

## Flexible RA SMA Male to SSMC Plug Cable RG316 Coax in 60 Inch

The RA SMA male to SSMC plug 60 inch cable using RG-316 coax, part number FMC00513-60, from Fairview Microwave is in-stock and ships same day. This Fairview SMA to SSMC cable assembly has a male to plug gender configuration with 50 ohm flexible RG316 coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FMC00513-60 SMA male to SSMC plug cable assembly operates to 3 GHz. The right angle SMA interface on the RG316 cable allows for easier connections in tight spaces.

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			1.4:1	
Velocity of Propagation		69		%
Capacitance		29.4 [96.46]		pF/ft [pF/m]
Operating Voltage (AC)			335	Vrms
Dielectric Withstanding Voltage (AC)			2,000	Vrms
Jacket Spark			2,000	Vrms

### Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.1	0.25	0.5	1	3	GHz
Insertion Loss (Typ.)	0.91	1.21	1.68	2.53	3.73	dB

#### Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax and connectors used in this assembly. The Insertion Loss includes an estimated 0.15 dB for the right angle connector and 0.1 dB for the straight connector.

### Mechanical Specifications

#### Cable Assembly

Length\* 60 in [152.4 cm]

#### Cable

Cable Type RG316  
 Impedance 50 Ohms  
 Inner Conductor Type Stranded  
 Inner Conductor Material and Plating Copper Clad Steel, Silver  
 Dielectric Type PTFE  
 Number of Shields 1



### Configuration:

- SMA Male Right Angle
- SSMC Plug
- RG316

### Features:

- Max Frequency 3 GHz
- 69% Phase Velocity
- FEP Jacket

### Applications:

- General Purpose
- Laboratory Use

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Shield Layer 1 Silver Plated Copper Braid  
 Jacket Material FEP, Tan  
 Jacket Diameter 0.102 in [2.59 mm]

**Connectors**

Description	Connector 1	Connector 2
Type	SMA Male	SSMC Plug
Specification	MIL-STD-348A	
Impedance	50 Ohms	50 Ohms
Mating Cycles		500
Contact Material & Plating	Brass, Gold	Beryllium Copper, Gold
Contact Plating Spec.	50 µin minimum	
Dielectric Type	PTFE	PTFE
Body Material & Plating	Brass, Nickel	Beryllium Copper, Gold
Body Plating Spec.	100 µin minimum	
Coupling Nut Material & Plating	Brass, Nickel	Brass, Gold
Coupling Nut Plating Spec.	100 µin minimum	
Hex Size	5/16 inch	5/32 inch

**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:

**FMC00513 - xx uu**

cm = Centimeters  
 <blank> = Inches  
 Length

Example: FMC00513-12 = 12 inches long cable  
 FMC00513-100cm = 100 cm long cable

Flexible RA SMA Male to SSMC Plug Cable RG316 Coax in 60 Inch 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: [Flexible RA SMA Male to SSMC Plug Cable RG316 Coax in 60 Inch FMC00513-60](#)

URL: <https://www.fairviewmicrowave.com/ra-sma-male-ssmc-plug-cable-rg316-coax-fmc00513-60-p.aspx>

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