

# FMCA1457-12 DATA SHEET

# **RA SSMC Plug to RA SSMC Plug Cable RG178 Coax in 12 Inch**

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	ур М	lax L	Inits
DC			3	GHz
		1	.5:1	
		70		%
	29.4	[96.46]	pF/f	t [pF/m]
		2	250 N	/rms
	DC	DC	DC 1 70 29.4 [96.46]	DC 3 1.5:1 29.4 [96.46] pF/f

#### Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.1	0.4	1	3		GHz
Insertion Loss (Typ.)	0.34	0.48	0.65	0.99		dB

# **Mechanical Specifications**

# Cable Assembly Length\*

Diameter

#### Cable

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

Repeated Minimum Bend Radius

12 in [304.8 mm] 0.156 in [3.96 mm]

RG178 50 Ohms Stranded Copper Clad Steel, Silver PTFE 1 Silver Plated Copper Braid FEP, Tan 0.072 in [1.83 mm]

0.4 in [10.16 mm]



# **Configuration:**

- SSMC Plug Right Angle
- SSMC Plug Right Angle
- RG178

# **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





### 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, Gold	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 & Plating	Beryllium Copper, Gold	Beryllium Copper, Gold	
Coupling Nut Plating Spec.	MIL-G-45204	MIL-G-45204	
Torque	1.75 in-lbs [0.2 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

**Compliance Certifications** (see product page for current document)

# Plotted and Other Data

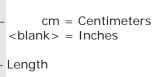
Notes:

# How to Order

Part Number Configuration:

FMCA1457 - xx

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Example: FMCA1457-12 = 12 inches long cable FMCA1457-100cm = 100 cm long cable

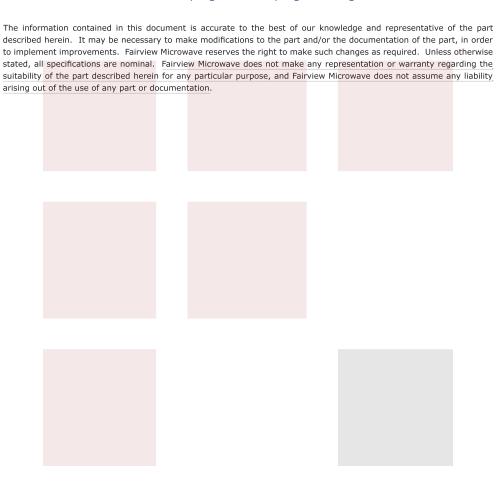




RA SSMC Plug to RA SSMC Plug Cable RG178 Coax in 12 Inch from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and fiber optic products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link to obtain additional part information: RA SSMC Plug to RA SSMC Plug Cable RG178 Coax in 12 Inch FMCA1457-12

URL: https://www.fairviewmicrowave.com/ra-ssmc-plug-ra-ssmc-plug-cable-rg178-coax-fmca1457-12-p.aspx



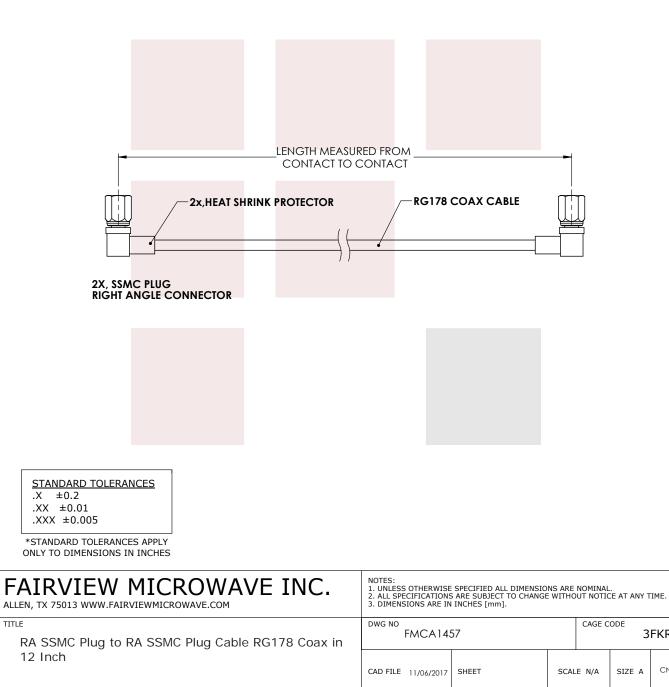
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