

# RF-12P2N8A90DU - Coupler connector

1607255

<https://www.phoenixcontact.com/us/products/1607255>

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 product version with standard contact chamber numbering

Coupler connector, application: Feedback, signal, 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, Item is lead-free in accordance with RoHS II without Exemption 6c (Pb < 0.1 %), 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. Alternative products: 1329285

## Commercial data

Item number	1607255
Packing unit	20 pc
Minimum order quantity	1 pc
Sales key	AB31
Product key	ABRAGG
GTIN	4046356174817
Weight per piece (including packing)	97.97 g
Weight per piece (excluding packing)	93.697 g
Customs tariff number	85366990
Country of origin	DE

# RF-12P2N8A90DU - Coupler connector



1607255

<https://www.phoenixcontact.com/us/products/1607255>

## 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)
Seal material	FPM

### 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	Counter direction

### Cable/line

# RF-12P2N8A90DU - Coupler connector



1607255

<https://www.phoenixcontact.com/us/products/1607255>

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

## Environmental and real-life conditions

### Ambient conditions

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

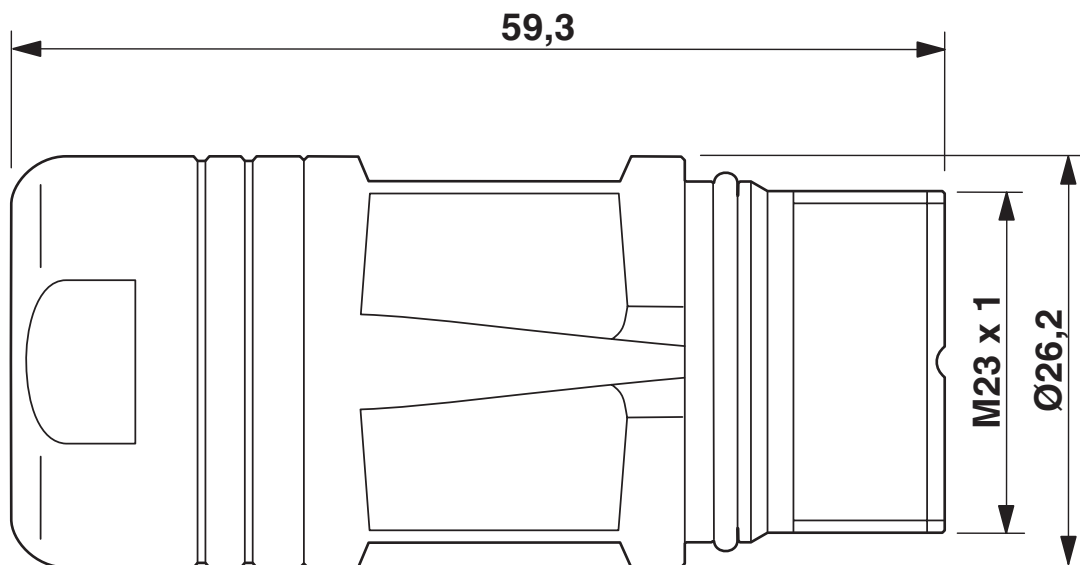
# RF-12P2N8A90DU - Coupler connector

1607255

<https://www.phoenixcontact.com/us/products/1607255>

## Drawings

Dimensional drawing



RF-12(17)...N8A90DU

Dimensional drawing



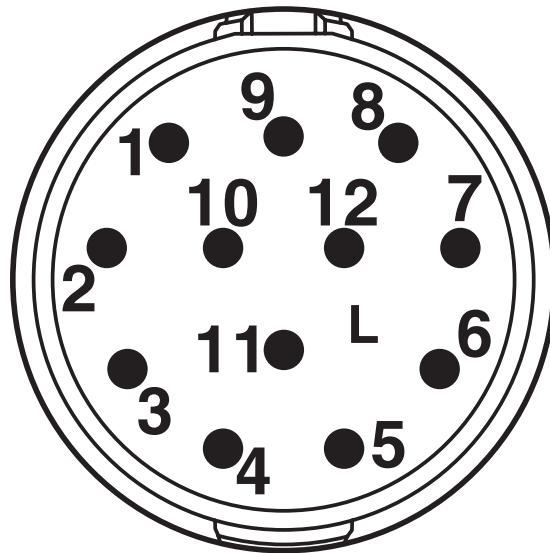
Dimensional drawing

# RF-12P2N8A90DU - Coupler connector

1607255

<https://www.phoenixcontact.com/us/products/1607255>

Schematic diagram



Connector pin assignment

# RF-12P2N8A90DU - Coupler connector



1607255

<https://www.phoenixcontact.com/us/products/1607255>

## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1607255>

 <b>cUL Recognized</b> Approval ID: E153698-20090723				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
keine				
	48 V	5 A	20	-

 <b>UL Recognized</b> Approval ID: E153698-20090723				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
keine				
	48 V	5 A	20	-

# RF-12P2N8A90DU - Coupler connector



1607255

<https://www.phoenixcontact.com/us/products/1607255>

## Classifications

### ECLASS

ECLASS-13.0	27440116
ECLASS-15.0	27440116

### ETIM

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

### UNSPSC

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

# RF-12P2N8A90DU - Coupler connector



1607255

<https://www.phoenixcontact.com/us/products/1607255>

## 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	cc4b3a3f-30f9-45bc-9e06-828530548fdf

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](mailto:info@phoenixcon.com)