

# CA-09S1N12T007 - Cable connector



1620254

<https://www.phoenixcontact.com/us/products/1620254>

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M23, Cable connector, series: CA, angled, shielded: yes, Screw locking mechanism, No. of pos.: 8+1, Direction of rotation: Standard, contact connection type: Socket, Solder connection, cable diameter range: 6 mm ... 10 mm, coding: N, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1244105

## 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
- Solder connection: proven connection technology for various litz wires

## Commercial data

Item number	1620254
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	AB31
Product key	ABRAEC
Catalog page	Page 92 (C-2-2019)
GTIN	4046356818292
Weight per piece (including packing)	190.1 g
Weight per piece (excluding packing)	182.968 g
Customs tariff number	85366990
Country of origin	DE

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## Technical data

### Product properties

Product type	Circular connector (cable-side)
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### Connector

#### Connection 1

Head design	Socket
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#### 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 <b>Power contacts</b>	2 mm
Litz wire cross-section <b>Power contacts</b> max.	2.5 mm <sup>2</sup>
Rated current <b>Power contacts</b>	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 <b>Signal contacts</b>	1 mm
Litz wire cross-section <b>Signal contacts</b> max.	1 mm <sup>2</sup>
Nominal current per signal contact	8 A

#### Housing

Thread type	M23
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
Ambient temperature (storage/transport)	15 °C ... 25 °C
Permissible humidity (storage/transport)	50 % ... 65 %

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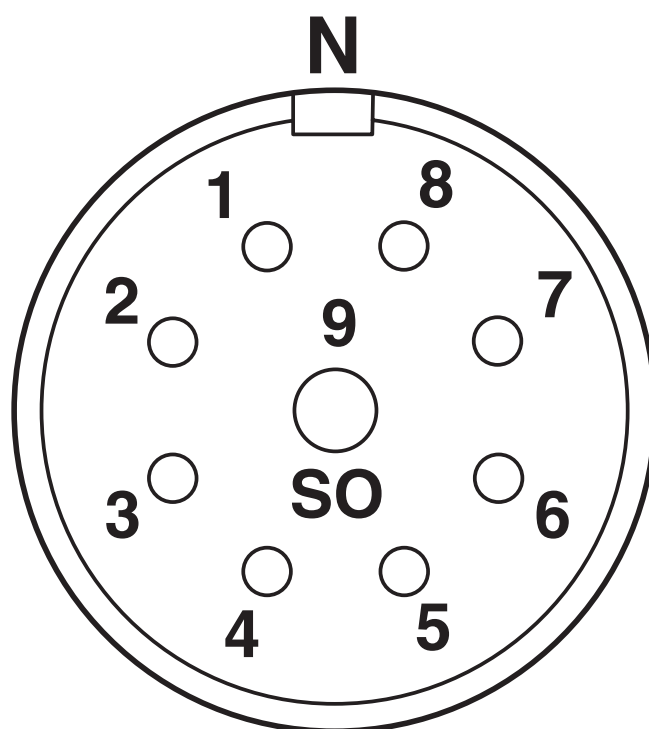
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## Drawings

Schematic diagram



Connector pin assignment

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1620254>

cUL Recognized Approval ID: E335019-20141210				
	Nominal voltage U <sub>N</sub>	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
Power	48 V	12 A	14	-
Signal	48 V	6 A	18	-

UL Recognized Approval ID: E335019-20141210				
	Nominal voltage U <sub>N</sub>	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
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
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### 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	1ac29c3e-0e36-4242-a951-a633b1c20007

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