

# RF-17P1N8A9003 - Coupler connector



1607325

<https://www.phoenixcontact.com/us/products/1607325>

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



Coupler connector, straight, Screw locking mechanism, M23, number of positions: 17, contact connection type: Pin, shielded: yes, degree of protection: IP67, cable diameter range: 9 mm ... 13.2 mm, number of positions: 17, connection method: Crimp connection, series: RF, 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                          | 1607325                        |
| Packing unit                         | 20 pc                          |
| Minimum order quantity               | 1 pc                           |
| Note                                 | Made to order (non-returnable) |
| Sales key                            | AB31                           |
| Product key                          | ABRAGG                         |
| GTIN                                 | 4046356269025                  |
| Weight per piece (including packing) | 95.51 g                        |
| Weight per piece (excluding packing) | 91.066 g                       |
| Customs tariff number                | 85366990                       |
| Country of origin                    | DE                             |

# RF-17P1N8A9003 - Coupler connector



1607325

<https://www.phoenixcontact.com/us/products/1607325>

## Technical data

### Notes

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

### Product properties

|                     |                                 |
|---------------------|---------------------------------|
| Product type        | Circular connector (cable-side) |
| Series              | RF                              |
| Application         | Feedback, signal                |
|                     | Signal                          |
| Number of positions | 17                              |
| Connection profile  | 17                              |
| Shielded            | yes                             |
| Coding              | N                               |
| Thread type         | M23                             |

### Material specifications

|                          |              |
|--------------------------|--------------|
| Material Housing         | GD-Zn        |
| Material Rotating parts  | CuZn         |
| Material Housing surface | Ni           |
| Material Insulating body | PA 6.6       |
| Material Seal            | FPM (O-ring) |

### Connection data

|                      |                  |
|----------------------|------------------|
| Conductor connection |                  |
| Connection method    | Crimp connection |

### Electrical properties

|                       |         |
|-----------------------|---------|
| Contact               |         |
| Contact diameter      | 1 mm    |
| Nominal current $I_N$ | 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  |

### Connector

|                       |          |
|-----------------------|----------|
| Type                  | straight |
| Direction of rotation | Standard |

### Cable/line

|                         |                  |
|-------------------------|------------------|
| External cable diameter | 9 mm ... 13.2 mm |
|-------------------------|------------------|

# RF-17P1N8A9003 - Coupler connector



1607325

<https://www.phoenixcontact.com/us/products/1607325>

## Environmental and real-life conditions

### Ambient conditions

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

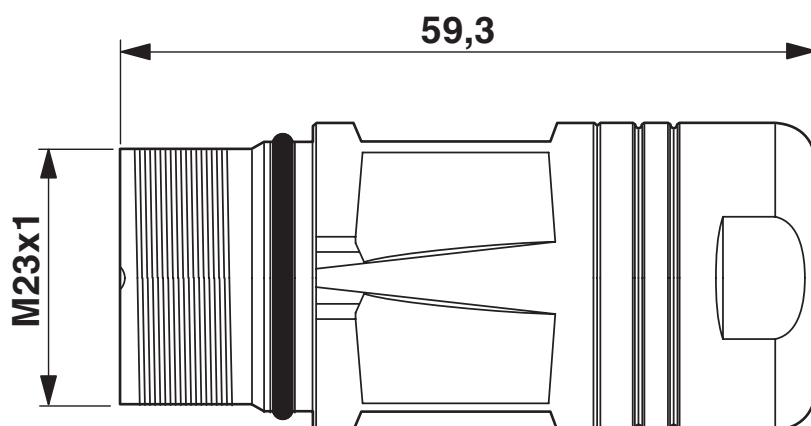
# RF-17P1N8A9003 - Coupler connector

1607325

<https://www.phoenixcontact.com/us/products/1607325>

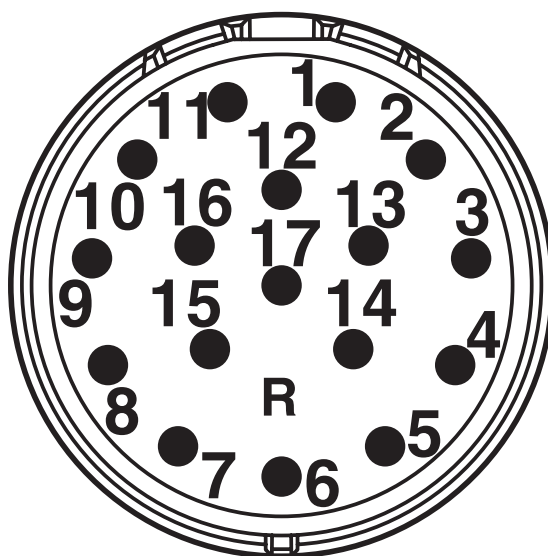
## Drawings

Dimensional drawing



Dimensional drawing

Schematic diagram



Connector pin assignment

# RF-17P1N8A9003 - Coupler connector



1607325

<https://www.phoenixcontact.com/us/products/1607325>

## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1607325>

|                                                                                                                                          |                       |                       |                   |                             |
|------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
|  <b>cUL Recognized</b><br>Approval ID: E153698-20090723 |                       |                       |                   |                             |
|                                                                                                                                          | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| keine                                                                                                                                    |                       |                       |                   |                             |
|                                                                                                                                          | 48 V                  | 1 A                   | 26                | -                           |

|                                                                                                                                         |                       |                       |                   |                             |
|-----------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
|  <b>UL Recognized</b><br>Approval ID: E153698-20090723 |                       |                       |                   |                             |
|                                                                                                                                         | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| keine                                                                                                                                   |                       |                       |                   |                             |
|                                                                                                                                         | 48 V                  | 1 A                   | 26                | -                           |

# RF-17P1N8A9003 - Coupler connector



1607325

<https://www.phoenixcontact.com/us/products/1607325>

## Classifications

### ECLASS

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

### ETIM

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

### UNSPSC

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

# RF-17P1N8A9003 - Coupler connector



1607325

<https://www.phoenixcontact.com/us/products/1607325>

## 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                                | ed3d27c6-1c33-464d-b924-3586c74141c0 |

Phoenix Contact 2025 © - all rights reserved

<https://www.phoenixcontact.com>

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