

CA-12P1N1290DN - Coupler connector



1620159

<https://www.phoenixcontact.com/us/products/1620159>

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, Solder cup, cable diameter range: 3 mm ... 14.5 mm, coding: N, this item is expected to be lead-free from Q1 2026 in accordance with RoHS II without exception 6c (Pb < 0.1%), a lead-free alternative is possible on request in advance

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
- Solder connection: proven connection technology for various litz wires

Commercial data

Item number	1620159
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	AB31
Product key	ABRAEG
GTIN	4046356818865
Weight per piece (including packing)	98.766 g
Weight per piece (excluding packing)	92.701 g
Customs tariff number	85366990
Country of origin	DE

CA-12P1N1290DN - Coupler connector



1620159

<https://www.phoenixcontact.com/us/products/1620159>

Technical data

Notes

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

Insulating body

Coding	N
Material (Insulating body)	PBT
Material (Contact)	CuZn
Material (Contact surface)	Ni/Au
Insertion/withdrawal cycles	100
Connection method	Solder cup
Contact switching type	Pin
Application	Signal
Number of positions	12
Direction of rotation	Standard
Connection profile	12
Number Contact (Contact group 1)	0
Rated voltage Contact (Contact group 1)	48 V AC 74 V DC
Rated surge voltage	1.5 kV
Overvoltage category	III
Degree of pollution	3
Number Contact (Contact group 2)	12
Diameter Contact (Contact group 2)	1 mm
Litz wire cross-section max. Contact (Contact group 2)	1 mm ²
Rated current Contact (Contact group 2)	8 A

Housing

Type	Coupling housing
Thread type	M23
Design	straight
Type of locking	for standard and SPEEDCON interlock
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

CA-12P1N1290DN - Coupler connector



1620159

<https://www.phoenixcontact.com/us/products/1620159>

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
---------------------------------	-------------------

CA-12P1N1290DN - Coupler connector

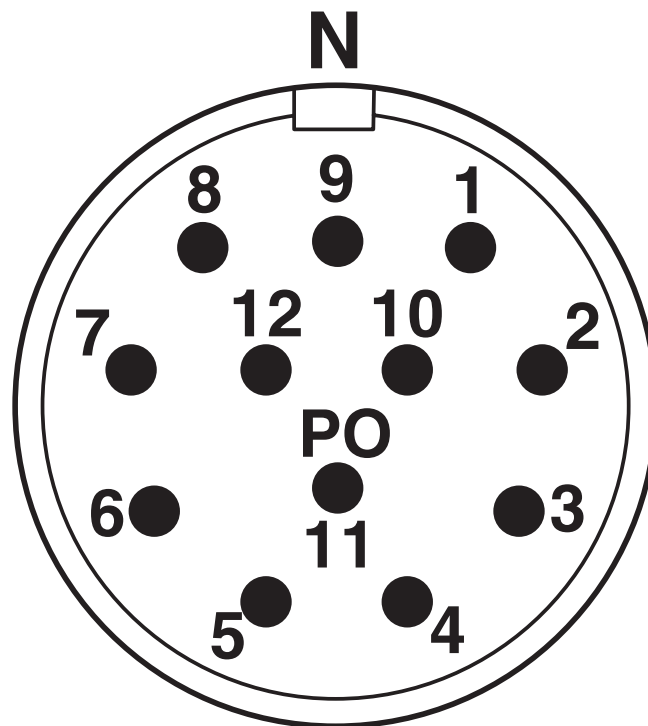
1620159

<https://www.phoenixcontact.com/us/products/1620159>



Drawings

Schematic diagram



Connector pin assignment

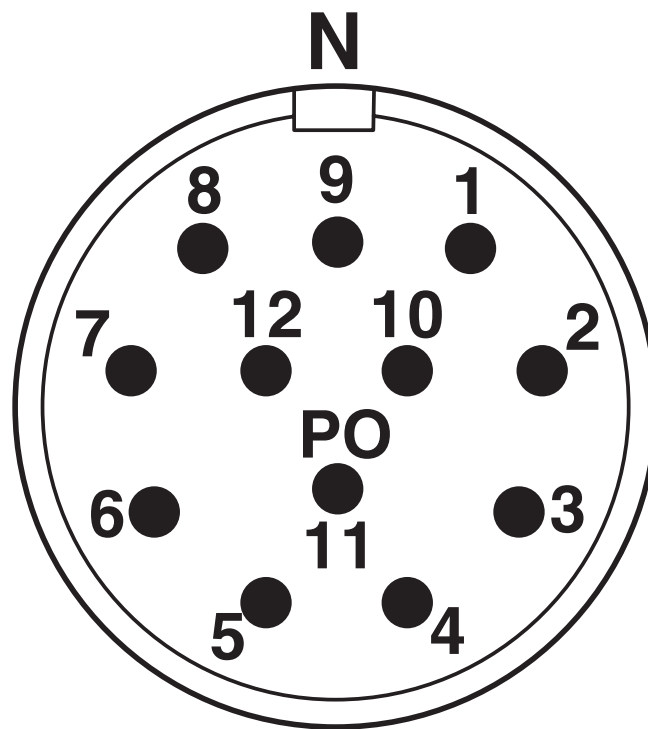
CA-12P1N1290DN - Coupler connector

1620159

<https://www.phoenixcontact.com/us/products/1620159>



Schematic diagram



Connector pin assignment

CA-12P1N1290DN - Coupler connector





1620159

<https://www.phoenixcontact.com/us/products/1620159>

Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1620159>

 cUL 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	18	-

 UL Recognized Approval ID: E335019-20141210				
	Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
keine				
	48 V	8 A	18	-

CA-12P1N1290DN - Coupler connector



1620159

<https://www.phoenixcontact.com/us/products/1620159>

Classifications

ECLASS

ECLASS-13.0	27440116
ECLASS-15.0	27440116

ETIM

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

UNSPSC

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

CA-12P1N1290DN - Coupler connector



1620159

<https://www.phoenixcontact.com/us/products/1620159>

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	5cde817c-c578-4cdb-a2b7-4e7bf281ba24

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