

RC-09S1N12Z500 - Cable connector



1596271

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

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M23, Cable connector, application: Signal, 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 |
|--|----|

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 group 1) | 1 |
| Contact diameter (Contact group 1) | 2 mm |
| Litz wires Min. cross section (Contact group 1) | 0.08 mm ² |
| Litz wires Max. cross section (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 group 2) | 8 |
| Contact diameter (Contact group 2) | 1 mm |
| Litz wires Max. cross section (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 |
| Design | angled |

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| | |
|-----------------------------------|-------------------------|
| 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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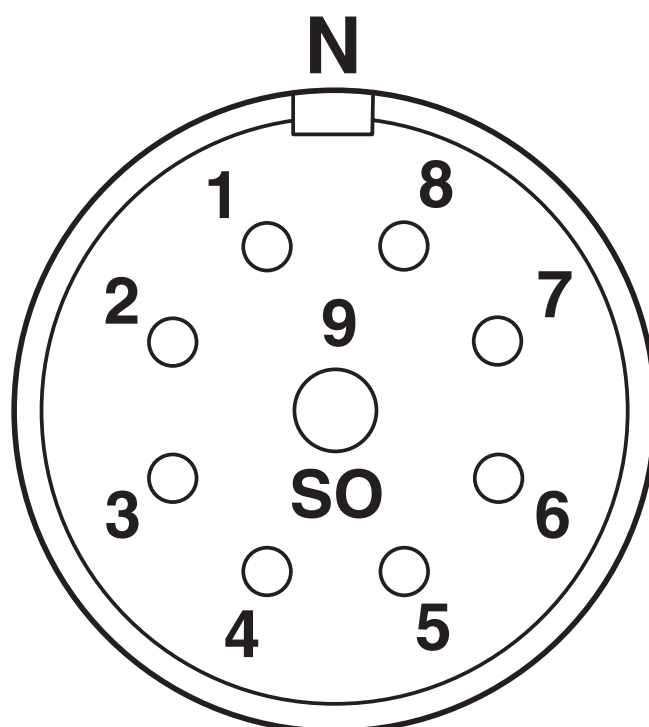


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Drawings

Schematic diagram



Connector pin assignment

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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

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|-----------|----------|
| ETIM 10.0 | EC002635 |
|-----------|----------|

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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