

# CA-1RS1N8A90DN - Coupler connector



1624006

<https://www.phoenixcontact.com/us/products/1624006>

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



The figure shows the product with assembled crimp contacts. Please order crimp contacts separately.

M23, Coupler connector, application: Signal, series: CA, straight, shielded: yes, for standard and SPEEDCON interlock, No. of pos.: 16+2+FE, Direction of rotation: Standard, contact connection type: Socket, Crimp connection, cable diameter range: 3 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: 1629100

## 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                          | 1624006       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Sales key                            | AB31          |
| Product key                          | ABRAEG        |
| GTIN                                 | 4055626227818 |
| Weight per piece (including packing) | 94.5 g        |
| Weight per piece (excluding packing) | 88.348 g      |
| Customs tariff number                | 85366990      |
| Country of origin                    | DE            |

# CA-1RS1N8A90DN - Coupler connector



1624006

<https://www.phoenixcontact.com/us/products/1624006>

## Technical data

### Notes

|                    |   |
|--------------------|---|
| Order information: | Order crimp contacts 16 x Ø 1 mm, 3 x Ø 1.5 mm separately   |
| Order information: | When using a specific cable with Ø 3 mm ... 4 mm, it may be necessary to use the special cable seal (1786601) |

### Product properties

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

### Connector

#### Insulating body

|   |  |
|---|--|
| Note  | Order information: Order crimp contacts 16 x Ø 1 mm, 3 x Ø 1.5 mm separately |
| Coding  | N  |
| Material (Insulating body)                      | PA 6.6   |
| Flammability rating according to UL 94          | V0   |
| Insertion/withdrawal cycles                     | 100  |
| Connection method                               | Crimp connection   |
| Contact switching type                          | Socket   |
| Application                                     | Signal   |
| Number of positions                             | 19   |
| Direction of rotation                           | Standard   |
| Connection profile                              | 16+2+FE  |
| Installation height                             | 2000 m   |
| Number (Contact group 1)                        | 3  |
| Contact diameter (Contact group 1)              | 1.5 mm   |
| Litz wires Min. cross section (Contact group 1) | 0.08 mm <sup>2</sup>   |
| Litz wires Max. cross section (Contact group 1) | 1 mm <sup>2</sup>  |
| Rated current Contact (Contact group 1)         | 10 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                            | II   |
| Degree of pollution                             | 3  |
| Number (Contact group 2)                        | 16   |
| 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 (for max. connection cross section)                                      |
| Rated voltage Contact (Contact group 2)         | 48 V AC<br>48 V AC   |
| Rated surge voltage                             | 1.5 kV   |
| Overvoltage category                            | III  |

# CA-1RS1N8A90DN - Coupler connector



1624006

<https://www.phoenixcontact.com/us/products/1624006>

|                     |   |
|---------------------|---|
| Degree of pollution | 3 |
|---------------------|---|

## 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   |

## Seal

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

Drawings

Schematic diagram



Connector pin assignment

# CA-1RS1N8A90DN - Coupler connector




1624006

<https://www.phoenixcontact.com/us/products/1624006>

## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1624006>

|  <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                  | 6 A                   | 18                | -                           |
| Signal   | 48 V                  | 5 A                   | 18                | -                           |

|  <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                  | 10 A                  | 18                | -                           |
| Signal  | 48 V                  | 8 A                   | 18                | -                           |

# CA-1RS1N8A90DN - Coupler connector



1624006

<https://www.phoenixcontact.com/us/products/1624006>

## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27440116 |
| ECLASS-15.0 | 27440116 |

### ETIM

|           |          |
|-----------|----------|
| ETIM 10.0 | EC002635 |
|-----------|----------|

### UNSPSC

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

# CA-1RS1N8A90DN - Coupler connector



1624006

<https://www.phoenixcontact.com/us/products/1624006>

## 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% |
|-------------------------------------|----------------------------|

Phoenix Contact 2026 © - all rights reserved  
<https://www.phoenixcontact.com>

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