

CA-09S1N12T0DNS - Cable connector



1619442

<https://www.phoenixcontact.com/pc/products/1619442>

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M23, Cable connector, series: CA, angled, shielded: yes, SPEEDCON, No. of pos.: 8+1, Direction of rotation: Standard, contact connection type: Socket, Solder connection, cable diameter range: 3 mm ... 14.5 mm, coding: N, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1243560



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
- Solder connection: proven connection technology for various litz wires

Commercial data

| | |
|--------------------------------------|--------------------------------|
| Item number | 1619442 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Note | Made to order (non-returnable) |
| Product key | ABRAED |
| Catalog page | Page 90 (C-2-2019) |
| GTIN | 4046356824057 |
| Weight per piece (including packing) | 191.2 g |
| Weight per piece (excluding packing) | 191.2 g |
| Customs tariff number | 85366990 |
| Country of origin | DE |

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Technical data

Product properties

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

Connector

Connection 1

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

Insulating body

| | |
|---|---------------------|
| Coding | N |
| Insulation body material | PBT |
| Contact material | CuZn |
| Contact surface material | Ni/Au |
| Insertion/withdrawal cycles | 100 |
| Connection method | Solder connection |
| Contact switching type | Socket |
| Application | Signal |
| Number of positions | 9 |
| Direction of rotation | Standard |
| Connection profile | 8+1 |
| Contact diameter Power contacts | 2 mm |
| Litz wire cross-section Power contacts max. | 2.5 mm ² |
| Rated current Power contacts | 20 A |
| Rated voltage | 48 V AC 74 V DC |
| Rated surge voltage | 1.5 kV |
| Overvoltage category | III |
| Degree of pollution | 3 |
| Contact diameter Signal contacts | 1 mm |
| Litz wire cross-section Signal contacts max. | 1 mm ² |
| Nominal current per signal contact | 8 A |

Housing

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

Seal

| | |
|-------------------------|------------------|
| External cable diameter | 3 mm ... 14.5 mm |
|-------------------------|------------------|

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| | |
|---------------|-----|
| Seal material | NBR |
|---------------|-----|

Environmental and real-life conditions

Ambient conditions

| | |
|--|-------------------|
| Ambient temperature (operation) | -40 °C ... 125 °C |
| Ambient temperature (storage/transport) | 15 °C ... 25 °C |
| Permissible humidity (storage/transport) | 50 % ... 65 % |

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Drawings

Schematic diagram



Connector pin assignment

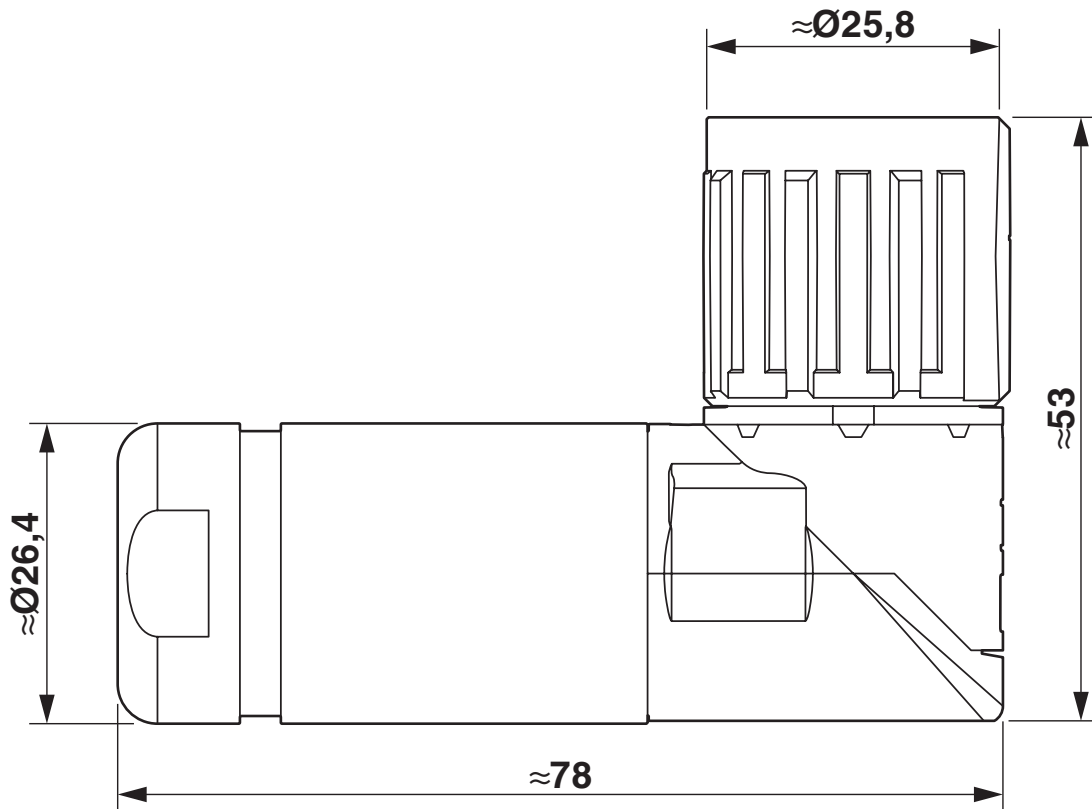
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Dimensional drawing



Dimensional drawing

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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/pc/products/1619442>

|  cUL Recognized Approval ID: E335019-20141210 | | | | |
|--|-----------------------|-----------------------|-------------------|-----------------------------|
| | Nominal voltage U_N | Nominal current I_N | Cross section AWG | Cross section mm^2 |
| Power | 48 V | 12 A | - 14 | - |
| Signal | 48 V | 6 A | - 18 | - |

|  UL Recognized Approval ID: E335019-20141210 | | | | |
|---|-----------------------|-----------------------|-------------------|-----------------------------|
| | Nominal voltage U_N | Nominal current I_N | Cross section AWG | Cross section mm^2 |
| Power | 48 V | 20 A | - 14 | - |
| Signal | 48 V | 8 A | - 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 | d3de830f-cb63-46af-ae6f-6bfcd55854c |

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Accessories

SF-Z0028 - Torque screwdriver

1607456

<https://www.phoenixcontact.com/pc/products/1607456>

Torque screwdriver, series: RC, UC, SH, SF



SF-Z0027 - Hook wrench

1607455

<https://www.phoenixcontact.com/pc/products/1607455>

Hook wrench, series: RC, UC, RF, SF



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RF-Z0014 - Color coding

1620588

<https://www.phoenixcontact.com/pc/products/1620588>

Color coding, color: green



RF-Z0015 - Color coding

1620592

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Color coding, color: orange



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RF-Z0016 - Color coding

1620593

<https://www.phoenixcontact.com/pc/products/1620593>

Color coding, color: black



PROT-M23-SG-IT-IP20 - Plastic protective cap

1577206

<https://www.phoenixcontact.com/pc/products/1577206>

Plastic protective cap, M23, degree of protection: IP20, series: CA, RC, RF, UC, RM



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