



RA SMA Male to SSMC Plug Cable RG316-DS Coax

Fairview Microwave's SSMC cable assemblies are part of our full line of RF interconnects available for same-day shipping. These SSMC cable assemblies are designed for test applications or connection of your SSMC system components. With a high frequency range up to 12.4 GHz, this family of SSMC cables can also be used to connect your data acquisition system or SSMC connections on your A/D converters. There are hundreds of possible cable assembly configurations to choose from, all available same day.

This SSMC cable assembly datasheet PDF contains specifications, CAD drawing and dimensions that are shown below. Fairview Microwave not only has many SSMC cable assembly options, but also a wide selection of RF, microwave and millimeter wave cable assemblies which allows RF designers to customize their configurations to whatever is required. Whether the need is to provide low loss SSMC I/O for digital receivers or simply create a custom cable assembly configuration, Fairview Microwave has the right cable assemblies for the job. Fairview can also expertly build your custom RF cable assemblies for you and ship same day.

Electrical Specifications

Description	Min	Т	ур	Max	Units
Frequency Range	DC			3	GHz
VSWR				1.5:1	
Velocity of Propagation			70		%
Capacitance		29.4	[96.46]	pF/ft [pF/m]
Operating Voltage (AC)				250	Vrms

Performance by Frequency

F1	F2	F3	F4	F5	Units
0.1	0.4	1	3		GHz
0.08	0.16	0.26	0.47		dB/ft
0.26	0.52	0.85	1.54		dB/m
	0.1	0.1 0.4 0.08 0.16	0.1 0.4 1 0.08 0.16 0.26	0.1 0.4 1 3 0.08 0.16 0.26 0.47	0.1 0.4 1 3 0.08 0.16 0.26 0.47

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 0.315 in [8 mm] 0.0375 lbs [17.01 g] Weight

Cable

Cable Type Impedance Inner Conductor Type Inner Conductor Material and Plating Dielectric Type Number of Shields Shield Layer 1

RG316-DS 50 Ohms Stranded Copper Clad Steel, Silver **PTFE**

2

Silver Plated Copper Braid



Configuration:

- SMA Male Right Angle
- SSMC Plug
- RG316-DS

Features:

- Max Frequency 3 GHz
- 70% Phase Velocity
- Double Shielded
- FEP Jacket
- · Reliable threaded SSMC cable connection
- Small form factor (SSMC connection is 50% smaller than SMA)
- · In stock and ready to ship

Applications:

- General Purpose
- Laboratory Use
- Software Defined Radio (SDR)
- Data acquisition systems with SSMC connections
- Digital Wideband Receivers
- SSMC patch panels
- A/D Conversion

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Shield Layer 2 Silver Plated Copper Braid

Jacket Material FEP, Tan

Jacket Diameter 0.114 in [2.9 mm]

Repeated Minimum Bend Radius 0.6 in [15.24 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, Gold	Beryllium Copper, Gold		
Body Plating Spec.	3 µin minimum	MIL-G-45204		
Coupling Nut Material & Pla	ating Brass, Gold	Beryllium Copper, Gold		
Coupling Nut Plating Spec.	3 µin minimum	MIL-G-45207		
Hex Size	5/16 inch			
Torque	3 in-lbs 0.34 Nm	1.75 in-lbs 0.2 Nm		

Environmental Specifications

Temperature

Operating Range -55 to +165 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

How to Order

Part Number Configuration:

FMCA1500 - xx

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cm = Centimeters

- Length

Example: FMCA1500-12 = 12 inches long cable

FMCA1500-100cm = 100 cm long cable





RA SMA Male to SSMC Plug Cable RG316-DS 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: RA SMA Male to SSMC Plug Cable RG316-DS Coax FMCA1500

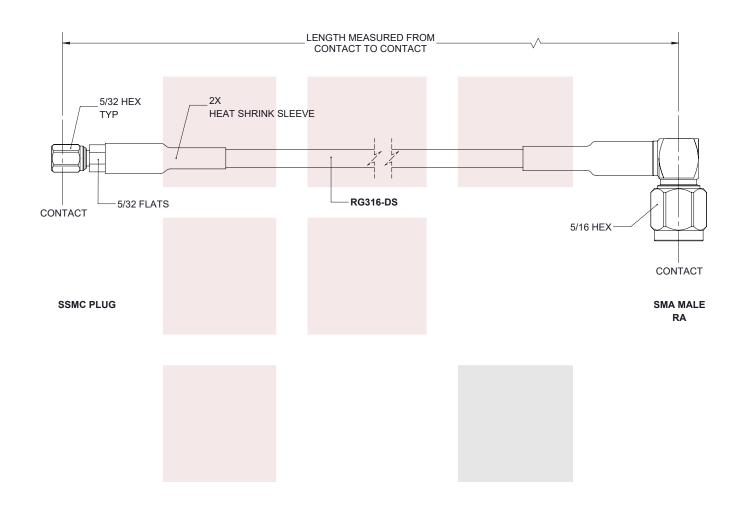
The information contained in this document is accurate to the best of our knowledge and representative of the part

URL: https://www.fairviewmicrowave.com/ra-sma-male-ssmc-plug-cable-rg316ds-coax-fmca1500-p.aspx









STANDARD TOLERANCES

.X ±0.2 .XX ±0.01 .XXX ±0.005

*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

Fairview Microwave an INFINIT® brand	NOTES: 1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL. 2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME. 3. DIMENSIONS ARE IN INCHES [mm].					
RA SMA Male to SSMC Plug Cable RG316-DS Coax	DWG NO FMCA1500			CAGE CODE 3FKR5		
	CAD FILE 09/25/19	SHEET 1 OF 1	SCAL	E N/A	SIZE A	7361