

CA-12S1N8AT0DN - Cable connector



1620303

<https://www.phoenixcontact.com/us/products/1620303>

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.



M23, Cable connector, series: CA, angled, shielded: yes, Screw locking mechanism, No. of pos.: 12, Direction of rotation: Standard, contact connection type: Socket, Crimp connection, cable diameter range: 3 mm ... 14.5 mm, coding: N, this item is expected to be lead-free from Q2 2026 in accordance with RoHS II without exception 6c (Pb < 0.1%), a lead-free alternative is possible on request in advance

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
- Crimping connection: vibration- and temperature-resistant assembly

Commercial data

| | |
|--------------------------------------|---------------|
| Item number | 1620303 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | AB31 |
| Product key | ABRAEC |
| GTIN | 4046356817738 |
| Weight per piece (including packing) | 188.6 g |
| Weight per piece (excluding packing) | 181.665 g |
| Customs tariff number | 85366990 |
| Country of origin | DE |

CA-12S1N8AT0DN - Cable connector



1620303

<https://www.phoenixcontact.com/us/products/1620303>

Technical data

Notes

| | |
|--------------------|---|
| Order information: | Order 12 x 1 mm crimp contacts 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

Connection 1

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

Insulating body

| | |
|--|---|
| Note | Order information: Order crimp contacts Ø 1 mm separately |
| Coding | N |
| Material (Insulating body) | PA 6.6 |
| Connection method | Crimp connection |
| Contact switching type | Socket |
| Application | Signal |
| Number of positions | 12 |
| Direction of rotation | Standard |
| Connection profile | 12 |
| Number Contact (Signal contacts) | 12 |
| Diameter Contact (Signal contacts) | 1 mm |
| Litz wire cross-section min. Contact (Signal contacts) | 0.08 mm ² |
| Litz wire cross-section max. Contact (Signal contacts) | 1 mm ² |
| Rated current Contact (Signal contacts) | 8 A (for max. connection cross section) |
| Rated voltage Contact (Signal contacts) | 48 V AC 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 | angled |
| 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 |

CA-12S1N8AT0DN - Cable connector



1620303

<https://www.phoenixcontact.com/us/products/1620303>

| | |
|-----------------------------------|------|
| Degree of protection (plugged in) | IP67 |
|-----------------------------------|------|

Seal

| | |
|-------------------------|------------------|
| External cable diameter | 3 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 % |

CA-12S1N8AT0DN - Cable connector

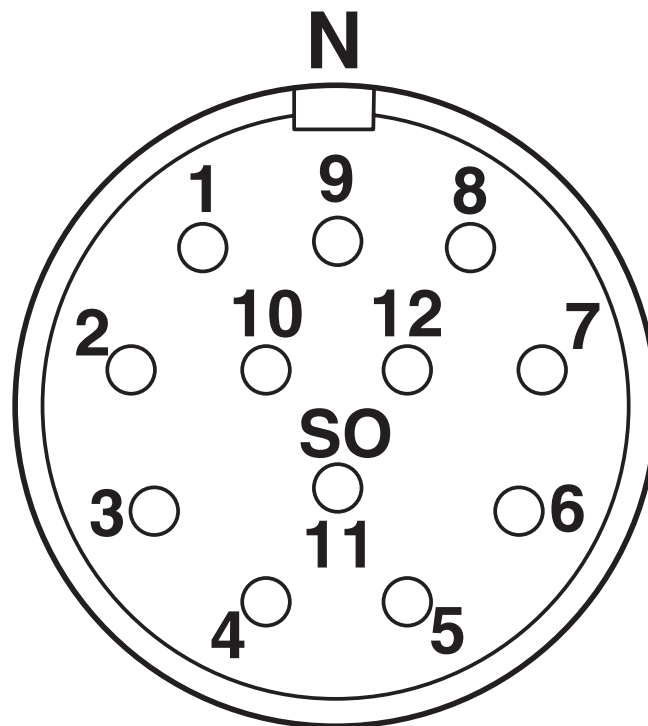
1620303

<https://www.phoenixcontact.com/us/products/1620303>



Drawings

Schematic diagram



Connector pin assignment

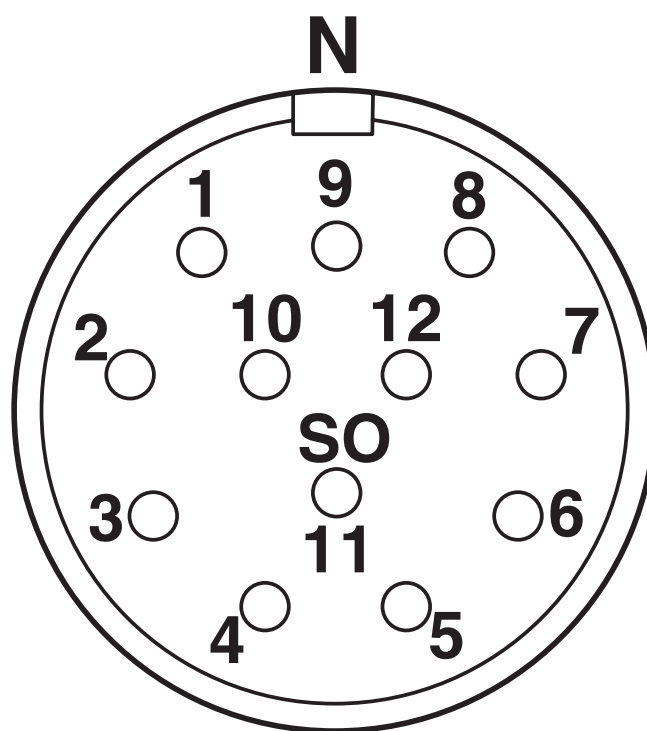
CA-12S1N8AT0DN - Cable connector

1620303

<https://www.phoenixcontact.com/us/products/1620303>



Schematic diagram



Connector pin assignment

CA-12S1N8AT0DN - Cable connector





1620303

<https://www.phoenixcontact.com/us/products/1620303>

Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1620303>

|  cUL Recognized Approval ID: E335019-20141210 | | | | |
|--|--------------------------------|--------------------------------|-------------------|-------------------------------|
| | Nominal voltage U _N | Nominal current I _N | Cross section AWG | Cross section mm ² |
| keine | | | | |
| | 48 V | 4 A | 20 | - |

|  UL Recognized Approval ID: E335019-20141210 | | | | |
|---|--------------------------------|--------------------------------|-------------------|-------------------------------|
| | Nominal voltage U _N | Nominal current I _N | Cross section AWG | Cross section mm ² |
| keine | | | | |
| | 48 V | 6 A | 20 | - |

CA-12S1N8AT0DN - Cable connector



1620303

<https://www.phoenixcontact.com/us/products/1620303>

Classifications

ECLASS

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

ETIM

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

UNSPSC

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

CA-12S1N8AT0DN - Cable connector



1620303

<https://www.phoenixcontact.com/us/products/1620303>

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 | cf66429f-92b4-4cc3-aaf1-7801af2317e7 |

Phoenix Contact 2025 © - 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