

FMCA1486-48 DATA SHEET

SMA Female to RA SSMC Plug Cable LMR-100 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	Мах	ι	Inits
Frequency Range	DC			5.8		GHz
VSWR				1.6:1		
Velocity of Propagation		e	56			%
RF Shielding	90					dB
Group Delay		1.54	[5.05]		ns/f	t [ns/m]
Capacitance		30.8 [101.05]		pF/ft [pF/m]		
Inductance		0.077	[0.25]		uH/f	t [uH/m]
DC Resistance Inner Cor	ductor	81 [2	65.75]		Ω/100	0ft [Ω/Km]
DC Resistance Outer Cor	nductor	9.5 [31.17]		Ω/100	0ft [Ω/Km]
Jacket Spark				2,000	١	/rms

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.25	0.5	1	2.5	5.8	GHz
Insertion Loss (Typ.)	0.68	0.88	1.16	1.8	2.77	dB

Mechanical Specifications

Cable Assembly Length* Diameter

Cable

Cable Type Impedance Inner Conductor Type Inner Conductor Material and Plating Dielectric Type 48 in [121.92 cm] 0.312 in [7.92 mm]

LMR-100A 50 Ohms Solid Copper Clad Steel PE



Configuration:

- SMA Female
- SSMC Plug Right Angle
- LMR-100A

Features:

- Reliable threaded SSMC cable connection
- Max. Operating Frequency of 5.8 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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Number of Shields Shield Layer 1 Shield Layer 2 Jacket Material Jacket Diameter

One Time Minimum Bend Radius **Repeated Minimum Bend Radius** Bending Moment Flat Plate Crush Tensile Strength

2 Aluminum Tape Tinned Copper Braid PVC, Black 0.11 in [2.79 mm]

0.25 in [6.35 mm] 1 in [25.4 mm] 0.1 lbs-ft [0.14 N-m] 10 lbs/in [0.18 Kg/mm] 15 lbs [6.8 Kg]

Connectors

Description	Connecto	or 1	Connector 2	
Туре	SMA Fem	ale	SSMC Plug	
Specification	MIL-STD-	348		
Impedance	50 Ohm	าร	50 Ohms	
Mating Cycles	100		500	
Contact Material & Plating	Beryllium Copp	ber, G	old Beryllium Copper, Gold	
Contact Plating Spec.	ASTM-B4	88	MIL-G-45204	
Dielectric Type	PTFE		Teflon	
Body Material & Plating	Brass, Nic	:kel	Brass, Gold	
Body Plating Spec.	ASTM-B6	89	MIL-G-45204	
Coupling Nut Material & Pla	iting		Beryllium Copper, Gold	
Coupling Nut Plating Spec.			MIL-G-45204	
Torque			1.75 in-lbs [0.2 Nm]	

Mechanical Specification Notes:

Environmental Specifications

*All cable assemblies have a length tolerance of 1.5% or ± 3/8", whichever is greater.

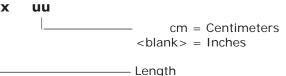
Temperature Operating Range		-40 to +85 deg C					
Compliance Certifications (see product page for current document)							
Plotted and Other Dat Notes:	а						

How to Order

Part Number Configuration:

FMCA1486 - xx





Example: FMCA1486-12 = 12 inches long cable FMCA1486-100cm = 100 cm long cable

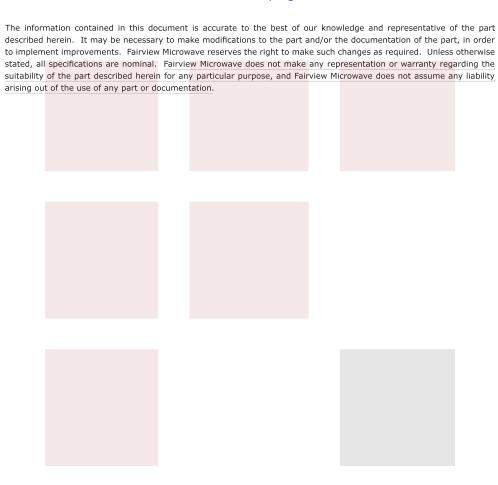




SMA Female to RA SSMC Plug Cable LMR-100 Coax in 48 Inch from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and fiber optic products maintain a 99% availability and are part of the broadest selection in the industry.

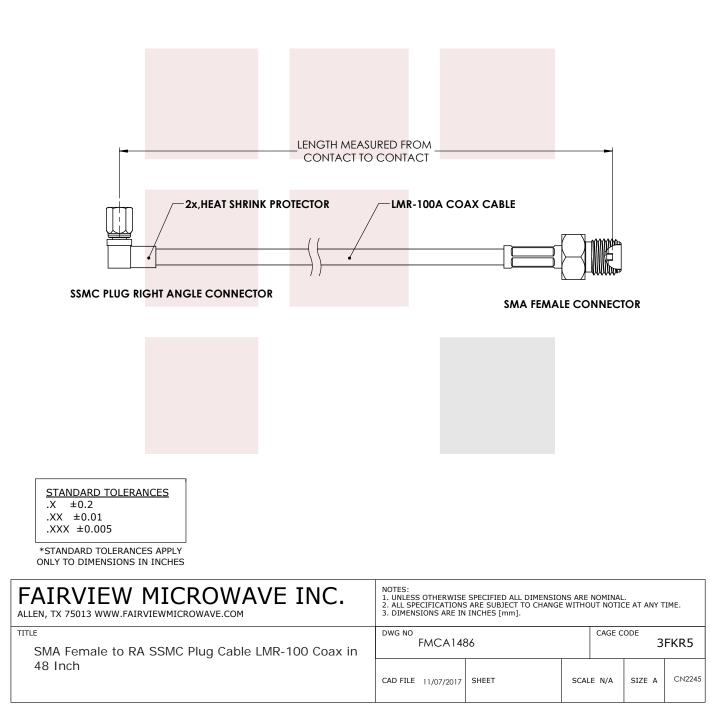
Click the following link to obtain additional part information: SMA Female to RA SSMC Plug Cable LMR-100 Coax in 48 Inch FMCA1486-48

URL: https://www.fairviewmicrowave.com/sma-female-ra-ssmc-plug-cable-Imr100-coax-fmca1486-48-p.aspx









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