

FMCA1459-48 DATA SHEET

RA SSMC Plug to SSMC Jack Bulkhead Cable RG178 Coax in 48 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

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

Description	F1	F2	F3	F4	F5	Units
Frequency	0.1	0.4	1	3		GHz
Insertion Loss (Typ.)	0.76	1.32	1.98	3.34		dB

Mechanical Specifications

Cable Assembly

Jacket Diameter

Length* 48 in [121.92 cm]
Diameter 0.156 in [3.96 mm]

Cable

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

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

RG178

50 Ohms

Repeated Minimum Bend Radius 0.4 in [10.16 mm]



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

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- Length

Connectors

Description	Connector 1	Connector 2		
Туре	SSMC Plug	SSMC Jack		
Mount Method		Bulkhead		
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		
Outer Cond Material & Plating	9	Beryllium Copper, Gold		
Outer Cond Plating Spec.		MIL-G-45204		
Body Material & Plating	Brass, Gold	Beryllium Copper, Gold		
Body Plating Spec.	MIL-G-45204	MIL-G-45204		
Coupling Nut Material & Platin	ng Beryllium Copper, Gold			
Coupling Nut Plating Spec.	MIL-G-45204			
Torque	1.75 in-lbs [0.2 Nm]	1.75 in-lbs [0.2 Nm]		

Mechanical Specification Notes:

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:

FMCA1459 - xx uu

cm = Centimeters

Example: FMCA1459-12 = 12 inches long cable

FMCA1459-100cm = 100 cm long cable

^{*}All cable assemblies have a length tolerance of 1.5% or \pm 3/8", whichever is greater.





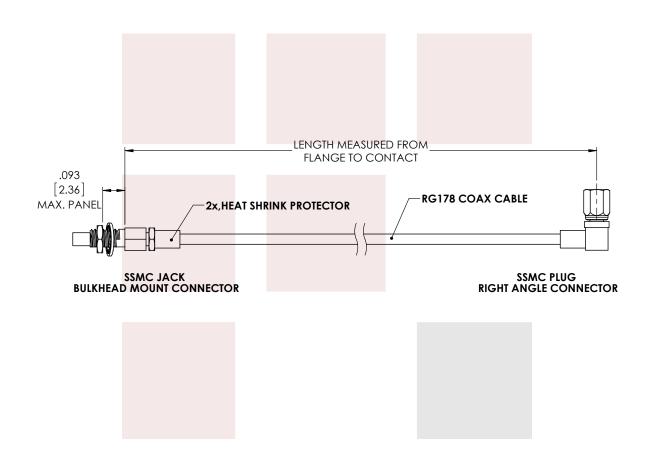
RA SSMC Plug to SSMC Jack Bulkhead Cable RG178 Coax in 48 Inch from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and fiber optic products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link to obtain additional part information: RA SSMC Plug to SSMC Jack Bulkhead Cable RG178 Coax in 48 Inch FMCA1459-48

URL: https://www.fairviewmicrowave.com/ra-ssmc-plug-ssmc-jack-cable-rg178-coax-fmca1459-48-p.aspx







STANDARD TOLERANCES

.X ±0.2 .XX ±0.01 .XXX ±0.005

*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

FAIRVIEW MICROWAVE INC. ALLEN, TX 75013 WWW.FAIRVIEWMICROWAVE.COM	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 SSMC Plug to SSMC Jack Bulkhead Cable RG178	DWG NO FMCA1459			CAGE CODE 3FKR5		
Coax in 48 Inch	CAD FILE 11/08/2017	SHEET	SCAL	E N/A	SIZE A	CN2245