# RC-07P1N8AT0EM - Cable connector

1594489

https://www.phoenixcontact.com/us/products/1594489

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The figure shows the 12-pos. product version

M23, Cable connector, application: Signal, series: RC, angled, shielded: yes, Screw locking mechanism, No. of pos.: 7, Direction of rotation: Standard, contact connection type: Pin, Crimp connection, cable diameter range: 3 mm ... 10.5 mm, coding: N, this item is expected to be lead-free from Q1 2027 in accordance with RoHS II without exception 6c (Pb < 0.1%), a lead-free alternative is possible on request in advance. 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 | 1594489 |
| Packing unit | 8 pc |
| Minimum order quantity | 8 pc |
| Sales key | AB31 |
| Product key | ABRAFC |
| GTIN | 4046356201698 |
| Weight per piece (including packing) | 151.76 g |
| Weight per piece (excluding packing) | 137.568 g |
| Customs tariff number | 85366990 |
| Country of origin | DE |

## Technical data

### Notes

| | |
|---|---|
| Order information: | Order crimp contacts Ø 2 mm separately |

### Product properties

| | |
|---|---|
| Product type | Circular connector (cable-side) |

### Connector

Insulating body

| | |
|---|---|
| Note | Order information: Order crimp contacts Ø 2 mm separately |
| Coding | N |
| Material (Insulating body) | PA 6.6 |
| Flammability rating according to UL 94 | V0 |
| Connection method | Crimp connection |
| Contact switching type | Pin |
| Application | Signal |
| Number of positions | 7 |
| Direction of rotation | Standard |
| Connection profile | 7 |
| Number (Contact group 1) | 7 |
| Contact diameter (Contact group 1) | 2 mm |
| 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 | angled |
| Type of locking | Screw locking mechanism |
| Pg screw connection | none |
| Material (Housing) | GD-Zn |
| Material (Rotating parts) | CuZn |
| Material (Housing surface) | Ni |
| Material (Seal) | FPM (O-ring) |
| Seal material | FPM or NBR or EPDM |
| Degree of protection (plugged in) | IP67 |

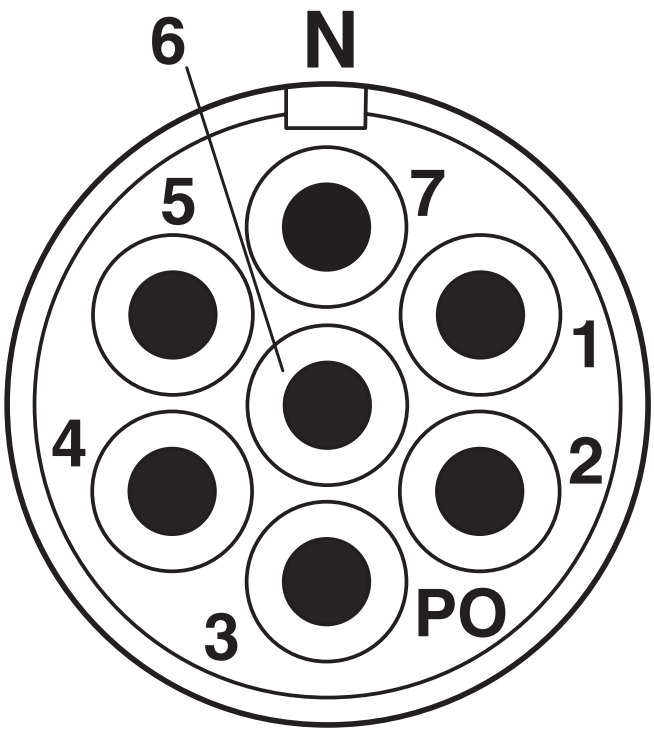
Seal

| | |
|---|---|
| External cable diameter | 3 mm ... 10.5 mm |

| | |
|---|---|
| Seal material | NBR |

## Drawings

Schematic diagram




Connector pin assignment

## Classifications

### ECLASS

| | |
|---|---|
| ECLASS-13.0 | 27440116 |
| ECLASS-15.0 | 27440116 |

### ETIM

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

### UNSPSC

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|---|---|
| UNSPSC 21.0 | 39121400 |

## Environmental product compliance

EU RoHS

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|---|---|
| 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 | f77383e6-a54a-4d32-950a-b55ce832ad41 |


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