

RC-63P1N120000 - Contact insert



1603538

<https://www.phoenixcontact.com/us/products/1603538>

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The figure shows the 9-pos.
product version

Contact insert, M23, number of positions: 6+3, contact connection type: Pin, Solder cup, series: NC, RC, RM, TU, UC, this item is expected to be lead-free from Q2 2026 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 | 1603538 |
| Packing unit | 10 pc |
| Minimum order quantity | 1 pc |
| Sales key | AB31 |
| Product key | ABRAFU |
| GTIN | 4046356245944 |
| Weight per piece (including packing) | 9.6 g |
| Weight per piece (excluding packing) | 7.115 g |
| Customs tariff number | 85366990 |
| Country of origin | DE |

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Technical data

Product properties

| | |
|---------------------|----------------|
| Product type | Contact insert |
| Series | NC |
| | RC |
| | RM |
| | TU |
| | UC |
| Application | Signal |
| Number of positions | 9 |
| Connection profile | 6+3 |
| Coding | N |
| Thread type | M23 |

Electrical properties

Contact: Contact group 1

| | |
|--------------------------------|--|
| Contact diameter | 2 mm |
| Min. cross section | 0.08 mm ² |
| Max. cross section | 2.5 mm ² |
| Nominal current I _N | 20 A (for max. connection cross section) |
| Nominal voltage U _N | 48 V AC |
| | 74 V DC |
| Overvoltage category | III |
| Degree of pollution | 3 |
| Rated surge voltage | 1.5 kV |

Contact: Contact group 2

| | |
|--------------------------------|----------------------|
| Contact diameter | 1 mm |
| Min. cross section | 0.08 mm ² |
| Max. cross section | 1 mm ² |
| Nominal current I _N | 8 A |

Connection data

| | |
|-------------------|------------|
| Connection method | Solder cup |
|-------------------|------------|

Material specifications

| | |
|--------------------------|-------|
| Material Insulating body | PBT |
| Material Contact | CuZn |
| Material Contact surface | Ni/Au |

Connector

| | |
|-----------------------|----------|
| Direction of rotation | Standard |
|-----------------------|----------|

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Mechanical properties

Mechanical data

| | |
|-----------------------------|----|
| Insertion/withdrawal cycles | 50 |
|-----------------------------|----|

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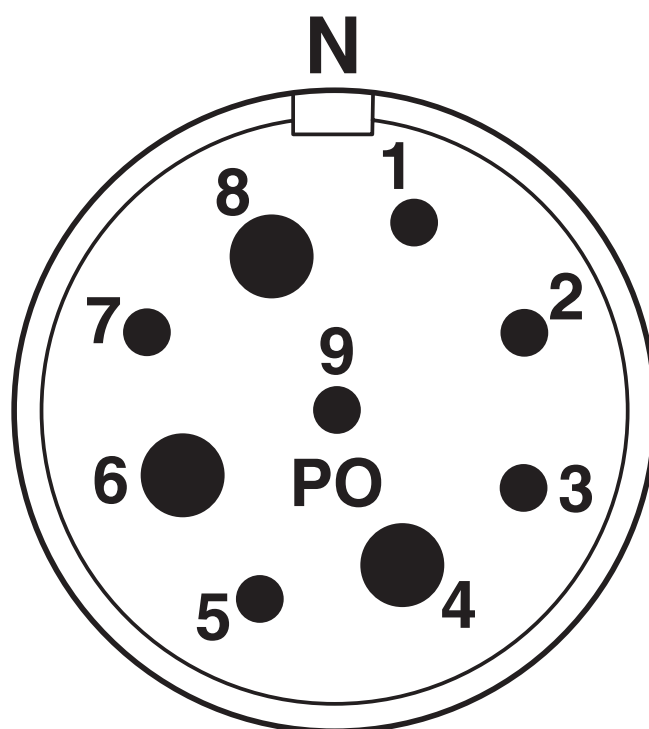


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Drawings

Schematic diagram



Connector pin assignment

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Schematic diagram



Dimensional drawing

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Classifications

ECLASS

| | |
|-------------|----------|
| ECLASS-13.0 | 27440223 |
| ECLASS-15.0 | 27440223 |

ETIM

| | |
|-----------|----------|
| ETIM 10.0 | EC003557 |
|-----------|----------|

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 | 9003b509-2e69-4b2b-8482-67f9398628a1 |

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