

# RF-17P1N8AWA00 - Device connector front mounting



1607860

<https://www.phoenixcontact.com/us/products/1607860>

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Device connector front mounting, straight, Screw locking mechanism, M23, number of positions: 17, contact connection type: Pin, Axial O-ring, 4x Ø 3.2, shielded: yes, number of positions: 17, connection method: Crimp connection, series: RF

## Your advantages

- Safe use in the field, thanks to high degree of protection
- Connector for flexible on-site assembly
- Consistent EMC protection for reliable connection solutions in the industrial environment
- Crimping connection: vibration- and temperature-resistant assembly
- Crimping connection: vibration- and temperature-resistant assembly

## Commercial data

|                                      |                     |
|--------------------------------------|---------------------|
| Item number                          | 1607860             |
| Packing unit                         | 1 pc                |
| Minimum order quantity               | 1 pc                |
| Sales key                            | AB31                |
| Product key                          | ABRAFL              |
| Catalog page                         | Page 112 (C-2-2019) |
| GTIN                                 | 4046356174947       |
| Weight per piece (including packing) | 35.5 g              |
| Weight per piece (excluding packing) | 31.1 g              |
| Customs tariff number                | 85366990            |
| Country of origin                    | DE                  |

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## Technical data

### Notes

|                    |  |
|--------------------|--|
| Order information: | Order crimp contacts Ø 1 mm separately |
|--------------------|--|

### Mounting

|               |                |
|---------------|----------------|
| Mounting type | Front mounting |
| Mounting      | 4x Ø 3.2       |

### Product properties

|                     |                                   |
|---------------------|-----------------------------------|
| Product type        | Circular connectors (device side) |
| Series              | RF                                |
| Application         | Signal                            |
|                     | Signal                            |
| Number of positions | 17                                |
| Connection profile  | 17                                |
| Shielded            | yes                               |
| Coding              | N                                 |
| Thread type         | M23                               |

### Material specifications

|                            |  |
|----------------------------|--|
| Seal material              | FPM  |
| Housing material           | Turned parts: copper zinc alloy (CuZn), die-cast parts: zinc (GD-Zn) |
| Insulator material         | PA 6.6   |
| Gasket and O-ring material | FPM  |

### Electrical properties

#### Contact

|                       |                 |
|-----------------------|-----------------|
| Contact diameter      | 1 mm            |
| Max. current          | 8 A             |
| Nominal voltage $U_N$ | 48 V AC 74 V DC |
| Overvoltage category  | III             |
| Degree of pollution   | 3               |
| Rated surge voltage   | 1.5 kV          |

### Connection data

#### Conductor connection

|                         |                  |
|-------------------------|------------------|
| Connection method       | Crimp connection |
| Contact connection type | Pin              |

### Connector

|      |          |
|------|----------|
| Type | straight |
|------|----------|

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

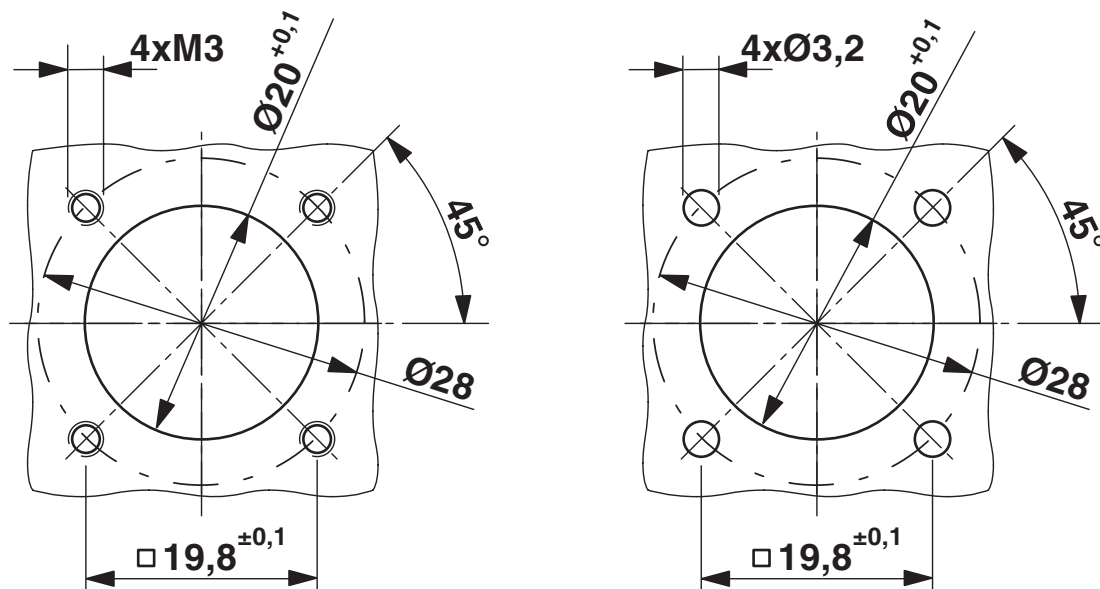
## Environmental and real-life conditions

