

# RF-12P1N8A80DU - Cable connector



1607228

<https://www.phoenixcontact.com/us/products/1607228>

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Cable 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, 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: 1629208

The figure shows the product with assembled crimp contacts. Please order crimp contacts separately.

## Commercial data

Item number	1607228
Packing unit	20 pc
Minimum order quantity	1 pc
Sales key	AB31
Product key	ABRAGA
GTIN	4046356174756
Weight per piece (including packing)	100.495 g
Weight per piece (excluding packing)	93.28 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
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
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### 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

#### Connection 1

Head design	Pin
Head cable outlet	straight

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Head thread type	M23
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## 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)	-40 °C ... 125 °C
Altitude	2000 m

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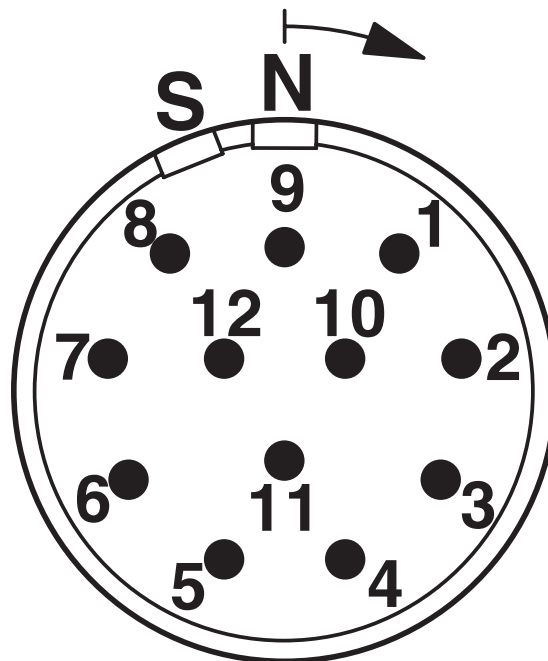
## Drawings

Dimensional drawing



RF-12(17)...N8A80DU

Schematic diagram



Connector pin assignment

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1607228>

 <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	-

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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
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	a39794a4-d248-4513-a984-f90b14393a1a

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Phoenix Contact USA  
586 Fulling Mill Road  
Middletown, PA 17057, United States  
(+717) 944-1300  
[info@phoenixcon.com](mailto:info@phoenixcon.com)