RC-07S1N121500 - Cable connector

1594566

https://www.phoenixcontact.com/us/products/1594566

M23, Cable connector, series: RC, straight, shielded: no, Screw locking mechanism, No. of pos.: 7, Direction of rotation: Standard, contact connection type: Socket, Solder cup, coding: N, this item is expected to be lead-free from Q4 2025 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	1594566
Packing unit	20 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	AB31
Product key	ABRAFA
GTIN	4046356202152
Weight per piece (including packing)	82.9 g
Weight per piece (excluding packing)	77.8 g
Customs tariff number	85366990
Country of origin	DE

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Technical data

Product properties

Product type	Circular connector (cable-side)

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	Socket
Application	Signal
Number of positions	7
Direction of rotation	Standard
Connection profile	7
Number Contact (Contact group 1)	7
Diameter Contact (Contact group 1)	2 mm
Litz wire cross-section min. Contact (Contact group 1)	0.08 mm²
Litz wire cross-section max. Contact (Contact group 1)	2.5 mm²
Rated current Contact (Contact group 1)	20 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	Pg9
Material (Housing)	GD-Zn
Material (Housing surface)	Ni
Material (Rotating parts)	CuZn
Degree of protection (plugged in)	IP65
	IP67
	IP68

Environmental and real-life conditions

RC-07S1N121500 - Cable connector

Ambient conditions

Ambient temperature (operation)	-40 °C ... 125 °C

RC-07S1N121500 - Cable connector

Drawings

Schematic diagram

Connector pin assignment

RC-07S1N121500 - Cable connector
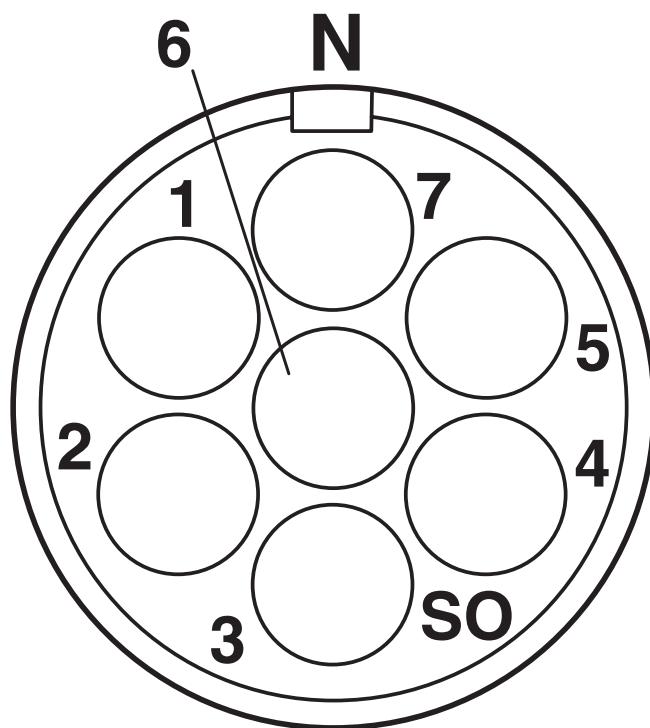
1594566

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Schematic diagram
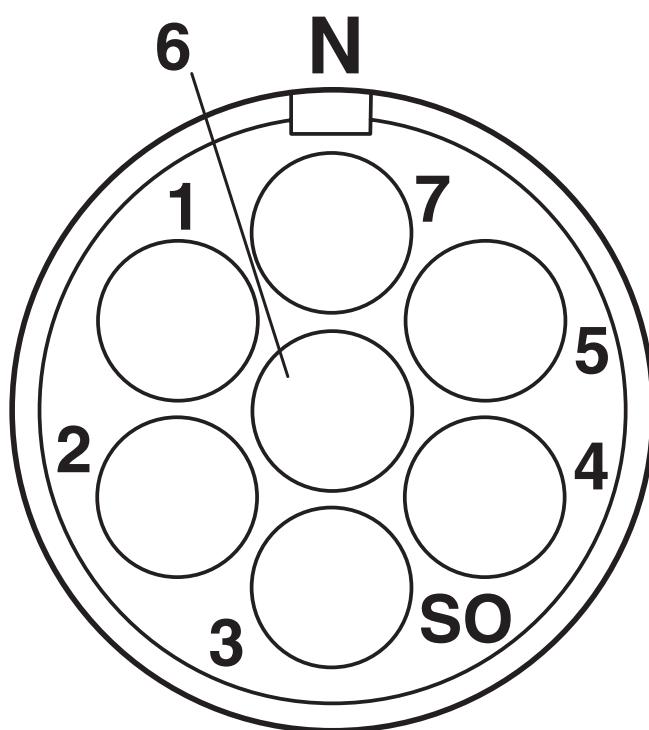
Connector pin assignment

RC-07S1N121500 - Cable connector

Schematic diagram

2
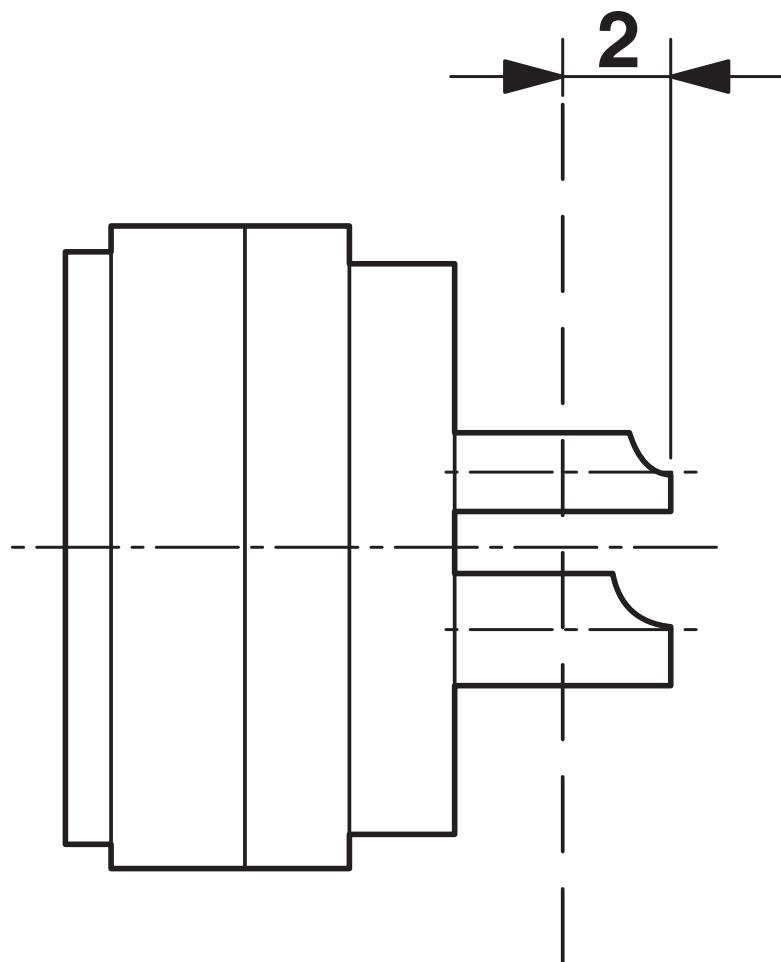
Dimensional drawing

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Classifications

ECLASS

ECLASS-13.0	27440116
ECLASS-15.0	27440116

ETIM

ETIM 9.0	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	329e0776-90d8-4bb3-b31d-d17d131e8110

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