

RM-12P1N121300 - Circular connector (cable-side)



1605042

<https://www.phoenixcontact.com/us/products/1605042>

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.



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

Commercial data

Item number	1605042
Packing unit	20 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Product key	ABRAFA
GTIN	4046356250108
Weight per piece (including packing)	72.25 g
Weight per piece (excluding packing)	72.25 g
Country of origin	DE

RM-12P1N121300 - Circular connector (cable-side)



1605042

<https://www.phoenixcontact.com/us/products/1605042>

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	none
Material (Housing)	GD-Zn
Material (Housing surface)	Ni
Material (Rotating parts)	CuZn
Material (Seal)	FPM
Degree of protection (plugged in)	IP65 IP67

RM-12P1N121300 - Circular connector (cable-side)



1605042

<https://www.phoenixcontact.com/us/products/1605042>

Drawings

Schematic diagram



Connector pin assignment

RM-12P1N121300 - Circular connector (cable-side)



1605042

<https://www.phoenixcontact.com/us/products/1605042>

Schematic diagram



Dimensional drawing

RM-12P1N121300 - Circular connector (cable-side)



1605042

<https://www.phoenixcontact.com/us/products/1605042>

Classifications

UNSPSC

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

RM-12P1N121300 - Circular connector (cable-side)



1605042

<https://www.phoenixcontact.com/us/products/1605042>

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)
-------------------------------------	----------------------

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