

RC-12P1N8A90A5 - Coupler connector



1597551

<https://www.phoenixcontact.com/us/products/1597551>

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, application: Signal, series: RC, straight, shielded: yes, Screw locking mechanism, No. of pos.: 12, Direction of rotation: Standard, contact connection type: Pin, Crimp connection, cable diameter range: 6.5 mm ... 7.5 mm, coding: N

The figure shows the product with assembled crimp contacts. Please order crimp contacts separately.

Commercial data

Item number	1597551
Packing unit	20 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Product key	ABRAFG
GTIN	4046356276559
Weight per piece (including packing)	74.43 g
Weight per piece (excluding packing)	66.594 g
Country of origin	DE

RC-12P1N8A90A5 - Coupler connector



1597551

<https://www.phoenixcontact.com/us/products/1597551>

Technical data

Notes

Order information:	Order crimp contacts Ø 1 mm separately
--------------------	----------------------------------------

Product properties

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

Connector

Insulating body

Note	Order information: Order crimp contacts Ø 1 mm separately
Coding	N
Material (Insulating body)	PA 6.6
Connection method	Crimp connection
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
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	Coupling housing
Thread type	M23
Design	straight
Type of locking	Screw locking mechanism
Pg screw connection	none
Material (Housing)	GD-Zn
Material (Housing surface)	Ni
Material (Rotating parts)	CuZn
Degree of protection (plugged in)	IP67

Seal

External cable diameter	6.5 mm ... 7.5 mm
Seal material	NBR

Environmental and real-life conditions

RC-12P1N8A90A5 - Coupler connector



1597551

<https://www.phoenixcontact.com/us/products/1597551>

Ambient conditions

Permissible humidity (storage/transport)

50 % ... 65 %

RC-12P1N8A90A5 - Coupler connector

1597551

<https://www.phoenixcontact.com/us/products/1597551>

Drawings

Schematic diagram



Connector pin assignment

RC-12P1N8A90A5 - Coupler connector

1597551

<https://www.phoenixcontact.com/us/products/1597551>

Schematic diagram



Connector pin assignment

RC-12P1N8A90A5 - Coupler connector



1597551

<https://www.phoenixcontact.com/us/products/1597551>

Classifications

ECLASS

ECLASS-13.0	27440116
ECLASS-15.0	27440116

ETIM

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

UNSPSC

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

RC-12P1N8A90A5 - Coupler connector



1597551

<https://www.phoenixcontact.com/us/products/1597551>

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	197ef1fa-acc3-4e7e-ae57-ece87ce5f3d8

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