

CA-09P1N8AT007 - Cable connector



1620251

<https://www.phoenixcontact.com/us/products/1620251>

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.: 8+1, Direction of rotation: Standard, contact connection type: Pin, Crimp 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.: 1244102

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	1620251
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	AB31
Product key	ABRAEC
Catalog page	Page 92 (C-2-2019)
GTIN	4046356818322
Weight per piece (including packing)	187.5 g
Weight per piece (excluding packing)	180.09 g
Customs tariff number	85366990
Country of origin	DE

CA-09P1N8AT007 - Cable connector



1620251

<https://www.phoenixcontact.com/us/products/1620251>

Technical data

Notes

Order information:	Order crimp contacts 8 x Ø 1 mm, 1 x Ø 2 mm separately
--------------------	--

Product properties

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

Connector

Insulating body

Note	Order information: Order crimp contacts 8 x Ø 1 mm, 1 x Ø 2 mm separately
Coding	N
Insulation body material	PA 6.6
Connection method	Crimp connection
Contact switching type	Pin
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 min.	1 mm ²
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 min.	0.08 mm ²
Litz wire cross-section Signal contacts max.	1 mm ²
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

CA-09P1N8AT007 - Cable connector



1620251

<https://www.phoenixcontact.com/us/products/1620251>

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

Seal

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 %

CA-09P1N8AT007 - Cable connector

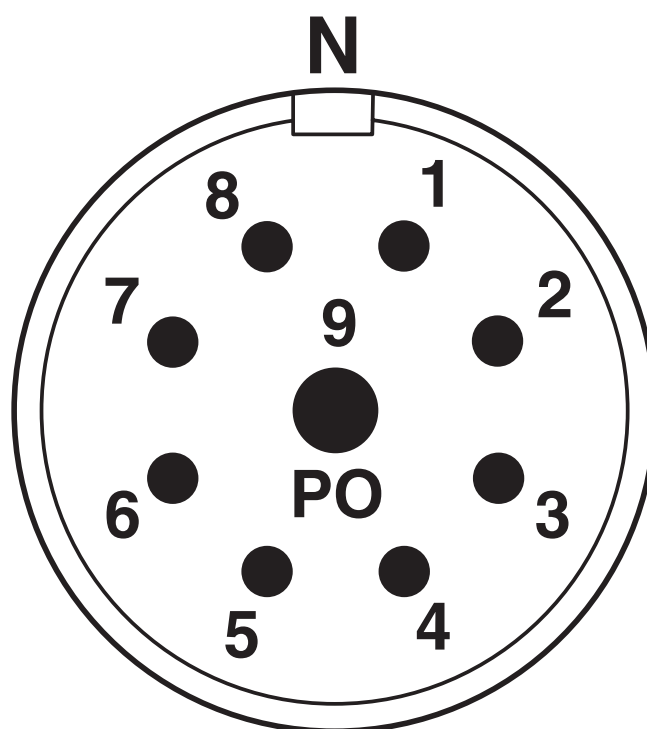
1620251

<https://www.phoenixcontact.com/us/products/1620251>



Drawings

Schematic diagram



Connector pin assignment

CA-09P1N8AT007 - Cable connector



1620251

<https://www.phoenixcontact.com/us/products/1620251>

Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1620251>

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	4 A	20	-

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	6 A	20	-

cULus Recognized				
------------------	--	--	--	--

CA-09P1N8AT007 - Cable connector



1620251

<https://www.phoenixcontact.com/us/products/1620251>

Classifications

ECLASS

ECLASS-11.0	27440102
ECLASS-12.0	27440116
ECLASS-13.0	27440116

ETIM

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

UNSPSC

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

CA-09P1N8AT007 - Cable connector



1620251

<https://www.phoenixcontact.com/us/products/1620251>

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	ac3da112-43d6-4efb-9711-0f8917091f81

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