

# CA-1RP1N8A9006 - Coupler connector

1624013

<https://www.phoenixcontact.com/us/products/1624013>



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M23, Coupler connector, series: CA, straight, shielded: yes, for standard and SPEEDCON interlock, No. of pos.: 16+2+FE, Direction of rotation: Standard, contact connection type: Pin, Crimp connection, cable diameter range: 4 mm ... 6 mm, coding: N, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1245048

## 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                          | 1624013                        |
| Packing unit                         | 1 pc                           |
| Minimum order quantity               | 1 pc                           |
| Note                                 | Made to order (non-returnable) |
| Sales key                            | AB31                           |
| Product key                          | ABRAEG                         |
| Catalog page                         | Page 89 (C-2-2019)             |
| GTIN                                 | 4055626227863                  |
| Weight per piece (including packing) | 96 g                           |
| Weight per piece (excluding packing) | 96 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) |
|--------------|---------------------------------|

### 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 mm <sup>2</sup>  |
| Litz wire cross-section <b>Power contacts</b> max.  | 1 mm <sup>2</sup>   |
| Rated current <b>Power contacts</b>                 | 10 A  |
| Note  | for max. connection cross section   |
| Rated voltage                                       | 48 V AC<br>74 V DC  |
| Rated surge voltage                                 | 1.5 kV  |
| Overshoot 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 mm <sup>2</sup>  |
| Litz wire cross-section <b>Signal contacts</b> max. | 1 mm <sup>2</sup>   |
| Nominal current per signal contact                  | 8 A   |
| Rated voltage Signal contact                        | 48 V AC   |
| Rated surge voltage                                 | 1.5 kV  |
| Overshoot category                                  | III   |
| Degree of pollution                                 | 3   |
| Installation height                                 | 2000 m  |

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## Housing

|                                   |  |
|-----------------------------------|--|
| Housing material                  | Turned parts: copper zinc alloy (CuZn), die-cast parts: zinc (GD-Zn) |
| Type of locking                   | for standard and SPEEDCON interlock                                  |
| Pg screw connection               | none   |
| Degree of protection (plugged in) | IP67   |
| Thread type                       | M23  |

## Seal

|                         |               |
|-------------------------|---------------|
| External cable diameter | 4 mm ... 6 mm |
| Seal material           | NBR           |

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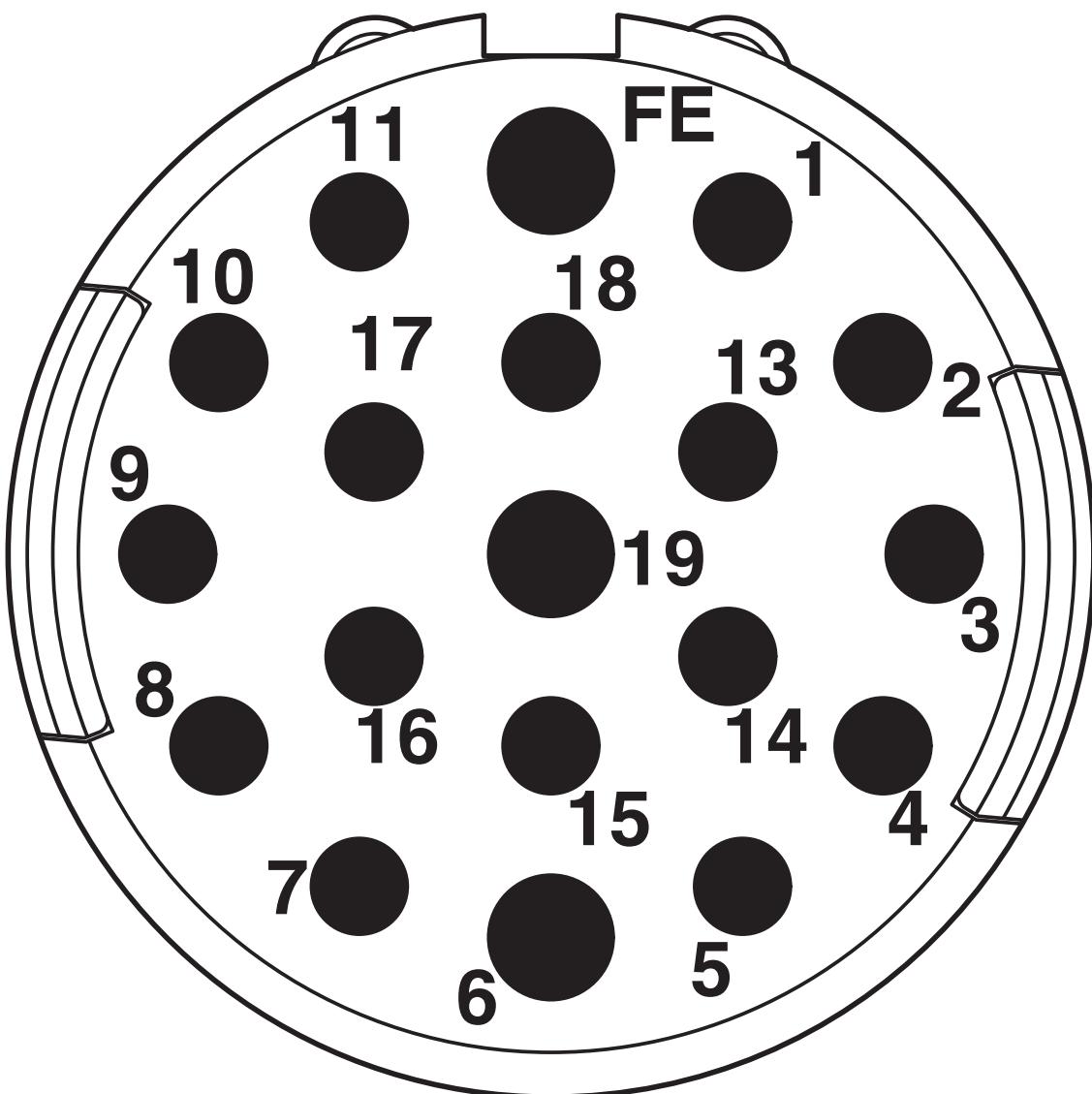
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## Drawings

Schematic diagram



Connector pin assignment

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## Approvals

ⓘ To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1624013>

| <b>cUL Recognized</b><br>Approval ID: E335019-20141210 |                       |                       |                   |                      |
|--|-----------------------|-----------------------|-------------------|----------------------|
|  | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
| 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 $mm^2$ |
| Power   | 48 V                  | 10 A                  | 18 - 18           | -                    |
| Signal  | 48 V                  | 8 A                   | 18 - 18           | -                    |

**cULus Recognized**

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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                                | 8dd292a5-febf-4a16-a74e-d4133b4e6f68 |

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