

# CA-09P1N8A9008 - Coupler connector



1620033

<https://www.phoenixcontact.com/nl/products/1620033>

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

M23, Coupler connector, series: CA, straight, shielded: yes, for standard and SPEEDCON interlock, No. of pos.: 8+1, Direction of rotation: Standard, contact connection type: Pin, Crimp connection, cable diameter range: 10 mm ... 14.5 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. Alternative products: 1629121

## 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                          | 1620033                        |
| Packing unit                         | 1 pc                           |
| Minimum order quantity               | 1 pc                           |
| Note                                 | Made to order (non-returnable) |
| Sales key                            | ABRAEG                         |
| Product key                          | ABRAEG                         |
| GTIN                                 | 4046356819626                  |
| Weight per piece (including packing) | 88,4 g                         |
| Weight per piece (excluding packing) | 86,258 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 |
|--------------------|--------------------------------------------------------|

### 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 (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                                                                      |
| 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>                                                         |
| Rated current Contact (Contact group 2)                | 8 A                                                                       |

#### Housing

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

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## Seal

|                         |                   |
|-------------------------|-------------------|
| External cable diameter | 10 mm ... 14.5 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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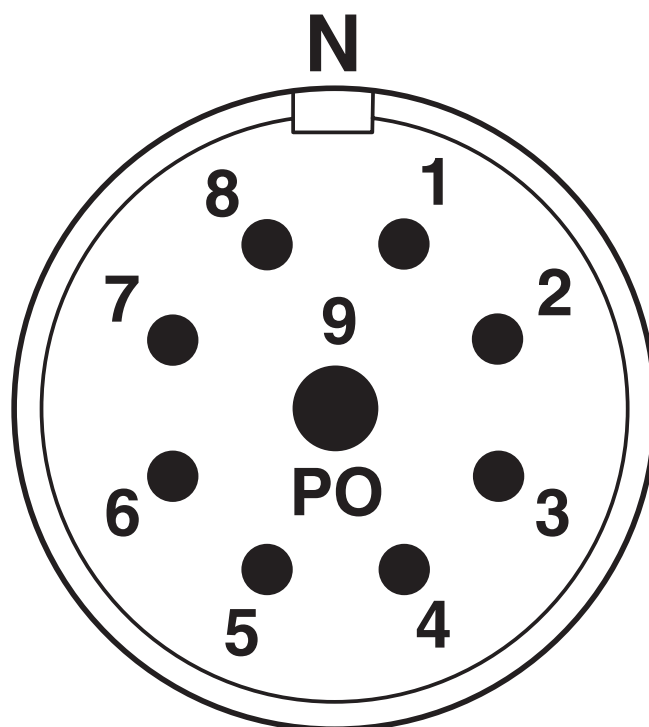
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## Drawings

Schematic diagram



Connector pin assignment

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/nl/products/1620033>

|  <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 B.V.  
Hengelder 56 6902 PA Zevenaar  
Postbus 246 6900 AE Zevenaar  
(0316) 59 17 20  
[sales@phoenixcontact.nl](mailto:sales@phoenixcontact.nl)