

# FMCA1501 DATA SHEET

# RA SMA Male to RA SSMC Plug Cable RG316-DS Coax

The RA SMA male to RA SSMC plug cable using RG316-DS coax, part number FMCA1501, 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-DS coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FMCA1501 SMA male to SSMC plug cable assembly operates to 3 GHz. The right angle SMA and right angle SSMC interfaces on the RG316-DS cable allow for easier connections in tight spaces. The double shielding of this Fairview cable assembly provides excellent shielding effectiveness.

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**

Min	т	ур	Мах	ι	Inits
DC			3		GHz
			1.6:1		
	-	70			%
	29.4	[96.46]		pF/f	t [pF/m]
			250	١	/rms
	DC	DC	DC 70	DC 3 1.6:1 70 29.4 [96.46]	DC 3 1.6:1 29.4 [96.46] pF/fi

Performance by	Freque	ncy				
Description	F1	F2	F3	F4	F5	Units
Frequency	0.1	0.25	0.5	1	3	GHz
Insertion Loss (Typ.)	0.082	0.128	0.1 <mark>9</mark> 4	0.29	0.535	dB
	0.27	0.42	0.64	0.95	1.76	

Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.1\*SQRT(FGHz) dB per connector.

### **Mechanical Specifications**

#### Cable Assembly

Length\* Weight

#### Cable

Cable Type Impedance Inner Conductor Type Inner Conductor Material and Plating Dielectric Type Number of Shields Shield Layer 1 0 in [0 mm] 0.037 lbs [16.78 g]

RG316-DS 50 Ohms Stranded Copper Clad Steel, Silver PTFE 2 Silver Plated Copper Braid



## **Configuration:**

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

### **Features:**

- Max Frequency 3 GHz
- 70% Phase Velocity
- Double Shielded
- FEP Jacket

## **Applications:**

- General Purpose
- Laboratory Use

Fairview Microwave 301 Leora Ln., Suite 100 Lewisville, TX 75056 Tel: 1-800-715-4396 / (972) 649-6678 Fax: (972) 649-6689 www.fairviewmicrowave.com sales@fairviewmicrowave.com Fairview Microwave

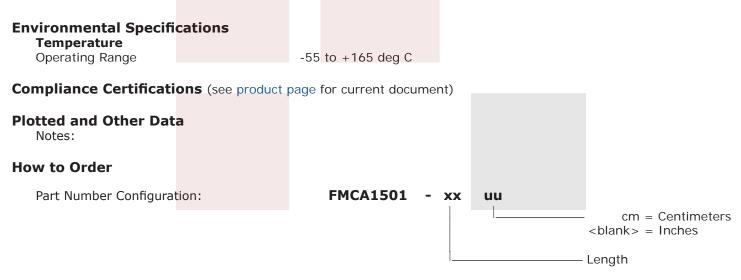
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Shield Layer 2	Silver Plated Copper Braid
Jacket Material	FEP, Tan
Jacket Diameter	0.114 in [2.9 mm]
Repeated Minimum Bend Radius	0.6 in [15.24 mm]

#### 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, Nickel	Brass, Gold	
Body Plating Spec.	100 µin minimum	MIL-G-45204	
Coupling Nut Material & Pla	ating Brass, Nickel	Beryllium Copper, Gold	
Coupling Nut Plating Spec.	100 µin minimum	MIL-G-45204	
Hex Size	5/16 inch		
Torque	3 in-lbs 0.34 Nm	1.75 in-lbs 0.2 Nm	



Example: FMCA1501-12 = 12 inches long cable FMCA1501-100cm = 100 cm long cable

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RA SMA Male to RA 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 RA SSMC Plug Cable RG316-DS Coax FMCA1501

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-to-ra-ssmc-plug-cable-rg316-ds-coax-fmca1501-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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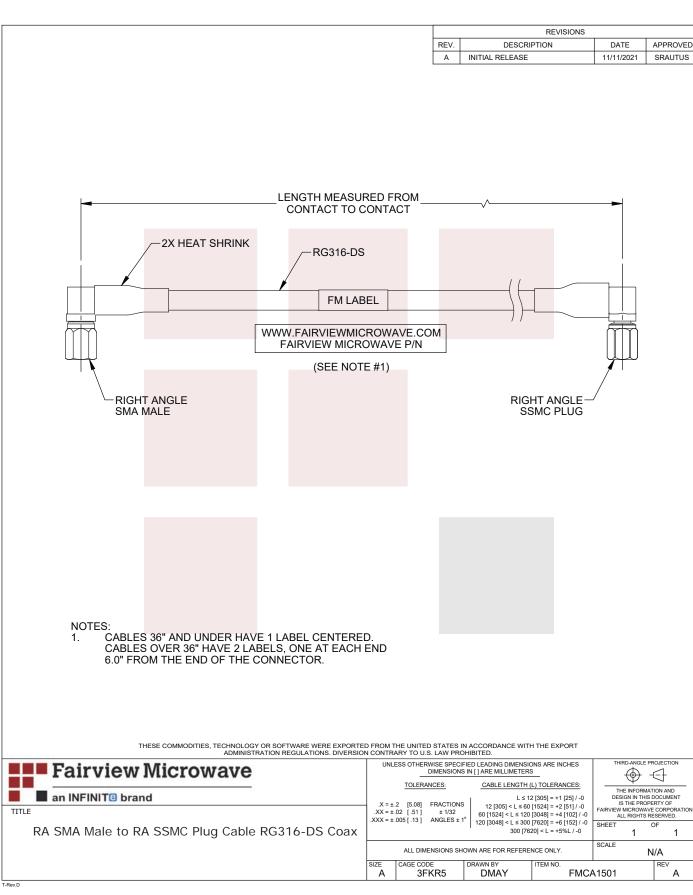
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