

# RF-12S2N8A90DU - Coupler connector



1607302

<https://www.phoenixcontact.com/us/products/1607302>

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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: 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, 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.

## Commercial data

Item number	1607302
Packing unit	20 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	AB31
Product key	ABRAGG
GTIN	4046356174701
Weight per piece (including packing)	101.9 g
Weight per piece (excluding packing)	93.697 g
Customs tariff number	85366990
Country of origin	DE

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## Technical data

### Notes

Order information:	Order crimp contacts Ø 1 mm separately
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### 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	Counter direction

### Cable/line

External cable diameter	5 mm ... 13.2 mm
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## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP67
Ambient temperature (operation)	-20 °C ... 125 °C
Altitude	2000 m

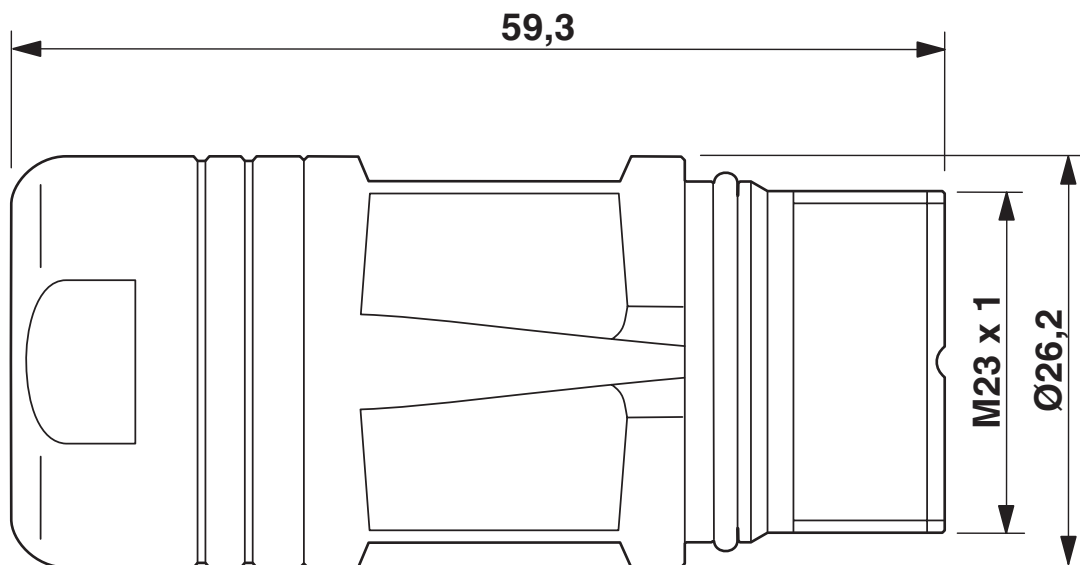
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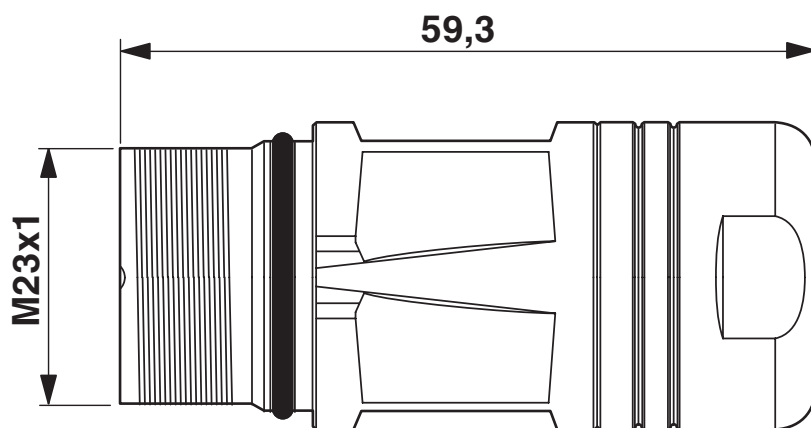
## Drawings

Dimensional drawing



RF-12(17)...N8A90DU

Dimensional drawing



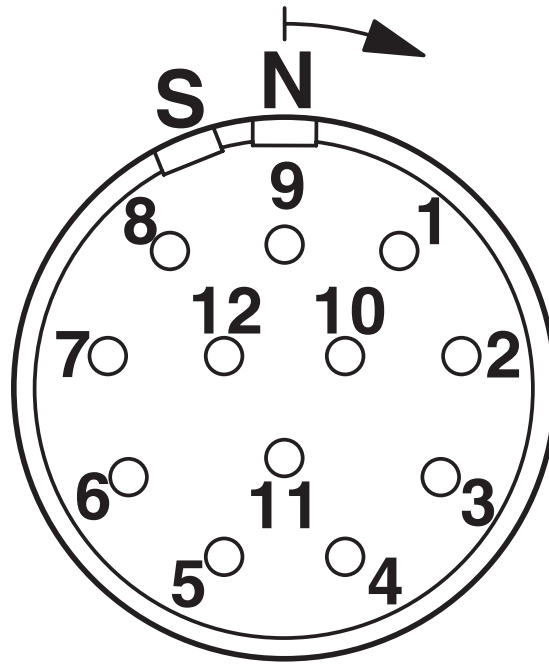
Dimensional drawing

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Schematic diagram



Connector pin assignment

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1607302>

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

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## Classifications

### ECLASS

ECLASS-13.0	27440116
ECLASS-15.0	27440116

### ETIM

ETIM 10.0	EC002635
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### UNSPSC

UNSPSC 21.0	39121400
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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
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### China RoHS

Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits

### EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%
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