

## SMA Male to RA SMA Male Cable RG316-DS Coax in 36 Inch with LF Solder

The SMA male to RA SMA male 36 inch cable using RG316-DS coax, part number FMC0204317LF-36, from Fairview Microwave is in-stock and ships same day. This Fairview SMA to SMA cable assembly has a male to male gender configuration with 50 ohm flexible RG316-DS coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FMC0204317LF-36 SMA male to SMA male cable assembly operates to 3 GHz. The right angle SMA interface on the RG316-DS cable allows for easier connections in tight spaces. The double shielding of this Fairview cable assembly provides excellent shielding effectiveness.

Custom versions of most RF cable assemblies can be built and shipped same day. Custom cable assembly lengths can be obtained by specifying the desired length on the web site at time of order or by contacting a sales representative. Other RF cable assembly value added services including connector orientation or clocking, heat shrink booting and labeling are also available. RF testing can also be performed to document the electrical performance of your cable assembly.

### Electrical Specifications

| Description             | Min   | Typ     | Max    | Units        |
|-------------------------|-------|---------|--------|--------------|
| Frequency Range         | DC    |         | 3      | GHz          |
| VSWR                    |       |         | 1.35:1 |              |
| Velocity of Propagation |       | 70      |        | %            |
| Capacitance             | 29.39 | [96.42] |        | pF/ft [pF/m] |

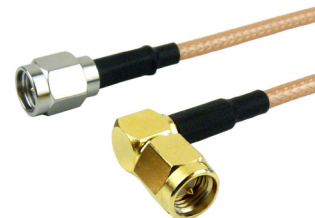
### Mechanical Specifications

#### Cable Assembly

|         |                    |
|---------|--------------------|
| Length* | 36 in [914.4 mm]   |
| Weight  | 0.07 lbs [31.75 g] |

#### Cable

|                                      |                            |
|--------------------------------------|----------------------------|
| Cable Type                           | RG316-DS                   |
| Impedance                            | 50 Ohms                    |
| Inner Conductor Type                 | Stranded                   |
| Inner Conductor Material and Plating | Copper, Silver             |
| Dielectric Type                      | PTFE                       |
| Number of Shields                    | 2                          |
| Shield Layer 1                       | Silver Plated Copper Braid |
| Shield Layer 2                       | Silver Plated Copper Braid |
| Jacket Material                      | FEP, Tan                   |
| Jacket Diameter                      | 0.114 in [2.9 mm]          |



### Configuration:

- SMA Male
- SMA Male Right Angle
- RG316-DS

### Features:

- Max Frequency 3 GHz
- 70% Phase Velocity
- Double Shielded
- FEP Jacket

### Applications:

- General Purpose
- Laboratory Use

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## Connectors

| Description                     | Connector 1      | Connector 2     |
|---------------------------------|------------------|-----------------|
| Type                            | SMA Male         | SMA Male        |
| Configuration                   | Straight         | Right Angle     |
| Impedance                       | 50 Ohms          | 50 Ohms         |
| Contact Material & Plating      | Brass, Gold      | Brass, Gold     |
| Contact Plating Spec.           | 30μ in. Min      | 50μ in. minimum |
| Dielectric Type                 | PTFE             | PTFE            |
| Body Material & Plating         | Brass, Nickel    | Brass, Gold     |
| Body Plating Spec.              | 100μ in. Minimum | 3μ in. minimum  |
| Coupling Nut Material & Plating | Brass, Nickel    |                 |
| Coupling Nut Plating Spec.      | 100μ in. Minimum |                 |
| Hex Size                        | 5/16 in          | 5/16 inch       |
| Torque                          | 5 in-lbs 0.57 Nm |                 |

## Environmental Specifications

### Temperature

Operating Range -55 to +200 deg C

## Compliance Certifications (see [product page](#) for current document)

## Plotted and Other Data

Notes:

## How to Order

Part Number Configuration:

**FMC0204317LF - xx uu**

cm = Centimeters  
 <blank> = Inches

Length

Example: FMC0204317LF-12 = 12 inches long cable  
 FMC0204317LF-100cm = 100 cm long cable

