

# RC-12S1N8A80ZS - Cable connector



1616882

<https://www.phoenixcontact.com/us/products/1616882>

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M23, Cable connector, application: Signal, straight, Screw locking mechanism, No. of pos.: 12, Direction of rotation: Standard, contact connection type: Socket, Crimp connection, coding: N. 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: 1629212

## Commercial data

Item number	1616882
Packing unit	1 pc
Minimum order quantity	1 pc
Product key	ABRAFA
GTIN	4046356586023
Weight per piece (including packing)	76.6 g
Weight per piece (excluding packing)	70.753 g
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	RC
Application	Signal
Number of positions	12
Connection profile	17
Shielded	yes
Coding	N
Thread type	M23

### Material specifications

Seal material	NBR
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### 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

### Mechanical properties

#### Mechanical data

Insertion/withdrawal cycles	100
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### Connector

Type	straight
Direction of rotation	Standard

#### Insulating body

Note	Order information: Order crimp contacts Ø 1 mm separately
Coding	N

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Material (Insulating body)	PA 6.6
Connection method	Crimp connection
Contact switching type	Socket
Application	Signal
Number of positions	12
Direction of rotation	Standard
Connection profile	12
Number (Contact group 1)	12
Contact diameter (Contact group 1)	1 mm
Rated current Contact (Contact group 1)	8 A (for max. connection cross section)
Rated voltage Contact (Contact group 1)	48 V AC
	74 V DC
Rated surge voltage	1.5 kV
Overvoltage category	III
Degree of pollution	3

## Housing

Note	Order contact inserts separately
Type	Cable connector housing
Thread type	M23
Design	straight
Type of locking	Screw locking mechanism
Pg screw connection	none
Material (Housing)	Metal
Degree of protection (plugged in)	IP65
	IP67
	IP68

## Cable/line

External cable diameter	3 mm ... 10.5 mm
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## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP67
	IP65
Altitude	2000 m
Permissible humidity (storage/transport)	50 % ... 65 %

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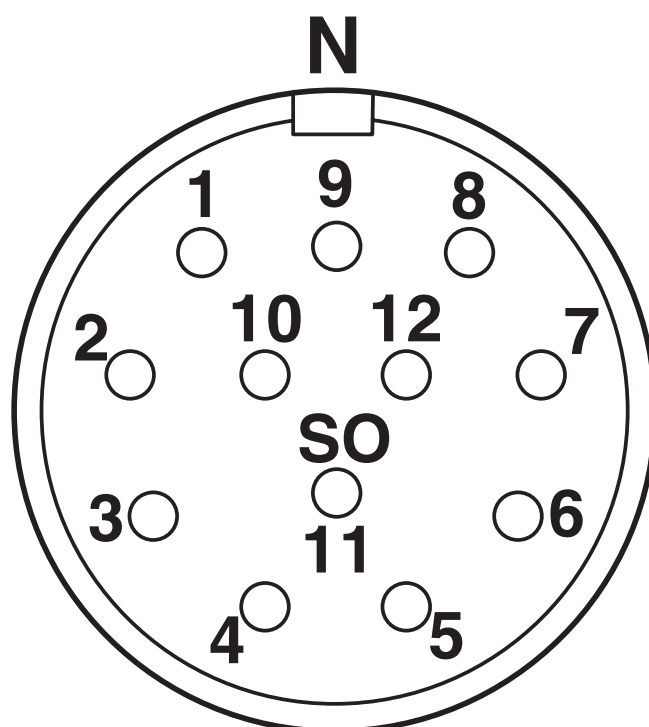
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## Drawings

Schematic diagram



Connector pin assignment

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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	c8331d82-f925-474d-acfa-e9b687602950

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