

## SSMC Plug to SSMC Plug Cable RG-316 Coax

The SSMC plug to SSMC plug cable using RG-316 coax, part number FMC00729, from Fairview Microwave is in-stock and ships same day. This Fairview SSMC to SSMC cable assembly has a plug 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 FMC00729 SSMC plug to SSMC plug cable assembly operates to 3 GHz.

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]
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.)	0.11	0.16	0.238	0.38	0.58	dB/ft
	0.36	0.52	0.78	1.25	1.9	dB/m

#### Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.1 dB per connector.

### Mechanical Specifications

#### Cable Assembly

Weight 0.02 lbs [9.07 g]

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



### Configuration:

- SSMC Plug
- SSMC Plug
- RG316

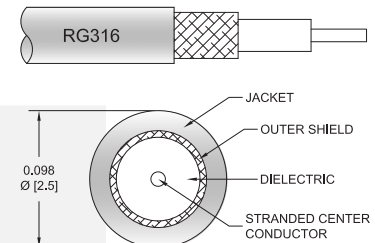
### Features:

- Max Frequency 3 GHz
- 69% Phase Velocity
- FEP Jacket
- 500 Mating Cycles

### Applications:

- General Purpose
- Laboratory Use

### Cable Diagram:



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**Connectors**

Description	Connector 1	Connector 2
Type	SSMC Plug	SSMC Plug
Impedance	50 Ohms	50 Ohms
Mating Cycles	500	500
Contact Material & Plating	Beryllium Copper, Gold	Beryllium Copper, Gold
Dielectric Type	PTFE	PTFE
Body Material & Plating	Beryllium Copper, Gold	Beryllium Copper, Gold
Coupling Nut Material & Plating	Brass, Gold	Brass, Gold
Hex Size	5/32 inch	5/32 inch

**Environmental Specifications**
**Temperature**

Operating Range

-45 to +120 deg C

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

**Plotted and Other Data**

Notes:

**How to Order**

Part Number Configuration:

**FMC00729 - xx uu**

 cm = Centimeters  
 <blank> = Inches

Length

 Example: FMC00729-12 = 12 inches long cable  
 FMC00729-100cm = 100 cm long cable

SSMC Plug to SSMC Plug Cable RG-316 Coax 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: [SSMC Plug to SSMC Plug Cable RG-316 Coax FMC00729](#)

 URL: <https://www.fairviewmicrowave.com/ssmc-plug-to-ssmc-plug-cable-rg-316-coax-fmc00729-p.aspx>

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