

RC-12P1N121100 - Cable connector



1596859

<https://www.phoenixcontact.com/us/products/1596859>

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, application: Signal, series: RC, straight, shielded: no, Screw locking mechanism, No. of pos.: 12, Direction of rotation: Standard, contact connection type: Pin, Solder cup, coding: N

The figure shows the 12-pos. product version, with standard DIN cable gland

Commercial data

Item number	1596859
Packing unit	20 pc
Minimum order quantity	1 pc
Product key	ABRAFA
GTIN	4046356212977
Weight per piece (including packing)	79.27 g
Weight per piece (excluding packing)	74.7 g
Country of origin	DE

RC-12P1N121100 - Cable connector



1596859

<https://www.phoenixcontact.com/us/products/1596859>

Technical data

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 group 1)	12
Contact diameter (Contact group 1)	1 mm
Litz wires Min. cross section (Contact group 1)	0.08 mm ²
Litz wires Max. cross section (Contact group 1)	1 mm ²
Rated current Contact (Contact group 1)	8 A (for max. connection cross section)
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

Housing

Type	Cable connector housing
Thread type	M23
Design	straight
Type of locking	Screw locking mechanism
Pg screw connection	Pg9
Material (Housing)	GD-Zn
Material (Housing surface)	Ni
Material (Rotating parts)	CuZn
Degree of protection (plugged in)	IP65 IP67 IP68

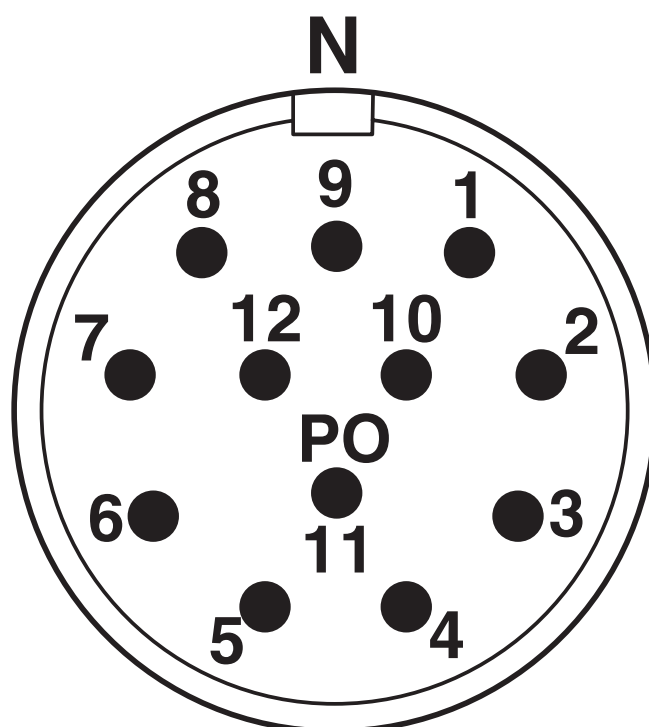
RC-12P1N121100 - Cable connector

1596859

<https://www.phoenixcontact.com/us/products/1596859>

Drawings

Schematic diagram



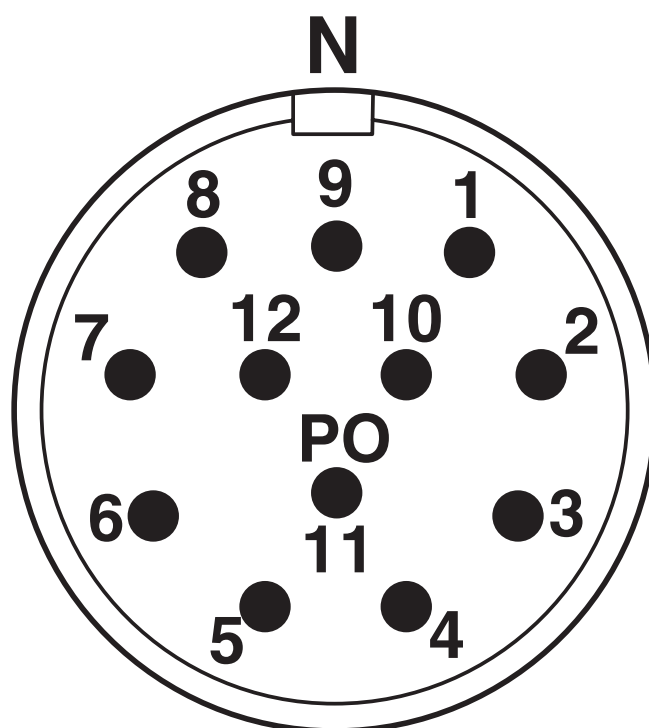
Connector pin assignment

RC-12P1N121100 - Cable connector

1596859

<https://www.phoenixcontact.com/us/products/1596859>

Schematic diagram



Connector pin assignment

RC-12P1N121100 - Cable connector

1596859

<https://www.phoenixcontact.com/us/products/1596859>

Schematic diagram



Dimensional drawing

RC-12P1N121100 - Cable connector



1596859

<https://www.phoenixcontact.com/us/products/1596859>

Classifications

ECLASS

ECLASS-13.0	27440116
ECLASS-15.0	27440116

ETIM

ETIM 10.0	EC002635
-----------	----------

UNSPSC

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

RC-12P1N121100 - Cable connector



1596859

<https://www.phoenixcontact.com/us/products/1596859>

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	e7d3e569-a083-44c1-b991-6b2a7da6eb52

Phoenix Contact 2026 © - 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