

FMCA1459 DATA SHEET

RA SSMC Plug to SSMC Jack Bulkhead Cable RG178 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	ур Мах	Units
DC		3	GHz
		1.5:1	
		70	%
	29.4	96.46]	pF/ft [pF/m]
		250	Vrms
	DC	DC	DC 3 1.5:1 29.4 [96.46]

Description			F 2	E 4		Line in a
Description	F1	F2	F3	F4	F5	Units
Frequency	0.1	0.4	1	3		GHz
						dB/m
Insertion Loss (Typ.)	0.14	0.28	0.44	0.78		dB/ft
	0.46	0.92	1.44	2.56		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 0.156 in [3.96 mm]

RG178 50 Ohms Stranded Copper Clad Steel, Silver PTFE 1



Configuration:

- SSMC Plug Right Angle
- SSMC Jack Bulkhead
- 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





Shield Layer 1	Silver Plated Copper Braid
Jacket Material	FEP, Tan
Jacket Diameter	0.072 in [1.83 mm]
Repeated Minimum Bend Radius	0.4 in [10.16 mm]

Connectors

Description	Connector 1		Connector 2	
Туре	SSMC Plug		SSMC Jack	
Mount Method			Bulkhea	d
Impedance	50 Ohms		50 Ohm	S
Mating Cycles	500		500	
Contact Material & Plating	Beryllium Copper	Gold	Beryllium Copp	er, Go <mark>ld</mark>
Contact Plating Spec.	MIL-G-45204	1	MIL-G-452	04
Dielectric Type	Teflon		Teflon	
Outer Cond Material & Plati	ing		Beryllium Copp	er, Go <mark>ld</mark>
Outer Cond Plating Spec.			MIL-G-452	04
Body Material & Plating	Brass, Gold		Beryllium Copp	er, Gold
Body Plating Spec.	MIL-G-45204	1	MIL-G-452	04
Coupling Nut Material & Pla	ating Beryllium Copper	G <mark>old</mark>		
Coupling Nut Plating Spec.	MIL-G-45204	1		
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

Temperat	ture
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:



Example: FMCA1459-12 = 12 inches long cable FMCA1459-100cm = 100 cm long cable

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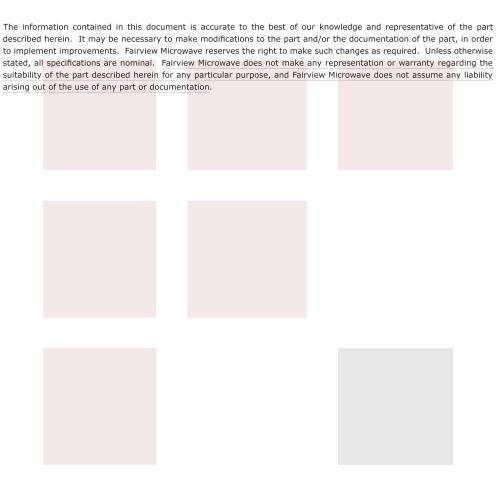




RA SSMC Plug to SSMC Jack Bulkhead Cable RG178 Coax from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and fiber optic products maintain a 99% availability and are part of the broadest selection in the industry.

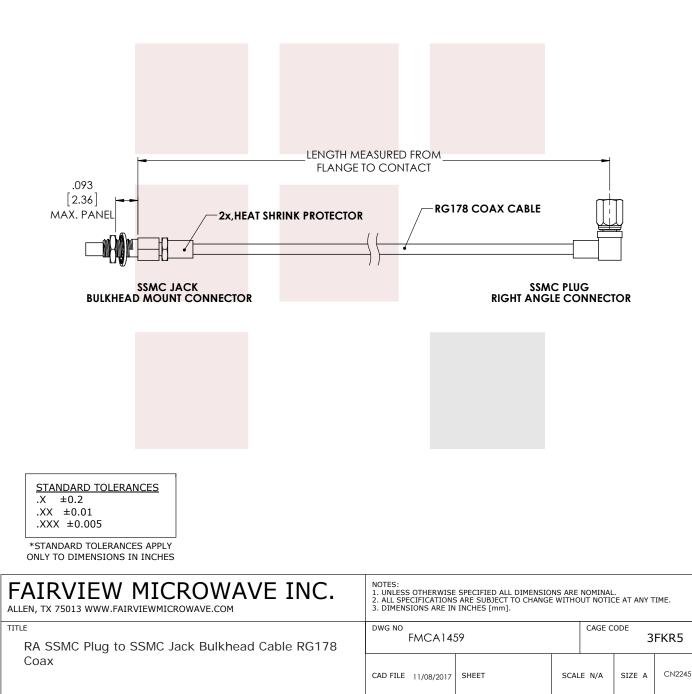
Click the following link to obtain additional part information: RA SSMC Plug to SSMC Jack Bulkhead Cable RG178 Coax FMCA1459

URL: https://www.fairviewmicrowave.com/ra-ssmc-plug-ssmc-jack-cable-rg178-coax-fmca1459-p.aspx









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