RF-12P1N8A80DU - Cable connector

1607228

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

PHŒNIX CONTACT

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Cable 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, this item is expected to be lead-free from Q3 2026 in accordance with RoHS II without exception 6c (Pb < 0. 1%), a lead-free alternative is possible on request in advance

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

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

Connection 1

Head design	Pin

Head cable outlet	straight
Head thread type	M23

Cable/line

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

Drawings

Dimensional drawing

59,1

Ø 26,1
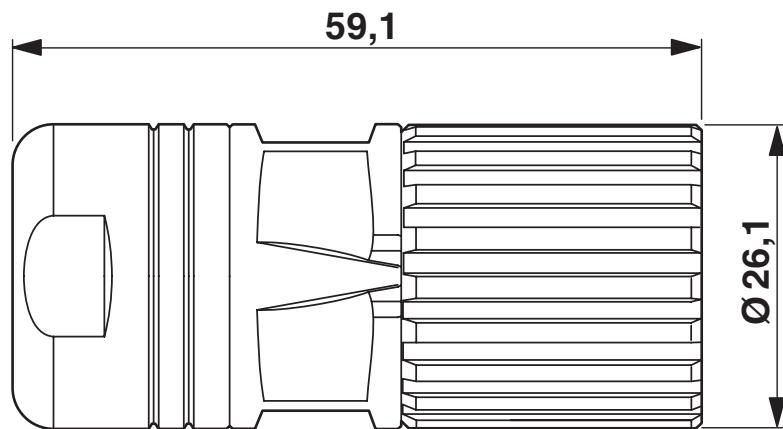
RF-12(17)...N8A80DU

Schematic diagram

S N

8 9 1

12 10

7 2

6 3

5 11 4
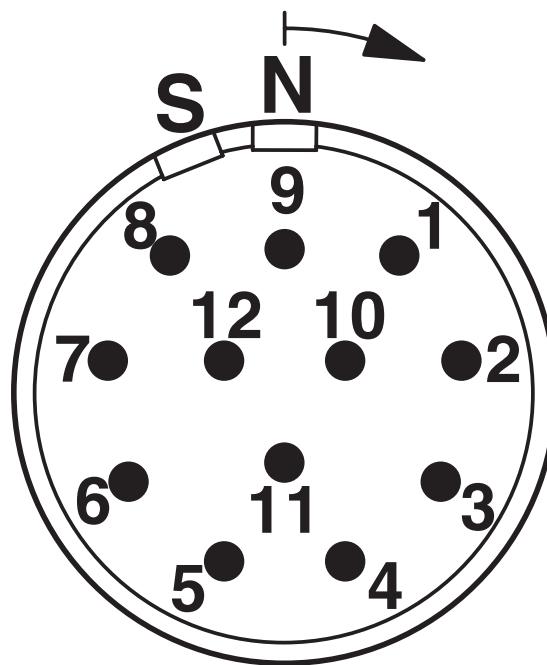
Connector pin assignment

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Approvals

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

cUL Recognized
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 9.0	EC002635

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: n/a)
SCIP	a39794a4-d248-4513-a984-f90b14393a1a

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