



FMC00167

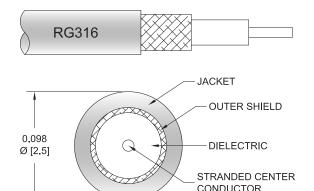
Configuration

Connector 1: SMA MaleConnector 2: SSMC PlugCable Type: RG-316Coax Cable Group: 8

· Coax Flex Type: Flexible

Features

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



Applications

· General Purpose

· Laboratory Use

Description

The SMA male to SSMC plug cable using RG-316 coax, part number FMC00167, 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 RG-316 coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FMC00167 SMA male 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	Minimum	Typical	Maximum	Units		
Frequency Range	DC		3	GHz		
VSWR		1.4:1				
Velocity of Propagation		69				
Capacitance		29.4 [96.46]				
Jacket Spark			2,000	Vrms		

Specifications by Frequency





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Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
		Frequency	100	250	500	1000	3000	MHz	
FMC00167	Custom Lengths	Insertion Loss (Typ.)	0.11	0.16	0.23	0.38	0.58	dB/ft	
TWE60187	Available	ilisertion Loss (Typ.)	0.37	0.53	0.76	1.25	1.91	dB/m	
FMC00167-12	12 Inch	Insertion Loss (Typ.)	0.31	0.36	0.43	0.58	0.78	dB	0.028
FMC00167-24	24 Inch	Insertion Loss (Typ.)	0.42	0.52	0.66	0.96	1.36	dB	0.039
FMC00167-36	36 Inch	Insertion Loss (Typ.)	0.53	0.68	0.89	1.34	1.94	dB	0.049
FMC00167-48	48 Inch	Insertion Loss (Typ.)	0.64	0.84	1.12	1.72	2.52	dB	0.059
FMC00167-72	72 Inch	Insertion Loss (Typ.)	0.86	1.16	1.58	2.48	3.68	dB	0.079

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: 0.1 dB Loss due to Connector 2: 0.1 dB Base Weight: 0.028 pounds Additional Weight per Inch: 0.00084 pounds

Mechanical Specifications

Cable Assembly

Weight 0.028 lbs [12.7 g]

Cable

Cable Type RG-316 Impedance 50 Ohms Inner Conductor Type Stranded

Copper Clad Steel, Silver Inner Conductor Material and Plating **PTFE**

Dielectric Type Number of Shields

Shield Layer 1 Silver Plated Copper Braid

Jacket Material FEP, Tan

Jacket Diameter 0.102 in [2.59 mm]





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Connectors

Description	Connector 1	Connector 2		
Туре	SMA Male	SSMC Plug		
Specification	MIL-STD-348A			
Impedance	50 Ohms	50 Ohms		
Configuration	Straight	Straight		
Mating Cycles		500		
Contact Material and Plating	Brass, Gold	Beryllium Copper, Gold		
Contact Plating Specification	50 μin minimum			
Dielectric Type	PTFE	PTFE		
Body Material and Plating	Brass, Nickel	Beryllium Copper, Gold		
Body Plating Specification	100 µin minimum			
Coupling Nut Material and Plating	Brass, Nickel	Brass, Gold		
Coupling Nut Plating Specification	100 μin minimum			
Hex Size	5/16 inch	5/32 inch		
Torque	3 in-lbs 0.34 Nm			

Environmental Specifications

Operating Range Temperature

-45 to +120 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:





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Typical Performance Data

How to Order



Example: FMC00167-12 = 12 inches long cable

FMC00167-100cm = 100 cm long cable

SMA Male to SSMC Plug Cable RG-316 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: SMA Male to SSMC Plug Cable RG-316 Coax FMC00167

URL: https://www.fairviewmicrowave.com/sma-male-to-ssmc-plug-cable-rg-316-coax-fmc00167-p.aspx

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