

FMCA1737 DATA SHEET

RA SMA Male to SSMC Plug Cable RG-316 Coax

Fairview Microwave's SSMC cable assemblies are part of our full line of RF components available for same-day shipping. These SSMC cable assemblies are designed to connect SSMC system components and test connections, delivering signal frequencies as high as 12.4 GHz. Our family of SSMC cables can also be used to connect SSMC ports on data acquisition systems, A/D modules or SSMC coax patch panels. If none of our standard options fit your application, you can specify your own custom SSMC cable assembly using Fairview's online RF Cable Designer.

Our SSMC cable assembly datasheet specifications and drawing with dimensions are shown below in this PDF. Fairview Microwave's broad catalog of RF, microwave and millimeter wave cable assemblies allow designers to configure and customize their signal connections however they like. Whether the need is to provide SSMC cabling for a data acquisition system, or simply create a custom cable assembly configuration, Pasternack has the right cable assemblies for the job. Fairview Microwave can also expertly build your custom cable assemblies for you and ship same day.

Electrical Specifications

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Description	Min	Ţ	ур	Max	Units
Frequency Range	DC			3	GHz
VSWR				1.5:1	
Velocity of Propagation		6	59		%
Operating Voltage (AC)				250	Vrms

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.05	0.1	0.4	1	3	GHz
Insertion Loss (Typ.)	0.08	0.11	0.21	0.38	0.58	dB/ft
	0.26	0.36	0.69	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 Diameter

Cable

Cable Type Impedance Inner Conductor Type Inner Conductor Material and Plating Dielectric Type Number of Shields Shield Layer 1 Jacket Material RG316 50 Ohms Stranded Copper Clad Steel, Silver PTFE 1 Silver Plated Copper Braid FEP, Tan

0.315 in [8 mm]



Configuration:

- SMA Male Right Angle
- SSMC Plug
- RG316

Features:

- Max Frequency 3 GHz
- 69% Phase Velocity
- FEP Jacket
- SSMC Cable Assembly Max. Operating Frequency of 3 GHz
- Small SSMC cable connection form factor (50% smaller than SMA, radially)
- Reliable threaded coupling
- In stock and ready to ship

Applications:

- General Purpose
- Laboratory Use
- SSMC Cable General Purpose Test
- Data Acquisition Systems
- A/D Conversion Systems
- Ultra Wideband Digital Receivers
- Software defined radio (SDR)

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Jacket Diameter

0.098 in [2.49 mm]

Connectors

Description	Connector 1	Connector 2	
Туре	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	MIL-G-45204	
Dielectric Type	PTFE	Teflon	
Body Material & Plating	Brass, Nickel	Beryllium Copper, Gold	
Body Plating Spec.	100 µin minimum	MIL-G-45204	
Coupling Nut Material & Pla	ting Brass, Nickel	Beryllium Copper, Gold	
Coupling Nut Plating Spec.	100 µin minimum	MIL-G-45206	
Hex Size	5/16 inch		
Torque	3 in-lbs [0.34 Nm]	1.75 in-lbs [0.2 Nm]	

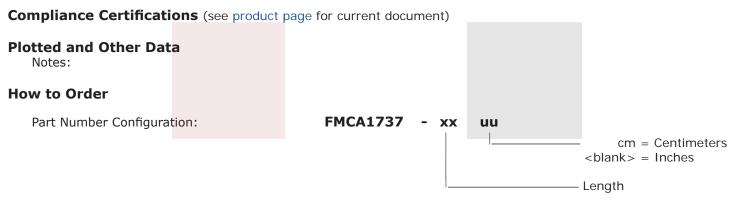
Mechanical Specification Notes:

*All cable assemblies have a length tolerance of 1.5% or $\pm 3/8"$, whichever is greater.

Environmental Specifications

Temperature Operating Range

-55 to +165 deg C



Example: FMCA1737-12 = 12 inches long cable FMCA1737-100cm = 100 cm long cable





RA SMA Male to SSMC Plug Cable RG-316 Coax from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and fiber optic products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link to obtain additional part information: RA SMA Male to SSMC Plug Cable RG-316 Coax FMCA1737

The information contained in this document is accurate to the best of our knowledge and representative of the part

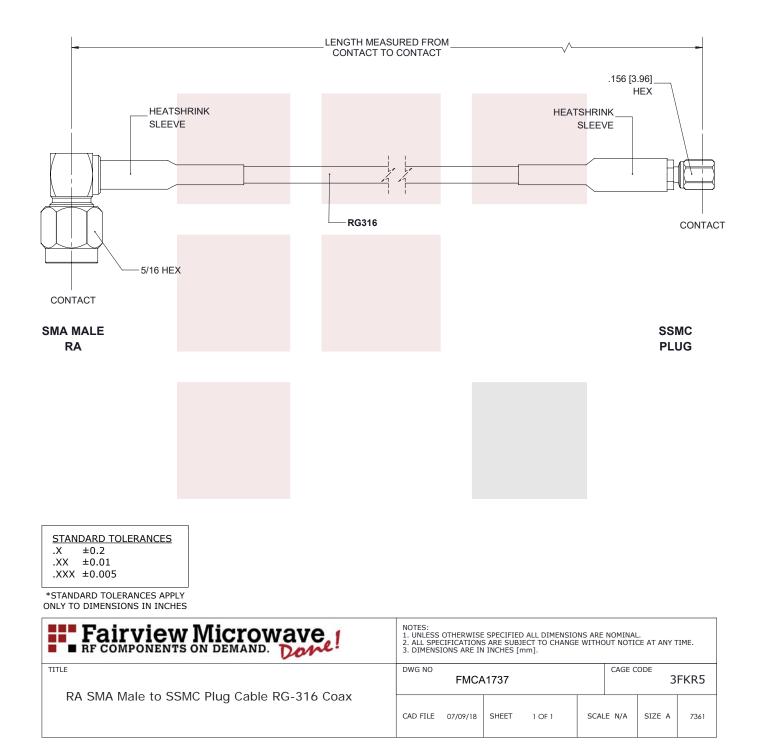
URL: https://www.fairviewmicrowave.com/ra-sma-male-ssmc-plug-cable-rg316-coax-fmca1737-p.aspx

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.

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