

# RF-12S1N8A90DU - Coupler connector



1607278

<https://www.phoenixcontact.com/us/products/1607278>

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: Socket, shielded: yes, degree of protection: IP67, cable diameter range: 5 mm . .. 13.2 mm, number of positions: 12, connection method: Crimp connection, series: RF, This product is in the process of being discontinued. This product must no longer be considered for new projects. Please contact your sales representative for alternatives.

## Commercial data

Item number	1607278
Packing unit	20 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	AB31
Product key	ABRAGG
GTIN	4046356174688
Weight per piece (including packing)	98.205 g
Weight per piece (excluding packing)	93.697 g
Customs tariff number	85366990
Country of origin	DE

# RF-12S1N8A90DU - Coupler connector



1607278

<https://www.phoenixcontact.com/us/products/1607278>

## 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

Material Housing	GD-Zn
Material Rotating parts	CuZn
Material Housing surface	Ni
Material Insulating body	PA 6.6
Material Seal	FPM (O-ring)

### Connection data

#### Conductor connection

Connection method	Crimp connection
-------------------	------------------

### Electrical properties

#### Contact

Contact diameter	1 mm
Nominal current $I_N$	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-12S1N8A90DU - Coupler connector



1607278

<https://www.phoenixcontact.com/us/products/1607278>

## Environmental and real-life conditions

### Ambient conditions

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

# RF-12S1N8A90DU - Coupler connector

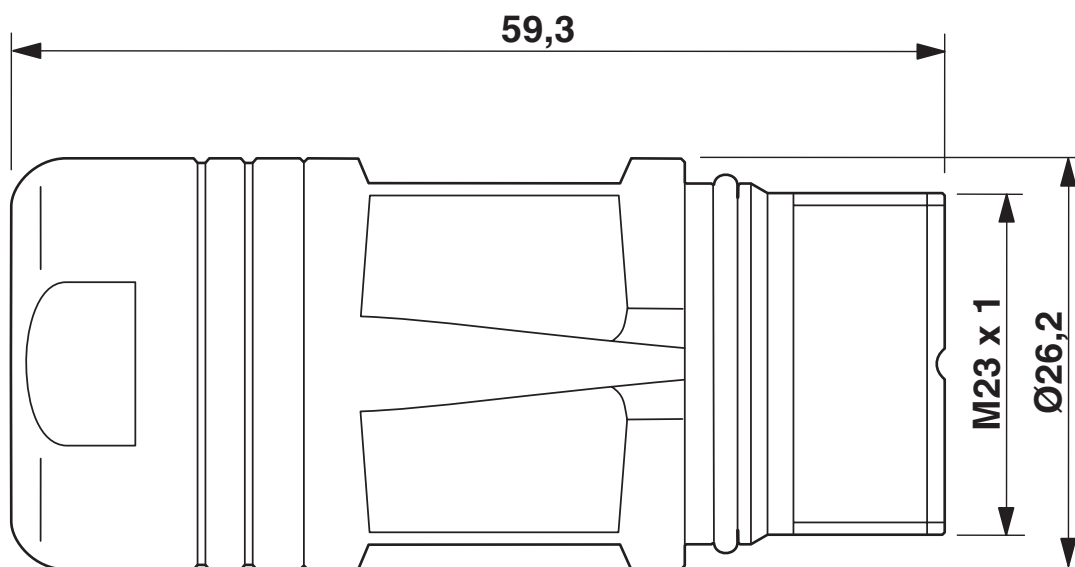


1607278

<https://www.phoenixcontact.com/us/products/1607278>

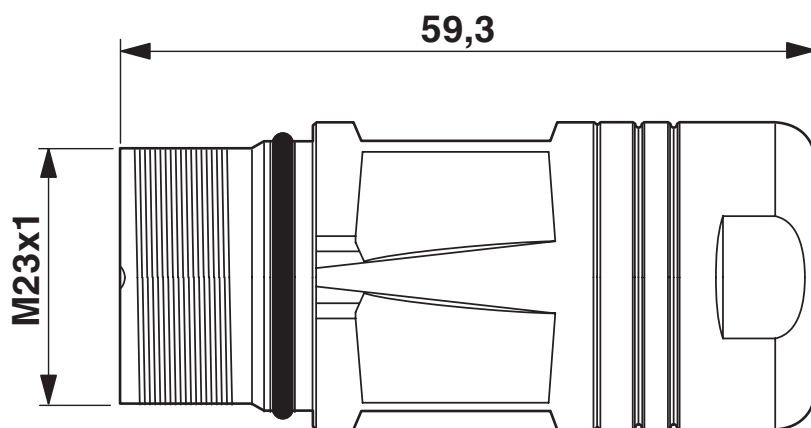
## Drawings

Dimensional drawing



RF-12(17)...N8A90DU

Dimensional drawing



Dimensional drawing

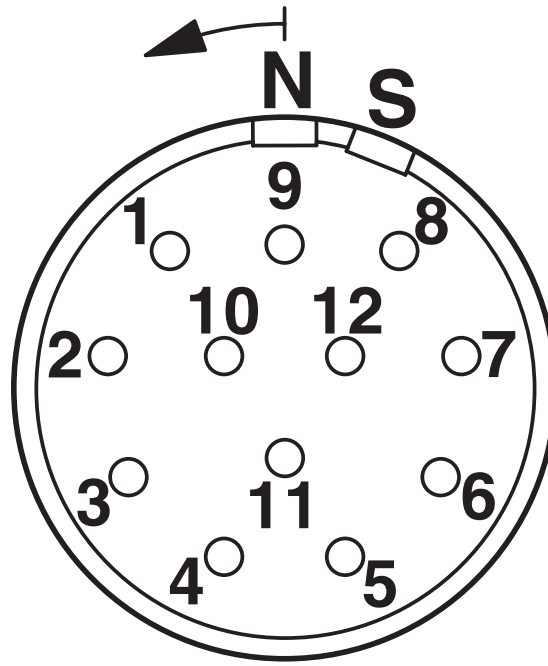
# RF-12S1N8A90DU - Coupler connector

1607278

<https://www.phoenixcontact.com/us/products/1607278>



Schematic diagram



Connector pin assignment

# RF-12S1N8A90DU - Coupler connector





1607278

<https://www.phoenixcontact.com/us/products/1607278>

## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1607278>

 <b>cUL Recognized</b> Approval ID: E153698-20090723				
	Nominal voltage U <sub>N</sub>	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
keine				
	48 V	5 A	20	-

 <b>UL Recognized</b> Approval ID: E153698-20090723				
	Nominal voltage U <sub>N</sub>	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
keine				
	48 V	5 A	20	-

# RF-12S1N8A90DU - Coupler connector



1607278

<https://www.phoenixcontact.com/us/products/1607278>

## Classifications

### ECLASS

ECLASS-13.0	27440116
ECLASS-15.0	27440116

### ETIM

ETIM 9.0	EC002635
----------	----------

### UNSPSC

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

# RF-12S1N8A90DU - Coupler connector



1607278

<https://www.phoenixcontact.com/us/products/1607278>

## 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	a6486874-dd4c-4b87-8d7b-98bb750bc5aa

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](mailto:info@phoenixcon.com)