

# RC-07P1N8A80EP - Cable connector



1594458

<https://www.phoenixcontact.com/us/products/1594458>

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M23, Cable connector, application: Signal, straight, 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 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                          | 1594458                        |
| Packing unit                         | 20 pc                          |
| Minimum order quantity               | 1 pc                           |
| Note                                 | Made to order (non-returnable) |
| Product key                          | ABRAFA                         |
| GTIN                                 | 4046356201490                  |
| Weight per piece (including packing) | 70.93 g                        |
| Weight per piece (excluding packing) | 67.373 g                       |
| Country of origin                    | DE                             |

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## 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<br>74 V DC  |
| Rated surge voltage                     | 1.5 kV  |
| Overvoltage category                    | III   |
| Degree of pollution                     | 3   |

#### Housing

|                                   |                                  |
|-----------------------------------|----------------------------------|
| Note                              | Order contact inserts separately |
| Type                              | Cable connector housing          |
| Thread type                       | M23                              |
| Design                            | straight                         |
| Type of locking                   | Screw locking mechanism          |
| Pg screw connection               | none                             |
| Material (Housing)                | Metal                            |
| Degree of protection (plugged in) | IP65<br>IP67<br>IP68             |

#### Seal

|                         |                  |
|-------------------------|------------------|
| External cable diameter | 3 mm ... 10.5 mm |
| Seal material           | NBR              |

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## Environmental and real-life conditions

### Ambient conditions

|  |
|--|
| Permissible humidity (storage/transport) |
|--|

|               |
|---------------|
| 50 % ... 65 % |
|---------------|

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## Drawings

Schematic diagram



Connector pin assignment

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## Classifications

### ECLASS

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

### ETIM

|           |          |
|-----------|----------|
| 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                                | 372ee447-2450-47cf-bb2f-37dd5cefd7e4 |

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