                | -                             |

|  <b>UL Recognized</b><br>Approval ID: E335019-20141210 |                                |                                |                   |                               |
|-----------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|--------------------------------|-------------------|-------------------------------|
|                                                                                                                                         | Nominal voltage U <sub>N</sub> | Nominal current I <sub>N</sub> | Cross section AWG | Cross section mm <sup>2</sup> |
| keine                                                                                                                                   |                                |                                |                   |                               |
| Power                                                                                                                                   | 48 V                           | 20 A                           | 14                | -                             |
| Signal                                                                                                                                  | 48 V                           | 6 A                            | 20                | -                             |

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27440116 |
| ECLASS-15.0 | 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                                | ab84b11c-f7c9-4abd-a3ea-b5ec6b7c1b84 |

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