### Ambient conditions

|                                 |                   |
|---------------------------------|-------------------|
| Degree of protection            | IP67              |
| Ambient temperature (operation) | -40 °C ... 125 °C |
| Altitude                        | 2000 m            |

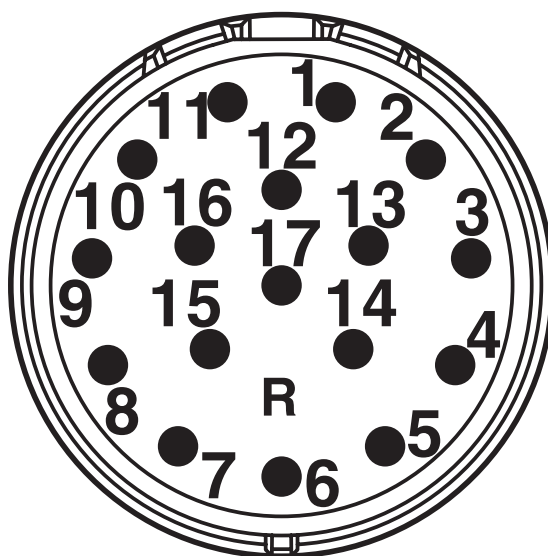
## Drawings

Dimensional drawing



Installation dimensions

Schematic diagram

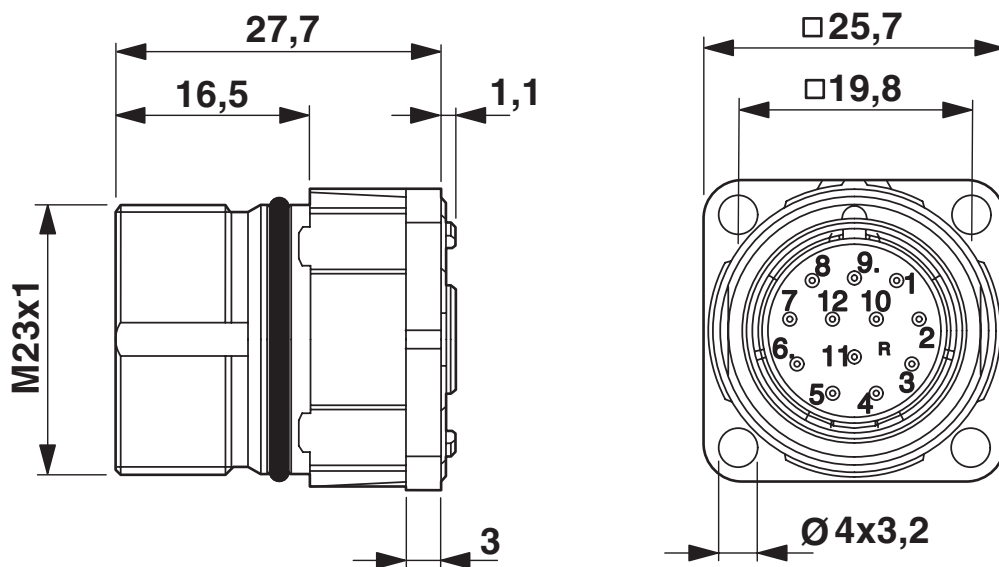


Contact chamber numbering (view of plug-in side), standard pin

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Dimensional drawing



Dimensional drawing

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1607860>

|  |                                |                                |                   |                               |
|--|--------------------------------|--------------------------------|-------------------|-------------------------------|
|  <b>cUL Recognized</b><br>Approval ID: E153698-20090723 |                                |                                |                   |                               |
|  | Nominal voltage U <sub>N</sub> | Nominal current I <sub>N</sub> | Cross section AWG | Cross section mm <sup>2</sup> |
|  | 48 V                           | 1 A                            | 26 - 26           | -                             |

|   |                                |                                |                   |                               |
|---|--------------------------------|--------------------------------|-------------------|-------------------------------|
|  <b>UL Recognized</b><br>Approval ID: E153698-20090723 |                                |                                |                   |                               |
|   | Nominal voltage U <sub>N</sub> | Nominal current I <sub>N</sub> | Cross section AWG | Cross section mm <sup>2</sup> |
|   | 48 V                           | 1 A                            | 26 - 26           | -                             |

|                         |  |  |  |  |
|-------------------------|--|--|--|--|
| <b>cULus Recognized</b> |  |  |  |  |
|-------------------------|--|--|--|--|

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-11.0 | 27440102 |
| ECLASS-12.0 | 27440116 |
| ECLASS-13.0 | 27440116 |

### ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | EC002635 |
|----------|----------|

### UNSPSC

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

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## Environmental product compliance

### EU RoHS

|   |                    |
|---|--------------------|
| Fulfills EU RoHS substance requirements | Yes, No exemptions |
|---|--------------------|

### China RoHS

|  |  |
|--|--|
| Environment friendly use period (EFUP) | EFUP-E                                   |
|  | No hazardous substances above the limits |

### EU REACH SVHC

|                                     |                            |
|-------------------------------------|----------------------------|
| REACH candidate substance (CAS No.) | No substance above 0.1 wt% |
|-------------------------------------|----------------------------|

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