

# TU-09P1N12R4DU - Circular connector (cable-side)



1613274

<https://www.phoenixcontact.com/us/products/1613274>

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## Commercial data

|                                      |                                |
|--------------------------------------|--------------------------------|
| Item number                          | 1613274                        |
| Packing unit                         | 10 pc                          |
| Minimum order quantity               | 1 pc                           |
| Note                                 | Made to order (non-returnable) |
| Product key                          | ABRAHA                         |
| GTIN                                 | 4046356399128                  |
| Weight per piece (including packing) | 130.89 g                       |
| Weight per piece (excluding packing) | 122.32 g                       |
| Country of origin                    | DE                             |

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## Technical data

### Product properties

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

### 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                                 | Pin                                      |
| 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 <sup>2</sup>                     |
| Litz wire cross-section max. Contact (Contact group 1) | 2.5 mm <sup>2</sup>                      |
| 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 <sup>2</sup>                     |
| Litz wire cross-section max. Contact (Contact group 2) | 1 mm <sup>2</sup>                        |
| Rated current Contact (Contact group 2)                | 8 A                                      |
| Rated voltage Contact (Contact group 2)                | 48 V AC                                  |
|                                                        | 48 V AC                                  |

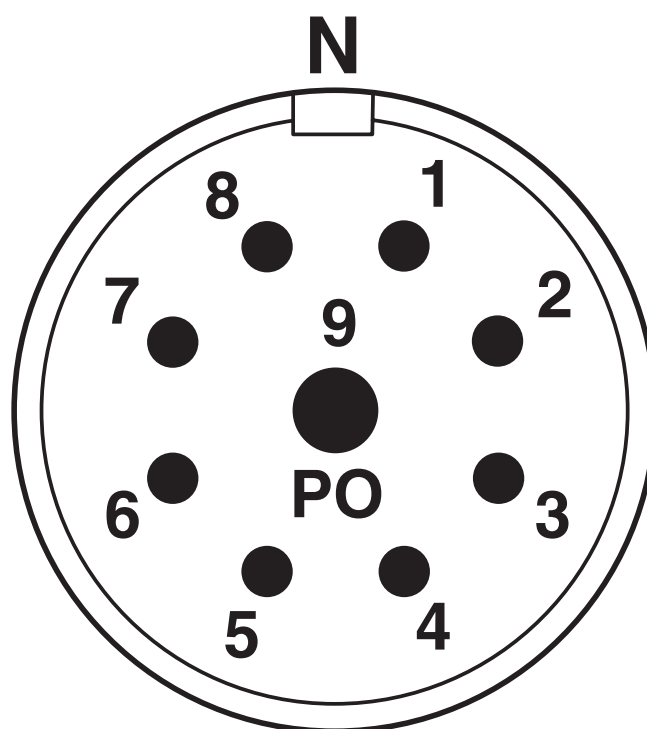
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## Drawings

Schematic diagram



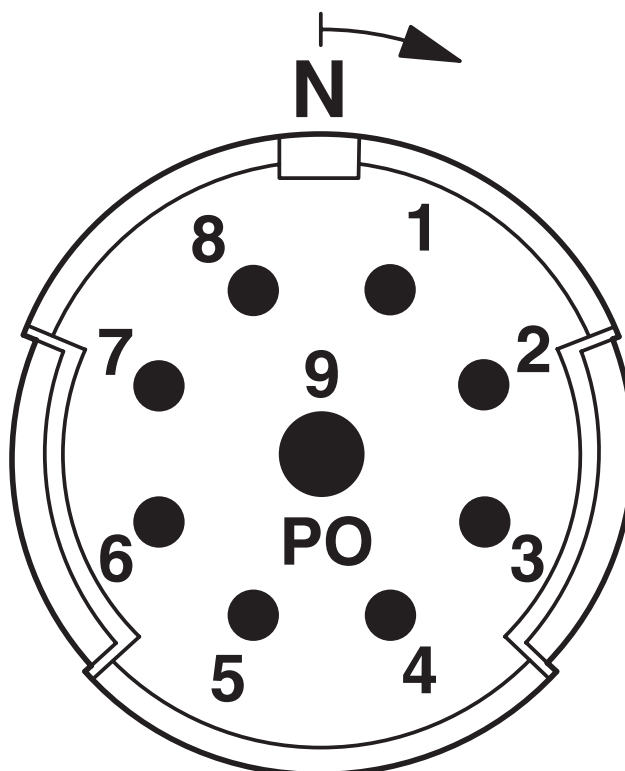
Connector pin assignment

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Schematic diagram



Connector pin assignment

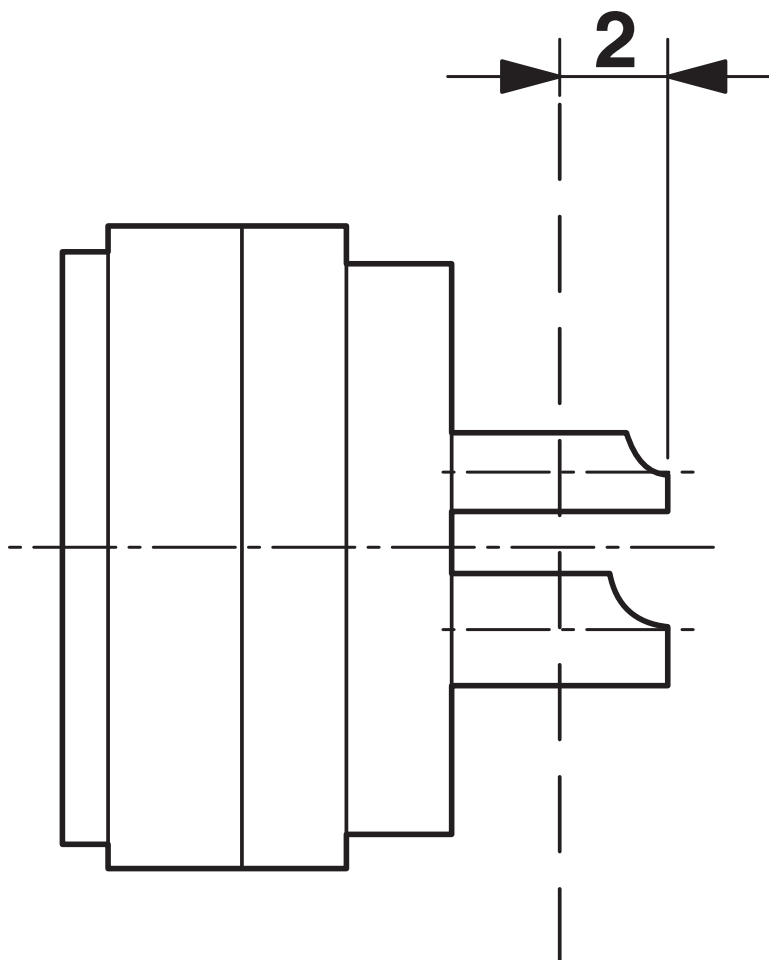
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Schematic diagram



Dimensional drawing

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