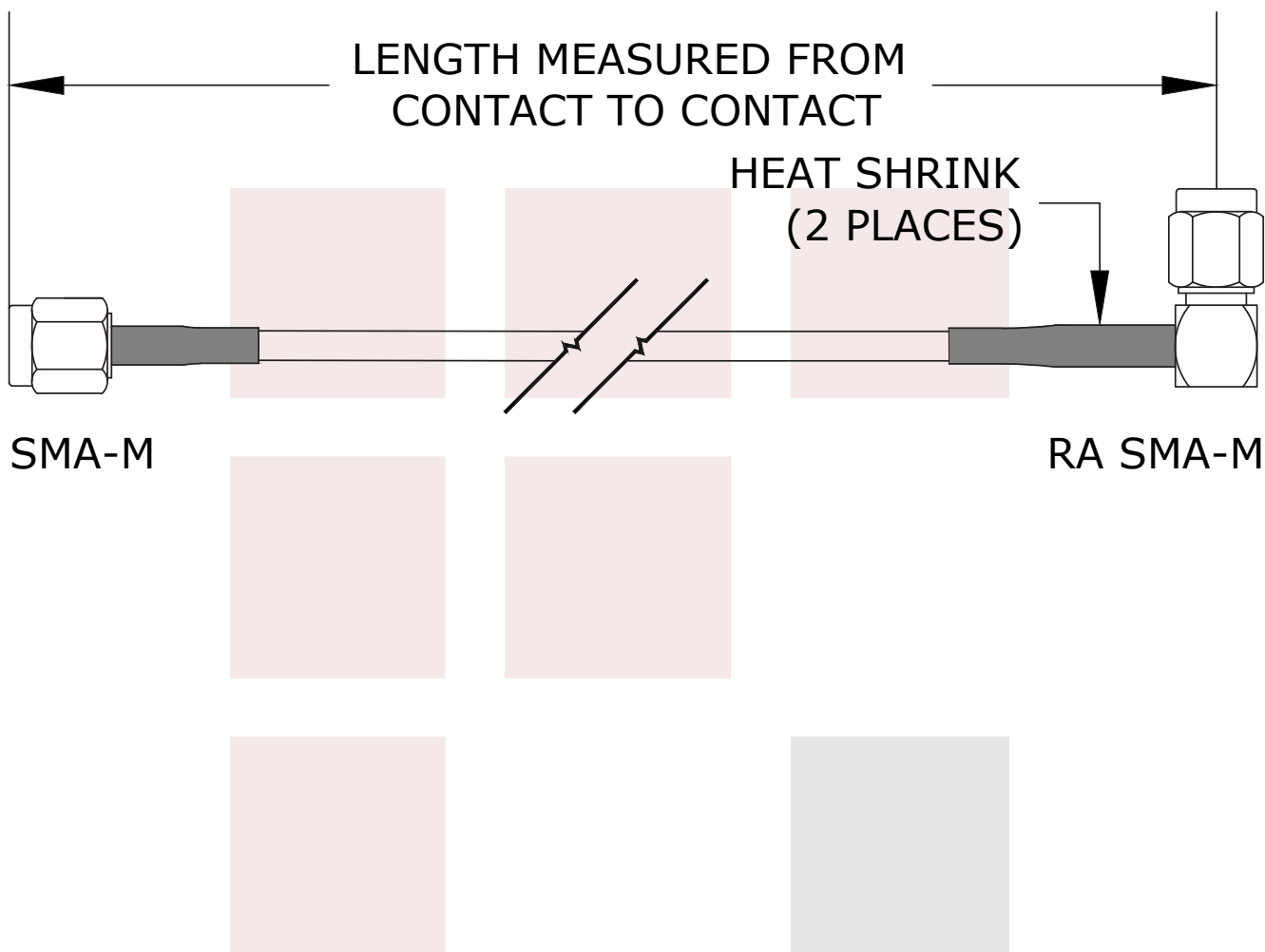
SMA Male to RA SMA Male Cable RG316-DS Coax in 36 Inch with LF Solder from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link to obtain additional part information: [SMA Male to RA SMA Male Cable RG316-DS Coax in 36 Inch with LF Solder FMC0204317LF-36](https://www.fairviewmicrowave.com/standard-sma-male-ra-sma-male-cable-rg316ds-coax-fmc0204317lf-36-p.aspx)

URL: <https://www.fairviewmicrowave.com/standard-sma-male-ra-sma-male-cable-rg316ds-coax-fmc0204317lf-36-p.aspx>

The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Fairview Microwave reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Fairview Microwave does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Fairview Microwave does not assume any liability arising out of the use of any part or documentation.





|                                                                             |              |                                                                                                                                                                                     |           |       |      |
|-----------------------------------------------------------------------------|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-------|------|
| <b>FAIRVIEW MICROWAVE INC.</b><br>ALLEN, TX 75013 WWW.FAIRVIEWMICROWAVE.COM |              | NOTES:<br>1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.<br>2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.<br>3. DIMENSIONS ARE IN INCHES [mm]. |           |       |      |
| TITLE                                                                       | DWG NO       |                                                                                                                                                                                     | CAGE CODE |       |      |
|                                                                             | FMC0204317LF |                                                                                                                                                                                     | 3FKR5     |       |      |
|                                                                             | CAD FILE     | 101514                                                                                                                                                                              | SHEET     | SCALE | N/A  |
|                                                                             |              |                                                                                                                                                                                     |           | SIZE  | A    |
|                                                                             |              |                                                                                                                                                                                     |           |       | 5568 |

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