Fairview Microwave
RF COMPONENTS ON DEMAND. *Done!*

RA SSMC Plug to SSMC Jack Bulkhead 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.

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

Electrical Specifications

Description	Min	Typ	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.)	0.34	0.48	0.65	0.99		dB

Mechanical Specifications

Cable Assembly

Length*	12 in [304.8 mm]
Diameter	0.156 in [3.96 mm]

Cable

Cable Type	RG178
Impedance	50 Ohms
Inner Conductor Type	Stranded
Inner Conductor Material and Plating	Copper Clad Steel, Silver
Dielectric Type	PTFE
Number of Shields	1
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
Type	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		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 & Plating	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:

*All cable assemblies have a length tolerance of 1.5% or ± 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: **FMCA1459 - xx   uu**

cm = Centimeters
<blank> = Inches

Length

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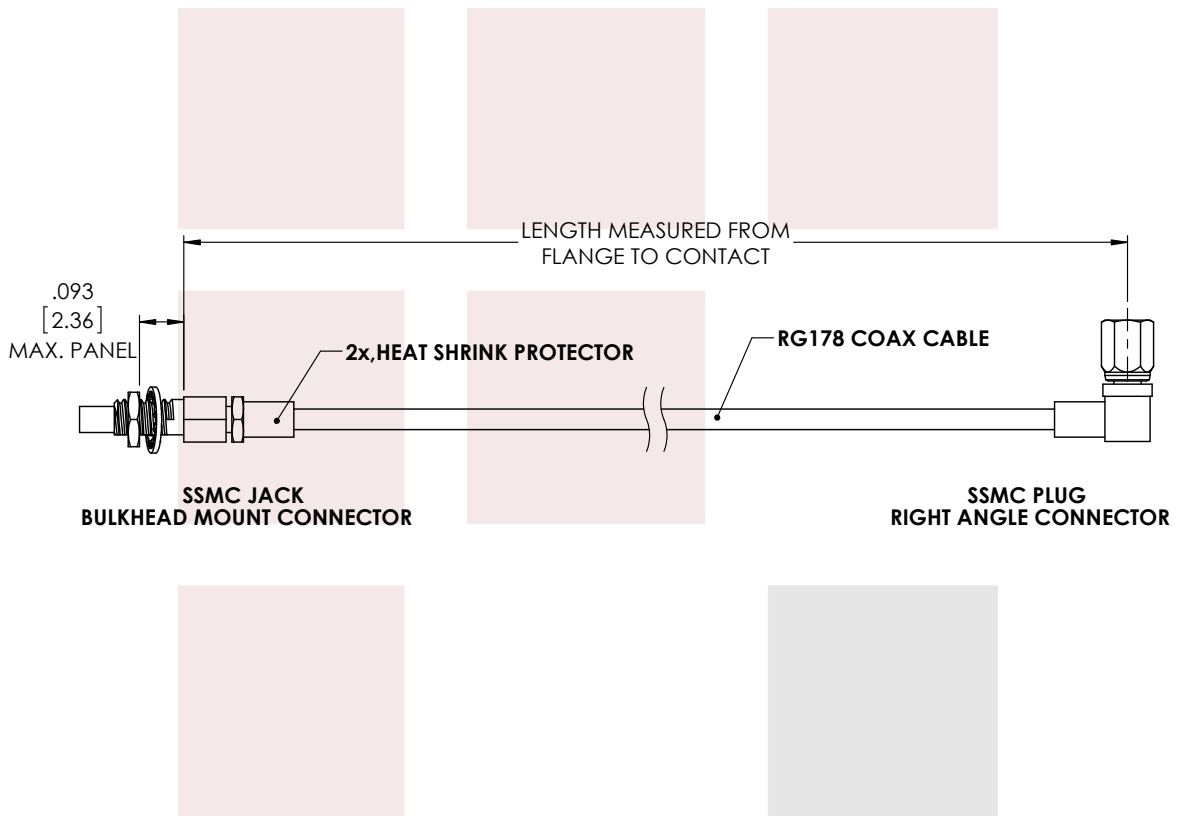FMCA1459-100cm = 100 cm long cable

RA SSMC Plug to SSMC Jack Bulkhead 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 SSMC Jack Bulkhead Cable RG178 Coax in 12 Inch FMCA1459-12

URL: https://www.fairviewmicrowave.com/ra-ssmc-plug-ssmc-jack-cable-rg178-coax-fmca1459-12-p.aspx

LENGTH MEASURED FROM
FLANGE TO CONTACT

.093
[2.36]
MAX. PANEL

2x, HEAT SHRINK PROTECTOR

RG178 COAX CABLE

SSMC JACK
BULKHEAD MOUNT CONNECTOR

SSMC PLUG
RIGHT ANGLE CONNECTOR

STANDARD TOLERANCES
.X   ±0.2
.XX   ±0.01
.XXX ±0.005

*STANDARD TOLERANCES APPLY
ONLY TO DIMENSIONS IN INCHES

FAIRVIEW MICROWAVE INC.
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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].

TITLE	DWG NO		CAGE CODE	
RA SSMC Plug to SSMC Jack Bulkhead Cable RG178 Coax in 12 Inch	FMCA1459			3FKR5
	CAD FILE 11/08/2017	SHEET	SCALE N/A	SIZE A	CN2245