

RF-12P1N8A90DU - Coupler connector



1607231

<https://www.phoenixcontact.com/pc/products/1607231>

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.



Coupler connector, straight, Screw locking mechanism, M23, number of positions: 12, contact connection type: Pin, shielded: yes, degree of protection: IP67, cable diameter range: 5 mm ... 13.2 mm, number of positions: 12, connection method: Crimp connection, series: RF, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1242246

Commercial data

Item number	1607231
Packing unit	20 pc
Minimum order quantity	1 pc
Product key	ABRAGG
Catalog page	Page 78 (PC-2011)
GTIN	4046356174794
Weight per piece (including packing)	97.615 g
Weight per piece (excluding packing)	97.615 g
Customs tariff number	85366990
Country of origin	DE

RF-12P1N8A90DU - Coupler connector



1607231

<https://www.phoenixcontact.com/pc/products/1607231>

Technical data

Notes

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

Product properties

Product type	Circular connector (cable-side)
Series	RF
Application	Feedback, signal
	Signal
Number of positions	12
Connection profile	12
Shielded	yes
Coding	N
Thread type	M23

Material specifications

Seal material	FPM
Housing material	Metal
Housing material	Turned parts: copper zinc alloy (CuZn), die-cast parts: zinc (GD-Zn)
Insulator material	PA 6.6
Gasket and O-ring material	FPM

Connection data

Conductor connection	
Connection method	Crimp connection

Electrical properties

Contact	
Contact diameter	1 mm
Max. current	8 A
Nominal voltage U_N	48 V AC 74 V DC
Overvoltage category	III
Degree of pollution	3
Rated surge voltage	1.5 kV

Connector

Type	straight
Direction of rotation	Standard

Cable/line

External cable diameter	5 mm ... 13.2 mm
-------------------------	------------------

RF-12P1N8A90DU - Coupler connector



1607231

<https://www.phoenixcontact.com/pc/products/1607231>

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP67
Ambient temperature (operation)	-40 °C ... 125 °C
Altitude	2000 m

