

# FMCA1497 DATA SHEET

# RA SSMC Plug to RA SSMC Plug Cable RG-316-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**

Min	т	yp Max	Units
DC		3	GHz
		1.6:1	
		70	%
	29.4	[96.46]	pF/ft [pF/m]
		250	Vrms
	DC	DC	DC 3 1.6:1 29.4 [96.46]

Performance by	Freq <mark>ue</mark> i	ıcy				
Description	F1	F2	F3	F4	F5	Units
Frequency	0.1	0.4	1	3		GHz
						dB/m
Insertion Loss (Typ.)	0.08	0.16	0.26	0.47		dB/ft
	0.26	0.52	0.85	1.54		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 RG316DS 50 Ohms Stranded

Copper Clad Steel, Silver

PTFE

2

0.156 in [3.96 mm]



## **Configuration:**

- SSMC Plug Right Angle
- SSMC Plug Right Angle
- RG316DS

### **Features:**

- Reliable threaded SSMC cable connection
- Max. Operating Frequency of 3 GHz
- Small form factor (SSMC connection is 50% smaller than SMA)
- In stock and ready to ship

# **Applications:**

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

Fairview Microwave 1130 Junction Dr. #100 Allen, TX 75013 Tel: 1-800-715-4396 / (972) 649-6678 Fax: (972) 649-6689 www.fairviewmicrowave.com sales@fairviewmicrowave.com





Shield Layer 1
Shield Layer 2
Jacket Material
Jacket Diameter

Silver Plated Copper Braid Silver Plated Copper Braid FEP, Tan 0.114 in [2.9 mm]

Repeated Minimum Bend Radius

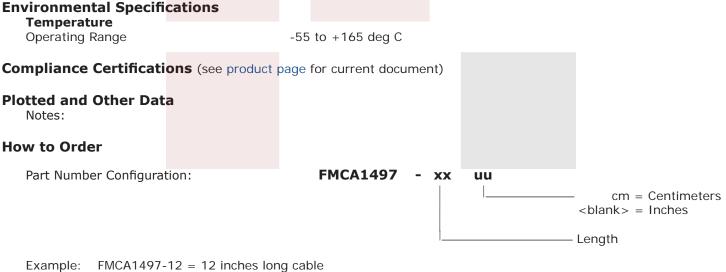
0.6 in [15.24 mm]

#### Connectors

Description	Connector 1	Connector 2
Туре	SSMC Plug	SSMC Plug
Impedance	50 Ohms	50 Ohms
Mating Cycles	500	500
Contact Material & Plating	Beryllium Copper, G	old Beryllium Copper, Gold
Contact Plating Spec.	MIL-G-45204	MIL-G-45204
Dielectric Type	Teflon	Teflon
Body Material & Plating	Brass, Gold	Brass, Gold
Body Plating Spec.	MIL-G-45204	MIL-G-45204
Coupling Nut Material & Pla	ating Beryllium Copper, G	old Beryllium Copper, Gold
Coupling Nut Plating Spec.	MIL-G-45204	MIL-G-45204
Torque	1.75 in-lbs [0.2 Ni	m] 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.



ample: FMCA1497-12 = 12 inches long cable FMCA1497-100cm = 100 cm long cable

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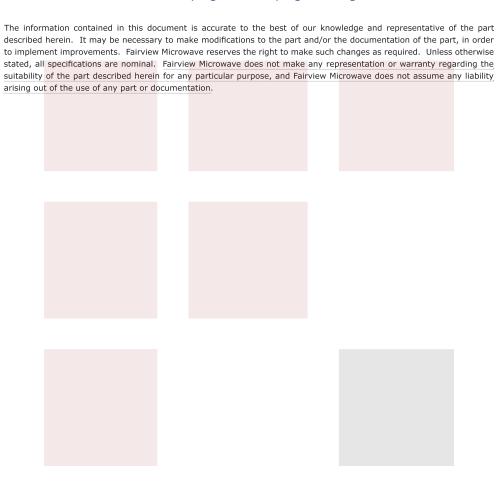




RA SSMC Plug to RA SSMC Plug Cable RG-316-DS Coax from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and fiber optic products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link to obtain additional part information: RA SSMC Plug to RA SSMC Plug Cable RG-316-DS Coax FMCA1497

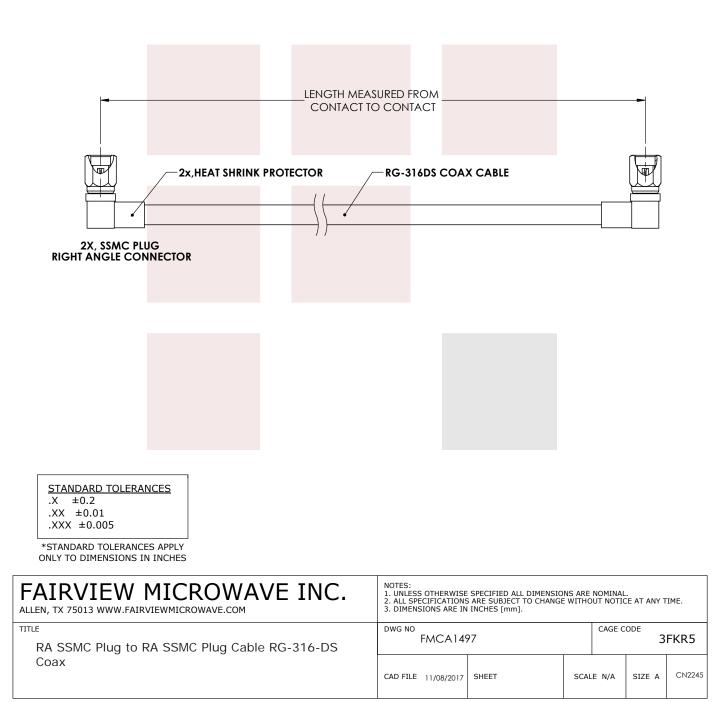
URL: https://www.fairviewmicrowave.com/ra-ssmc-plug-ra-ssmc-plug-cable-rg316ds-coax-fmca1497-p.aspx



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