

RC-09S1N12Z500 - Cable connector



1596271

<https://www.phoenixcontact.com/us/products/1596271>

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M23, Cable connector, series: RC, angled, shielded: no, Screw locking mechanism, No. of pos.: 8+1, Direction of rotation: Standard, contact connection type: Socket, 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.

Commercial data

Item number	1596271
Packing unit	8 pc
Minimum order quantity	8 pc
Note	Made to order (non-returnable)
Sales key	AB31
Product key	ABRAFC
GTIN	4046356210447
Weight per piece (including packing)	150.19 g
Weight per piece (excluding packing)	144.708 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	Socket
Application	Signal
Number of positions	9
Direction of rotation	Standard
Connection profile	8+1
Number Contact (Contact group 1)	1
Diameter Contact (Contact group 1)	2 mm
Litz wire cross-section min. Contact (Contact group 1)	0.08 mm ²
Litz wire cross-section max. Contact (Contact group 1)	2.5 mm ²
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
Number Contact (Contact group 2)	8
Diameter Contact (Contact group 2)	1 mm
Litz wire cross-section min. Contact (Contact group 2)	0.08 mm ²
Litz wire cross-section max. Contact (Contact group 2)	1 mm ²
Rated current Contact (Contact group 2)	8 A (for max. connection cross section)
Rated voltage Contact (Contact group 2)	48 V AC
	48 V AC

Housing

Type	Cable connector housing
Thread type	M23

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<https://www.phoenixcontact.com/us/products/1596271>

Design	angled
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

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP67
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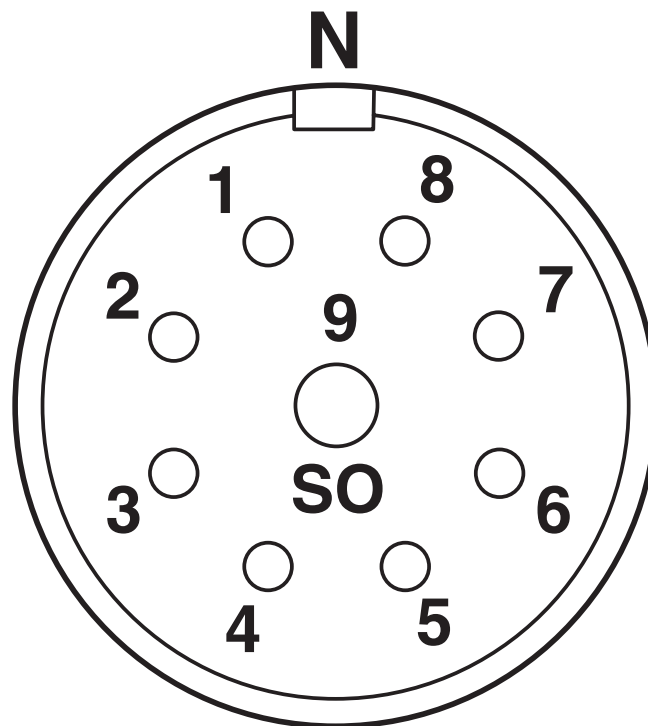
RC-09S1N12Z500 - Cable connector

