

RC-1RP1NRA90EN - Coupler connector



1603109

<https://www.phoenixcontact.com/us/products/1603109>

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: RC, straight, shielded: yes, Screw locking mechanism, No. of pos.: 16+2+FE, Direction of rotation: Standard, contact connection type: Pin, Crimp connection, cable diameter range: 3 mm ... 10.5 mm, coding: N

Commercial data

Item number	1603109
Packing unit	20 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Product key	ABRAFG
GTIN	4046356243520
Weight per piece (including packing)	70.85 g
Weight per piece (excluding packing)	68.37 g
Country of origin	DE

RC-1RP1NRA90EN - Coupler connector



1603109

<https://www.phoenixcontact.com/us/products/1603109>

Technical data

Notes

Order information:	Order crimp contacts 16 x Ø 1 mm, 2 x Ø 1.5 mm, 1 x Ø 1.5 (PE) separately
--------------------	---

Product properties

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

Connector

Insulating body

Note	Order information: Order crimp contacts 16 x Ø 1 mm, 2 x Ø 1.5 mm, 1 x Ø 1.5 (PE) separately
Coding	N
Material (Insulating body)	PA 6.6
Connection method	Crimp connection
Contact switching type	Pin
Application	Signal
Number of positions	19
Direction of rotation	Standard
Connection profile	16+2+FE
Number Contact (Contact group 1)	3
Diameter Contact (Contact group 1)	1.5 mm
Rated current Contact (Contact group 1)	10 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
Number Contact (Contact group 2)	16
Diameter Contact (Contact group 2)	1 mm
Rated current Contact (Contact group 2)	8 A
Rated voltage Contact (Contact group 2)	48 V AC 48 V AC

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

RC-1RP1NRA90EN - Coupler connector



1603109

<https://www.phoenixcontact.com/us/products/1603109>

Degree of protection (plugged in)	IP67
Seal	
External cable diameter	3 mm ... 10.5 mm
Seal material	NBR

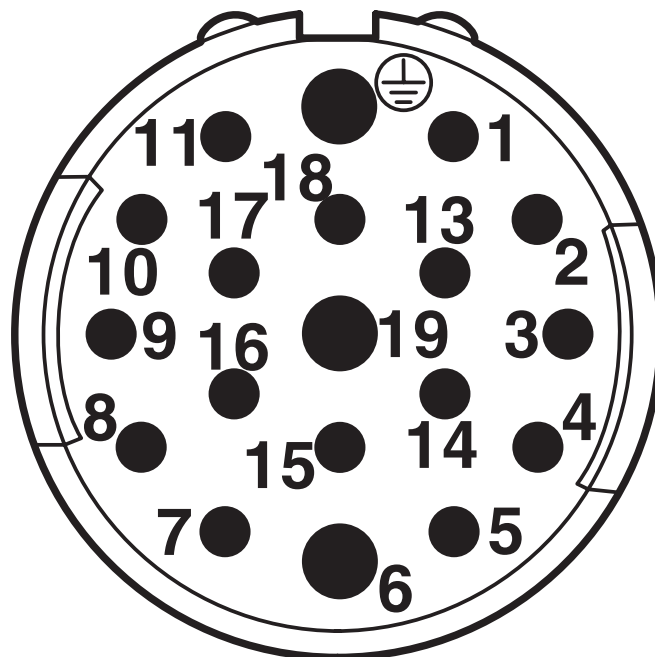
RC-1RP1NRA90EN - Coupler connector

1603109

<https://www.phoenixcontact.com/us/products/1603109>

Drawings

Schematic diagram



Connector pin assignment

RC-1RP1NRA90EN - Coupler connector



1603109

<https://www.phoenixcontact.com/us/products/1603109>

Classifications

UNSPSC

UNSPSC 21.0	39121413
-------------	----------

RC-1RP1NRA90EN - Coupler connector



1603109
<https://www.phoenixcontact.com/us/products/1603109>

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.)	No substance above 0.1 wt%

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