

# RC-16P1N121600 - Cable connector



1600520

<https://www.phoenixcontact.com/us/products/1600520>

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The figure shows the 12-pos.  
product version

M23, Cable connector, application: Signal, series: RC, straight, shielded: no, Screw locking mechanism, No. of pos.: 16, Direction of rotation: Standard, contact connection type: Pin, Solder cup, 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: 1679686

## Commercial data

Item number	1600520
Packing unit	20 pc
Minimum order quantity	1 pc
Sales key	AB31
Product key	ABRAFA
GTIN	4046356230483
Weight per piece (including packing)	84.25 g
Weight per piece (excluding packing)	81.53 g
Customs tariff number	85366990
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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### Connector

#### Insulating body

Coding	N
Material (Insulating body)	PBT
Material (Contact)	CuZn
Material (Contact surface)	Ni/Au
Insertion/withdrawal cycles	50
Connection method	Solder cup
Contact switching type	Pin
Application	Signal
Number of positions	16
Direction of rotation	Standard
Connection profile	16
Number (Contact group 1)	16
Contact diameter (Contact group 1)	1 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)	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

Type	Cable connector housing
Thread type	M23
Design	straight
Type of locking	Screw locking mechanism
Pg screw connection	Pg11
Mounting type	Screw mounting (Pg11)
Material (Housing)	Metal
Degree of protection (plugged in)	IP65 IP67

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## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP67
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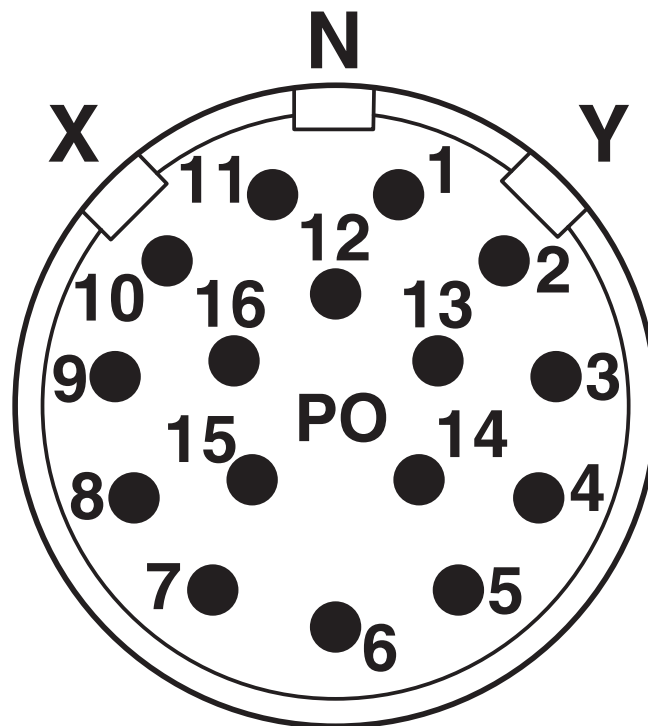
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## Drawings

Schematic diagram



Connector pin assignment

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Schematic diagram



Dimensional drawing

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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	48cb04c0-4116-4350-98e7-bfa482cfd167

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