1596271

<https://www.phoenixcontact.com/us/products/1596271>

Drawings

Schematic diagram



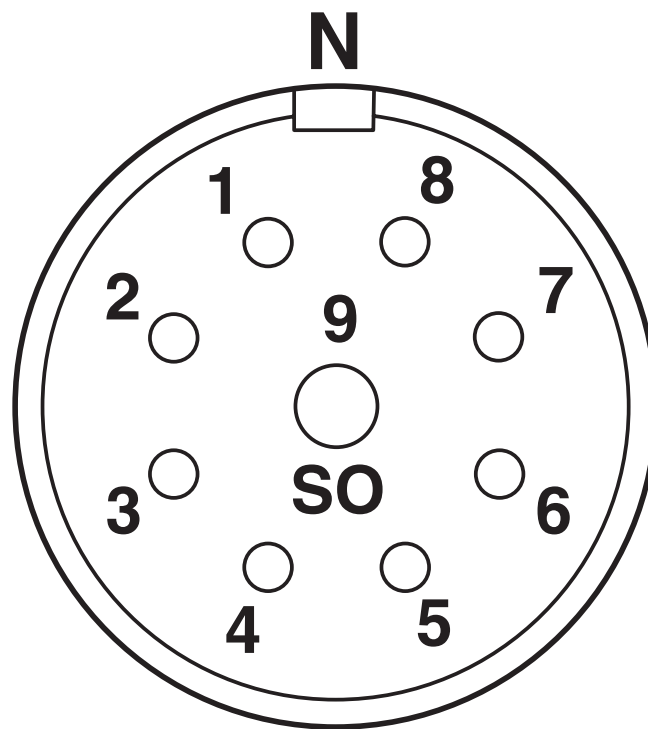
Connector pin assignment

RC-09S1N12Z500 - Cable connector

1596271

<https://www.phoenixcontact.com/us/products/1596271>

Schematic diagram



Connector pin assignment

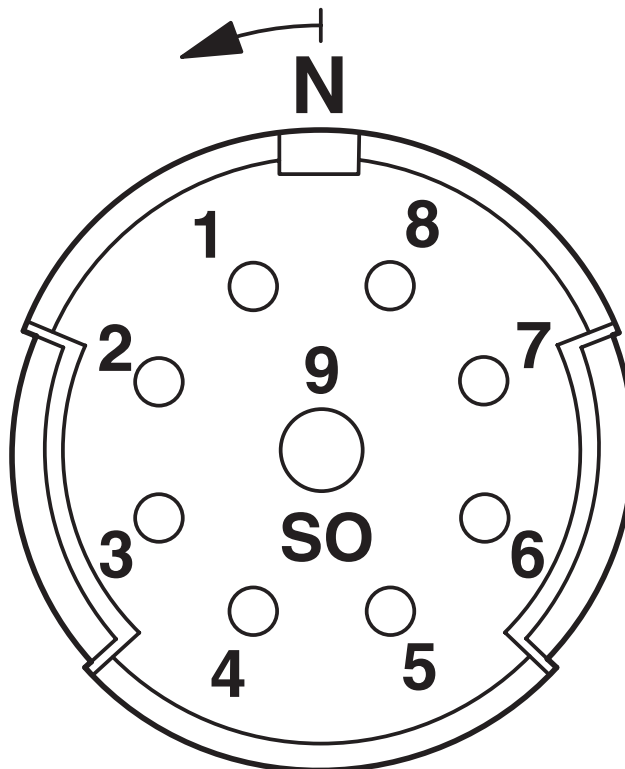
RC-09S1N12Z500 - Cable connector

1596271

<https://www.phoenixcontact.com/us/products/1596271>



Schematic diagram



Connector pin assignment

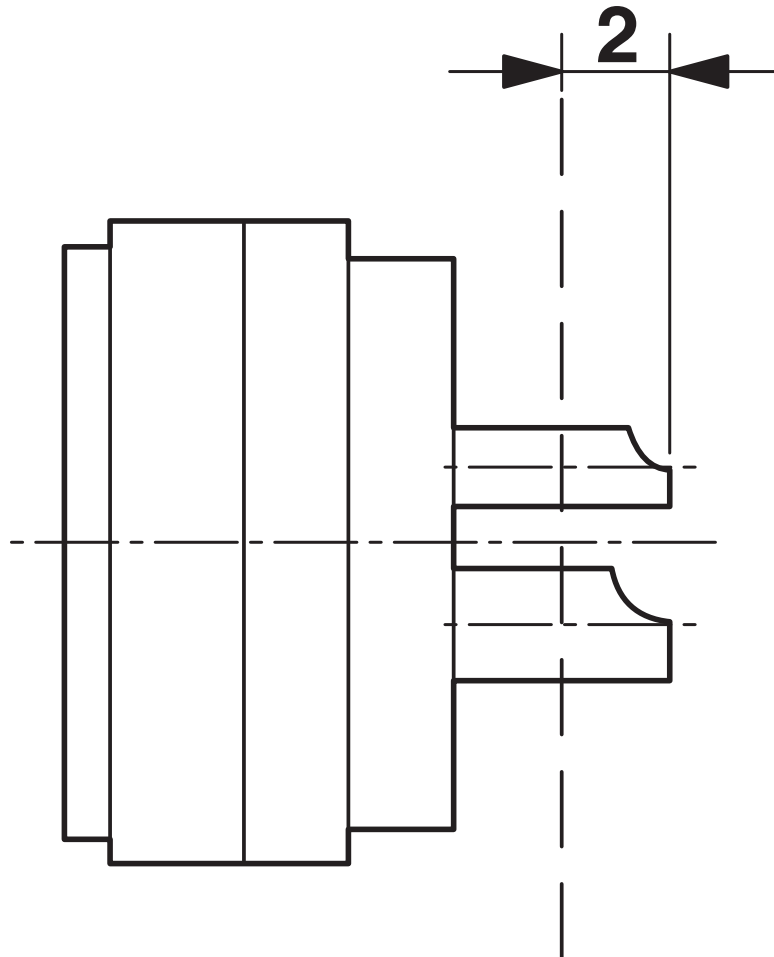
RC-09S1N12Z500 - Cable connector



1596271

<https://www.phoenixcontact.com/us/products/1596271>

Schematic diagram



Dimensional drawing

RC-09S1N12Z500 - Cable connector



1596271

<https://www.phoenixcontact.com/us/products/1596271>

Classifications

ECLASS

ECLASS-13.0	27440116
ECLASS-15.0	27440116

ETIM

ETIM 9.0	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	edf4b920-1ae4-467b-b1eb-6f5f3704bde6

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