

## RA SMA Male to RA SMA Male Cable RG-400 Coax



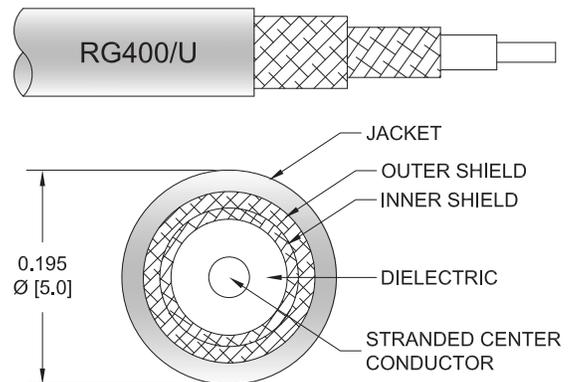
### FMC01378

#### Configuration

- Connector 1: SMA Male Right Angle
- Connector 2: SMA Male Right Angle
- Cable Type: RG-400
- Coax Flex Type: Flexible

#### Features

- Max Frequency 12.4 GHz
- 70% Phase Velocity
- Double Shielded
- FEP Jacket



#### Applications

- General Purpose
- Laboratory Use

#### Description

The RA SMA male to RA SMA male cable using RG400 coax, part number FMC01378, 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 RG-400 coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FMC01378 SMA male to SMA male cable assembly operates to 12.4 GHz. The right angle SMA interfaces on the RG-400 cable allow 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             | Minimum | Typical     | Maximum | Units        |
|-------------------------|---------|-------------|---------|--------------|
| Frequency Range         | DC      |             | 12.4    | GHz          |
| VSWR                    |         |             | 1.4:1   |              |
| Velocity of Propagation |         | 70          |         | %            |
| Capacitance             |         | 32 [104.99] |         | pF/ft [pF/m] |
| Operating Voltage (AC)  |         |             | 500     | Vrms         |

#### Specifications by Frequency

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**FMC01378**

| Part Number | Length                   | Description           | F1        | F2   | F3   | F4   | F5   | Units | Weight (lbs) |
|-------------|--------------------------|-----------------------|-----------|------|------|------|------|-------|--------------|
|             |                          |                       | Frequency |      | 500  | 1000 | 2500 |       |              |
| FMC01378    | Custom Lengths Available | Insertion Loss (Typ.) | 0.09      | 0.14 | 0.23 | 0.36 | 0.57 | dB/ft |              |
|             |                          |                       | 0.3       | 0.46 | 0.76 | 1.19 | 1.88 | dB/m  |              |
| FMC01378-6  | 6 Inch                   | Insertion Loss (Typ.) | 0.45      | 0.47 | 0.52 | 0.58 | 0.69 | dB    | 0.049        |
| FMC01378-12 | 12 Inch                  | Insertion Loss (Typ.) | 0.49      | 0.54 | 0.63 | 0.76 | 0.97 | dB    | 0.07         |
| FMC01378-24 | 24 Inch                  | Insertion Loss (Typ.) | 0.58      | 0.68 | 0.86 | 1.12 | 1.54 | dB    | 0.112        |
| FMC01378-36 | 36 Inch                  | Insertion Loss (Typ.) | 0.67      | 0.82 | 1.09 | 1.48 | 2.11 | dB    | 0.154        |
| FMC01378-72 | 72 inch                  | Insertion Loss (Typ.) | 0.94      | 1.24 | 1.78 | 2.56 | 3.82 | dB    | 0.28         |

The insertion loss data for the base model does not include loss due to the connectors. Each length includes insertion loss due to the connectors.

Loss due to Connector 1: 0.2 dB  
 Loss due to Connector 2: 0.2 dB  
 Base Weight: 0.07 pounds  
 Additional Weight per Inch: 0.0035 pounds

**Mechanical Specifications**

**Cable Assembly**

Weight 0.07 lbs [31.75 g]

**Cable**

Cable Type RG-400  
 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 0.195 in [4.95 mm]  
 Repeated Minimum Bend Radius 1 in [25.4 mm]

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**Connectors**

| Description                        | Connector 1          | Connector 2          |
|------------------------------------|----------------------|----------------------|
| Type                               | SMA Male Right Angle | SMA Male Right Angle |
| Specification                      | MIL-STD-348A         | MIL-STD-348A         |
| Impedance                          | 50 Ohms              | 50 Ohms              |
| Configuration                      | Right Angle          | Right Angle          |
| Contact Material and Plating       | Brass, Gold          | Brass, Gold          |
| Contact Plating Specification      | 50 µin minimum       | 50 µin minimum       |
| Dielectric Type                    | PTFE                 | PTFE                 |
| Body Material and Plating          | Brass, Gold          | Brass, Gold          |
| Body Plating Specification         | 3 µin minimum        | 3 µin minimum        |
| Coupling Nut Material and Plating  | Brass, Gold          | Brass, Gold          |
| Coupling Nut Plating Specification | 3 µin minimum        | 3 µin minimum        |
| Hex Size                           | 5/16 inch            | 5/16 inch            |

**Environmental Specifications**

Operating Range Temperature -55 to +165 deg C

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

**Plotted and Other Data**

Notes:

## RA SMA Male to RA SMA Male Cable RG-400 Coax



### FMC01378

#### Typical Performance Data

#### How to Order

Part Number Configuration:

**FMC01378**

- **xx**

**uu**

Unit of Measure:

cm = Centimeters

<blank> = Inches

Length

Base Number

Example: FMC01378-12 = 12 inches long cable  
FMC01378-100cm = 100 cm long cable

RA SMA Male to RA SMA Male Cable RG-400 Coax from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [RA SMA Male to RA SMA Male Cable RG-400 Coax FMC01378](#)

URL: <https://www.fairviewmicrowave.com/ra-sma-male-to-ra-sma-male-cable-rg-400-coax-fmc01378-p.aspx>

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# FMC01378 CAD Drawing

## RA SMA Male to RA SMA Male Cable RG-400 Coax