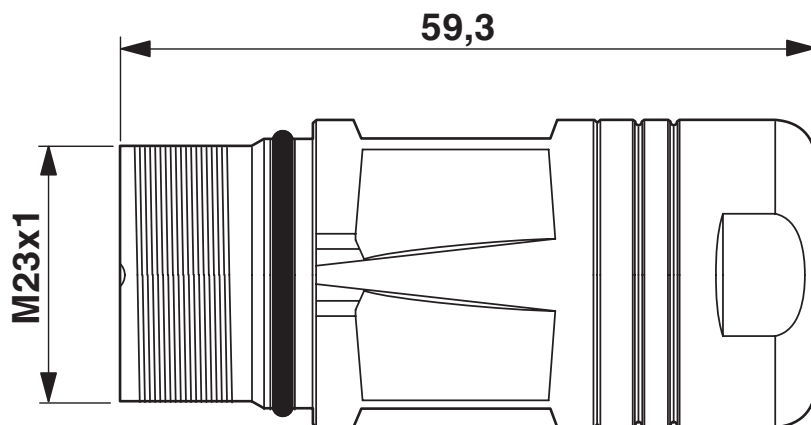
RF-12P1N8A90DU - Coupler connector

1607231

<https://www.phoenixcontact.com/pc/products/1607231>

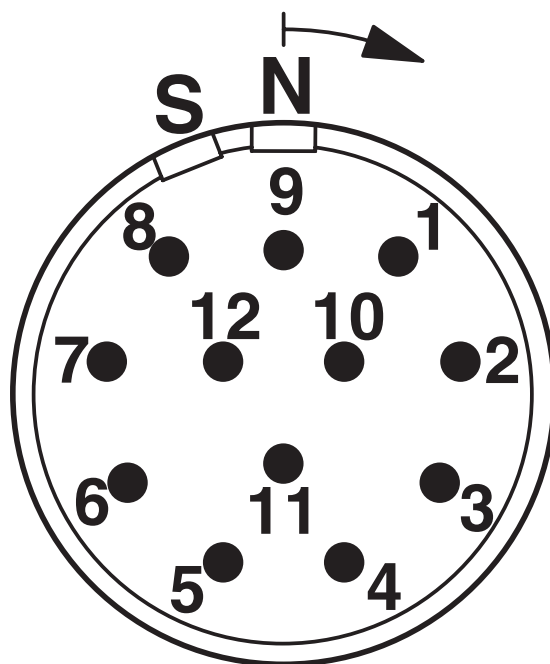
Drawings

Dimensional drawing



Dimensional drawing

Schematic diagram



Connector pin assignment

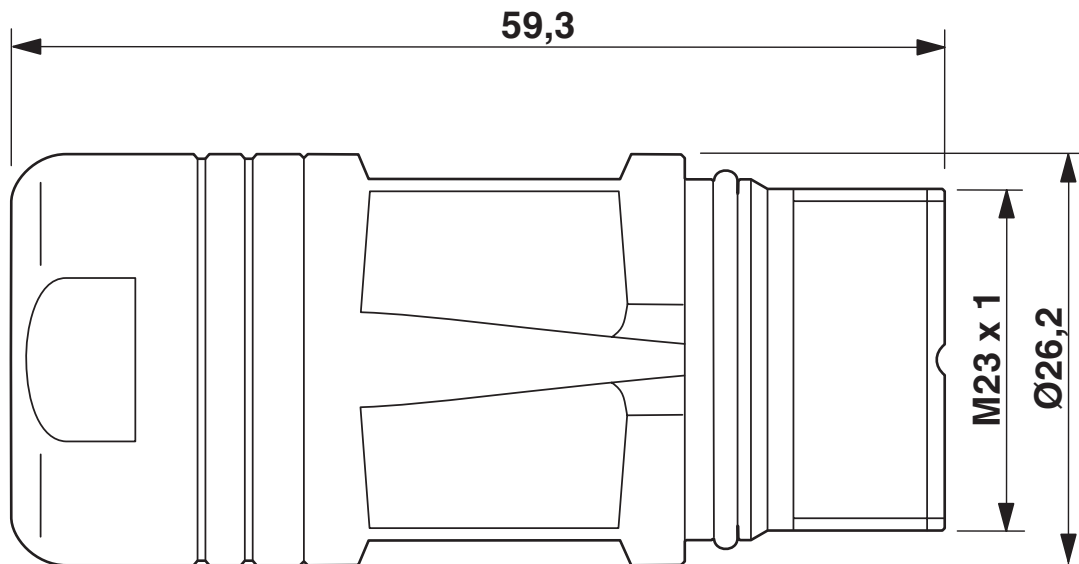
RF-12P1N8A90DU - Coupler connector



1607231

<https://www.phoenixcontact.com/pc/products/1607231>

Dimensional drawing



RF-12(17)...N8A90DU

RF-12P1N8A90DU - Coupler connector



1607231

<https://www.phoenixcontact.com/pc/products/1607231>

Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/pc/products/1607231>

 cUL Recognized Approval ID: E153698-20090723				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	48 V	5 A	20 - 20	-

 UL Recognized Approval ID: E153698-20090723				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	48 V	5 A	20 - 20	-

cULus Recognized				
-------------------------	--	--	--	--

RF-12P1N8A90DU - Coupler connector



1607231

<https://www.phoenixcontact.com/pc/products/1607231>

Classifications

ECLASS

ECLASS-11.0	27440102
ECLASS-12.0	27440116
ECLASS-13.0	27440116

ETIM

ETIM 8.0	EC002635
----------	----------

UNSPSC

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

RF-12P1N8A90DU - Coupler connector



1607231
<https://www.phoenixcontact.com/pc/products/1607231>

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	66c98b8f-0684-4075-b4b5-3c3c72bbfc79

Phoenix Contact 2024 © - all rights reserved
<https://www.phoenixcontact.com>

PHOENIX CONTACT GmbH & Co. KG
Flachsmarktstraße 8
D-32825 Blomberg
+49 (0) 5235-3 00
info@phoenixcontact.com