

# CA-09P1N8AT006S - Cable connector



1619413

<https://www.phoenixcontact.com/us/products/1619413>

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M23, Cable connector, application: Signal, series: CA, angled, shielded: yes, SPEEDCON, No. of pos.: 8+1, Direction of rotation: Standard, contact connection type: Pin, Crimp connection, cable diameter range: 4 mm ... 6 mm, coding: N. This product is in the process of being discontinued. This product must no longer be considered for new projects. Please contact your sales representative for alternatives.



The figure shows the 6-pos. product version with solder contacts

## 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                          | 1619413                        |
| Packing unit                         | 1 pc                           |
| Minimum order quantity               | 1 pc                           |
| Note                                 | Made to order (non-returnable) |
| Sales key                            | AB31                           |
| Product key                          | ABRAED                         |
| GTIN                                 | 4046356824347                  |
| Weight per piece (including packing) | 188 g                          |
| Weight per piece (excluding packing) | 181.979 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

#### 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                          | Pin   |
| Application                                     | Signal  |
| Number of positions                             | 9   |
| Direction of rotation                           | Standard  |
| Connection profile                              | 8+1   |
| Number (Contact group 1)                        | 1   |
| Contact diameter (Contact group 1)              | 2 mm  |
| Litz wires Min. cross section (Contact group 1) | 1 mm <sup>2</sup>   |
| Litz wires Max. cross section (Contact group 1) | 2.5 mm <sup>2</sup>   |
| Rated current Contact (Contact group 1)         | 20 A  |
| 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 group 2)                        | 8   |
| Contact diameter (Contact group 2)              | 1 mm  |
| Litz wires Max. cross section (Contact group 2) | 1 mm <sup>2</sup>   |
| Rated current Contact (Contact group 2)         | 8 A   |

#### Housing

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

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## Seal

|                         |               |
|-------------------------|---------------|
| External cable diameter | 4 mm ... 6 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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## 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/1619413>

|  <b>cUL Recognized</b><br>Approval ID: E335019-20141210 |                       |                       |                   |                             |
|--|-----------------------|-----------------------|-------------------|-----------------------------|
|  | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| keine  |                       |                       |                   |                             |
| Power  | 48 V                  | 12 A                  | 14                | -                           |
| Signal   | 48 V                  | 4 A                   | 20                | -                           |

|  <b>UL Recognized</b><br>Approval ID: E335019-20141210 |                       |                       |                   |                             |
|---|-----------------------|-----------------------|-------------------|-----------------------------|
|   | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| 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 10.0 | EC002635 |
|-----------|----------|

### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 21.0 | 39121400 |
|-------------|----------|

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## Environmental product compliance

### EU RoHS

|   |                    |
|---|--------------------|
| Fulfills EU RoHS substance requirements | Yes, No exemptions |
|---|--------------------|

### China RoHS

|  |  |
|--|--|
| Environment friendly use period (EFUP) | EFUP-E                                   |
|  | No hazardous substances above the limits |

### EU REACH SVHC

|                                     |                            |
|-------------------------------------|----------------------------|
| REACH candidate substance (CAS No.) | No substance above 0.1 wt% |
|-------------------------------------|----------------------------|

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Phoenix Contact USA  
586 Fulling Mill Road  
Middletown, PA 17057, United States  
(+717) 944-1300  
[info@phoenixcon.com](mailto:info@phoenixcon.com)