RC-19P1N121700 - Cable connector

1602497

https://www.phoenixcontact.com/us/products/1602497

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



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+3, 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: 1341231

Commercial data

Item number	1602497
Packing unit	20 pc
Minimum order quantity	20 pc
Note	Made to order (non-returnable)
Sales key	AB31
Product key	ABRAFA
GTIN	4046356239967
Weight per piece (including packing)	82.55 g
Weight per piece (excluding packing)	77.72 g
Customs tariff number	85366990
Country of origin	DE

Technical data

Product properties

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

Material specifications

Flammability rating according to UL 94	V0

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	Pin
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 mm²
Litz wires Max. cross section (Contact group 1)	1 mm²
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 mm²
Rated current Contact (Contact group 2)	8 A

Housing

Type	Cable connector housing
Thread type	M23
Design	straight
Type of locking	Screw locking mechanism
Pg screw connection	Pg13,5

Material (Housing)	Metal
Degree of protection (plugged in)	IP65
	IP67

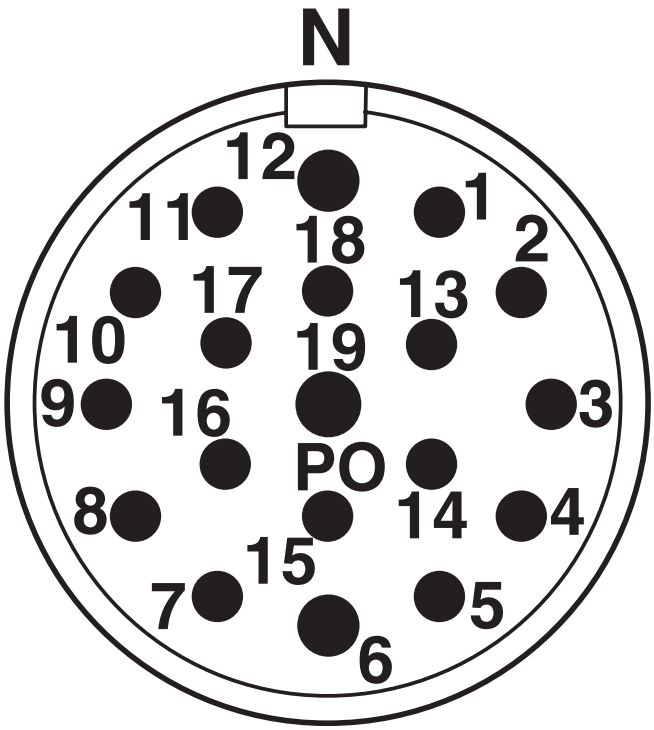
Environmental and real-life conditions

Ambient conditions

Degree of protection	IP67

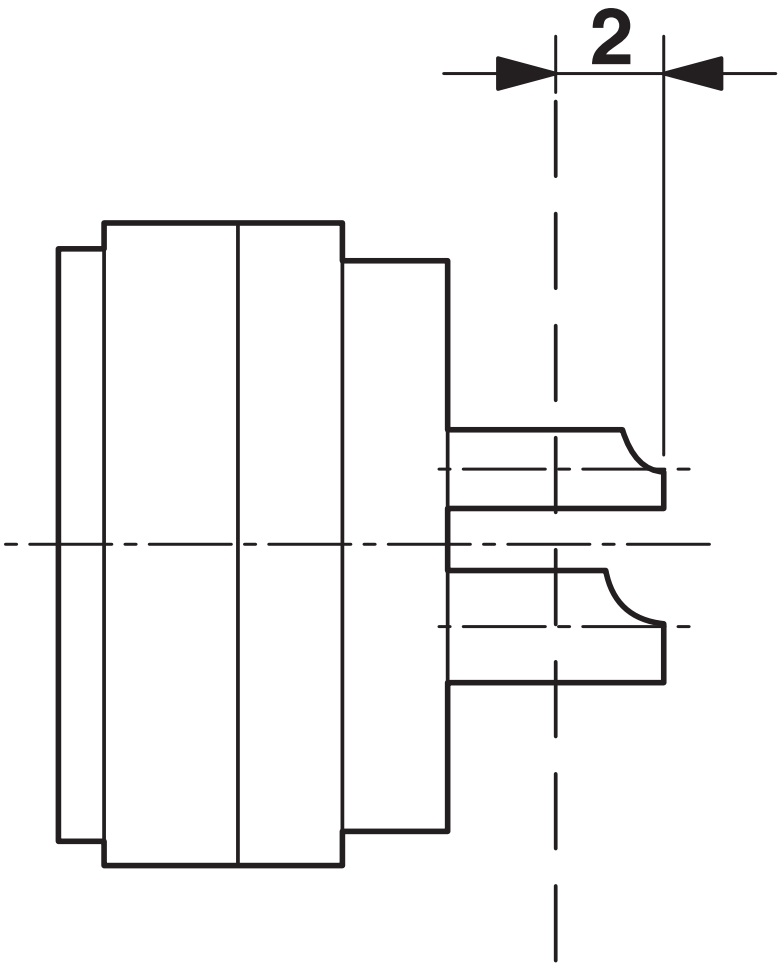
Drawings

Schematic diagram



Connector pin assignment

Schematic diagram



Dimensional drawing

Classifications

ECLASS

ECLASS-13.0	27440116
ECLASS-15.0	27440116

ETIM

ETIM 10.0	EC002635

UNSPSC

UNSPSC 21.0	39121400

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	1e489af0-0f40-429a-ac20-acc8ab5a58da

Phoenix Contact 2026 © - all rights reserved
https://www.phoenixcontact.com

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