

# CA-12P1N8A90DN - Coupler connector



1620157

<https://www.phoenixcontact.com/pc/products/1620157>

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, Coupler connector, series: CA, straight, shielded: yes, for standard and SPEEDCON interlock, No. of pos.: 12, Direction of rotation: Standard, contact connection type: Pin, Crimp 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.: 1244046

## 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	1620157
Packing unit	1 pc
Minimum order quantity	1 pc
Product key	ABRAEG
Catalog page	Page 88 (C-2-2019)
GTIN	4046356818889
Weight per piece (including packing)	93.866 g
Weight per piece (excluding packing)	90.4 g
Customs tariff number	85366990
Country of origin	DE

# CA-12P1N8A90DN - Coupler connector



1620157

<https://www.phoenixcontact.com/pc/products/1620157>

## Technical data

### Notes

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

### Product properties

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

### Data management status

Article revision	04
------------------	----

### Connector

#### Insulating body

Note	Order information: Order crimp contacts Ø 1 mm separately
Coding	N
Insulation body material	PA 6.6
Connection method	Crimp connection
Contact switching type	Pin
Application	Signal
Number of positions	12
Direction of rotation	Standard
Connection profile	12
Contact diameter <b>Signal contacts</b>	1 mm
Litz wire cross-section <b>Signal contacts</b> min.	0.08 mm <sup>2</sup>
Litz wire cross-section <b>Signal contacts</b> max.	1 mm <sup>2</sup>
Nominal current per signal contact	8 A
Rated voltage <b>Signal contact</b>	48 V AC
Rated surge voltage	1.5 kV
Overvoltage category	III
Degree of pollution	3

#### Housing

Housing material	Turned parts: copper zinc alloy (CuZn), die-cast parts: zinc (GD-Zn)
Type of locking	for standard and SPEEDCON interlock
Pg screw connection	none
Degree of protection (plugged in)	IP67
Thread type	M23

#### Seal

External cable diameter	3 mm ... 14.5 mm
Seal material	NBR

## Environmental and real-life conditions

# CA-12P1N8A90DN - Coupler connector



1620157

<https://www.phoenixcontact.com/pc/products/1620157>

## Ambient conditions

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

# CA-12P1N8A90DN - Coupler connector

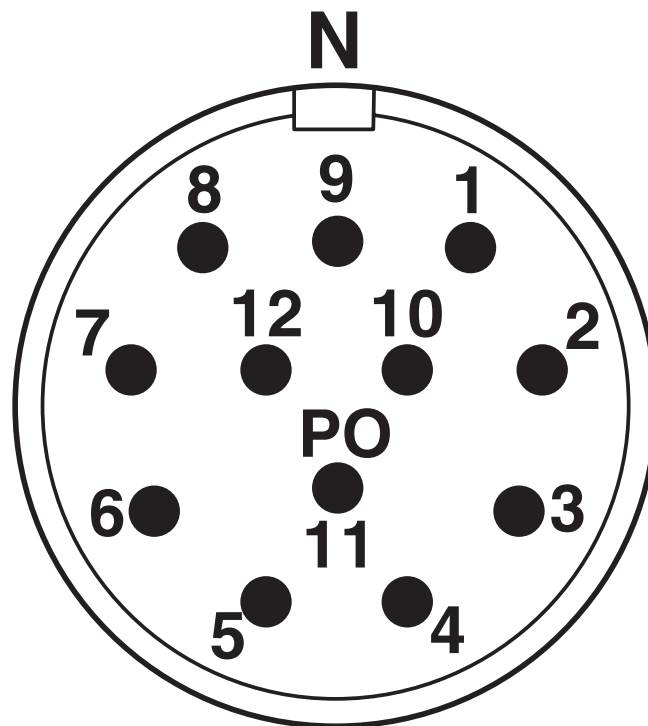


1620157

<https://www.phoenixcontact.com/pc/products/1620157>

## Drawings

Schematic diagram



Connector pin assignment

# CA-12P1N8A90DN - Coupler connector





1620157

<https://www.phoenixcontact.com/pc/products/1620157>

## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/pc/products/1620157>

 <b>cUL Recognized</b> Approval ID: E335019-20141210				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
	48 V	4 A	20 - 20	-

 <b>UL Recognized</b> Approval ID: E335019-20141210				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
	48 V	6 A	20 - 20	-

<b>cULus Recognized</b>				
-------------------------	--	--	--	--

# CA-12P1N8A90DN - Coupler connector



1620157

<https://www.phoenixcontact.com/pc/products/1620157>

## 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-12P1N8A90DN - Coupler connector



1620157

<https://www.phoenixcontact.com/pc/products/1620157>

## 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	ba389231-0cbe-436d-81bb-9d22ad6571ff

Phoenix Contact 2024 © - all rights reserved

<https://www.phoenixcontact.com>

PHOENIX CONTACT GmbH & Co. KG

Flachsmarktstraße 8

D-32825 Blomberg

+49 (0) 5235-3 00

[info@phoenixcontact.com](mailto:info@phoenixcontact.com)