

# CA-07S1N8A8007X - Cable connector



1243770

<https://www.phoenixcontact.com/us/products/1243770>

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The figure shows the 6-pos.  
product version

M23, Cable connector, application: Signal, series: CA, straight, shielded: yes, Screw locking mechanism, No. of pos.: 7, Direction of rotation: Standard, contact connection type: Socket, Crimp connection, cable diameter range: 6 mm ... 10 mm, coding: N, Item is lead-free in accordance with RoHS II without Exemption 6c (Pb < 0.1 %)

## 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                          | 1243770       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Product key                          | ABRAEA        |
| GTIN                                 | 4063151404604 |
| Weight per piece (including packing) | 88.7 g        |
| Weight per piece (excluding packing) | 85.23 g       |
| Country of origin                    | DE            |

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## Technical data

### Notes

|                    |                                            |
|--------------------|--------------------------------------------|
| Order information: | Order 7 x Ø 2 mm crimp contacts separately |
|--------------------|--------------------------------------------|

### Product properties

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

### Connector

#### Connection 1

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

#### Insulating body

|                                                 |                                                           |
|-------------------------------------------------|-----------------------------------------------------------|
| Note                                            | Order information: Order crimp contacts 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                             | 7                                                         |
| Direction of rotation                           | Standard                                                  |
| Connection profile                              | 7                                                         |
| Number (Signal contacts)                        | 7                                                         |
| Contact diameter (Signal contacts)              | 2 mm                                                      |
| Litz wires Min. cross section (Signal contacts) | 1 mm <sup>2</sup>                                         |
| Litz wires Max. cross section (Signal contacts) | 2.5 mm <sup>2</sup>                                       |
| Rated current Contact (Signal contacts)         | 20 A (for max. connection cross section)                  |
| Rated voltage Contact (Signal contacts)         | 48 V AC<br>74 V DC                                        |
| Rated surge voltage                             | 1.5 kV                                                    |
| Overvoltage category                            | III                                                       |
| Degree of pollution                             | 3                                                         |

#### Housing

|                                   |                                                                      |
|-----------------------------------|----------------------------------------------------------------------|
| Type                              | Cable connector housing                                              |
| Thread type                       | M23                                                                  |
| Design                            | straight                                                             |
| Type of locking                   | Screw locking mechanism                                              |
| 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

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|                         |                |
|-------------------------|----------------|
| 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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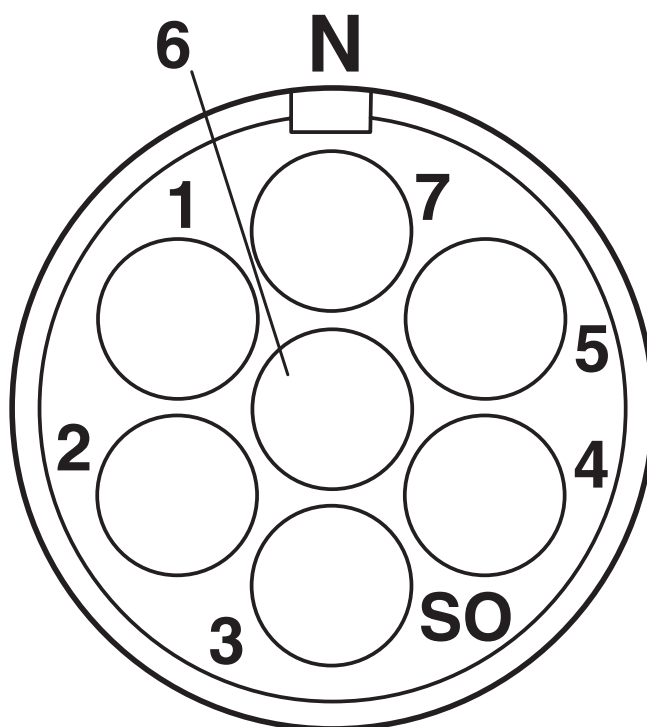
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## Drawings

Schematic diagram



Connector pin assignment

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## Classifications

### ECLASS

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

### ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | EC002635 |
|----------|----------|

### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 21.0 | 39121100 |
|-------------|----------|

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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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