

# RC-19S1N12R3EP - Cable connector



1602897

<https://www.phoenixcontact.com/us/products/1602897>

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M23, Cable connector, application: Signal, series: RC, straight, shielded: yes, Screw locking mechanism, No. of pos.: 16+3, Direction of rotation: Standard, contact connection type: Socket, Solder cup, cable diameter range: 3 mm ... 10.5 mm, coding: N

The figure shows the 12-pos. product version, with double bracket strain relief

## Commercial data

Item number	1602897
Packing unit	20 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Product key	ABRAFA
GTIN	4046356879132
Weight per piece (including packing)	93.265 g
Weight per piece (excluding packing)	88.58 g
Country of origin	DE

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## Technical data

### Product properties

Product type	Circular connector (cable-side)
Thread type	M23

### Material specifications

Flammability rating according to UL 94	V0
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### Connection data

#### Conductor connection

Connection method	Solder connection
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### Connector

#### Insulating body

Coding	N
Material (Insulating body)	PA 6.6
Material (Contact)	CuZn
Material (Contact surface)	Ni/Au
Insertion/withdrawal cycles	100
Connection method	Solder cup
Contact switching type	Socket
Application	Signal
Number of positions	19
Direction of rotation	Standard
Connection profile	16+3
Number (Contact group 1)	3
Contact diameter (Contact group 1)	1.5 mm
Litz wires Min. cross section (Contact group 1)	0.08 mm <sup>2</sup>
Litz wires Max. cross section (Contact group 1)	1 mm <sup>2</sup>
Rated current Contact (Contact group 1)	10 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
Number (Contact group 2)	16
Contact diameter (Contact group 2)	1 mm
Litz wires Max. cross section (Contact group 2)	1 mm <sup>2</sup>
Rated current Contact (Contact group 2)	8 A
Number (Contact group 3)	1
Contact diameter (Contact group 3)	1.5 mm

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Rated current Contact (Contact group 3)	8 A
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## Housing

Order information:	Order contact inserts and cable clamping/shield accessories separately
Type	Cable connector housing
Thread type	M23
Design	straight
Type of locking	Screw locking mechanism
Pg screw connection	none
Mounting type	Screw mounting (Pg13,5)
Housing material	Metal
Degree of protection (plugged in)	IP67

## Seal

External cable diameter	3 mm ... 10.5 mm
Seal material	NBR

## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP67
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## Drawings

Schematic diagram



Connector pin assignment

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Schematic diagram



Dimensional drawing

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## Classifications

### 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	9fe24f3c-1ca9-4fc2-8dcd-2fb0022e8394

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