

## FMCA1481-24 DATA SHEET

# SMA Male to SSMC Plug Cable LMR-100 Coax in 24 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		Units			
Frequency Range	DC			3		GHz		
VSWR				1.5:1				
Velocity of Propagation		6	66			%		
RF Shielding	90					dB		
Group Delay		1.54 [5.05]			ns/ft [ns/m]			
Capacitance		30.8 [	101.0	5]	pF/ft [pF/m]			
Inductance		0.077	0.077 [0.25]			uH/ft [uH/m]		
DC Resistance Inner Conductor			81 [265.75]			Ω/1000ft [Ω/Km]		
DC Resistance Outer Conductor		9.5 [	31.17]		Ω/100	Oft [Ω/Km]		
Jacket Spark		2,000		Vrms				

### **Performance by Frequency**

Description	F1	F2	F3	F4	F5	Units
Frequency	0.25	0.5	1	2.5	3	GHz
Insertion Loss (Typ.)	0.44	0.54	0.68	1	1.08	dB

## **Mechanical Specifications**

## **Cable Assembly**

Length\* 24 in [609.6 mm]
Diameter 0.315 in [8 mm]

## Cable

Cable Type
Impedance
Inner Conductor Type
Inner Conductor Material and Plating
Dielectric Type

LMR-100A 50 Ohms Solid Copper Clad Steel PE



## **Configuration:**

- SMA Male
- SSMC Plug
- LMR-100A

## **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

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Number of Shields 2

Shield Layer 1 Aluminum Tape
Shield Layer 2 Tinned Copper Braid

Jacket Material PVC, Black

Jacket Diameter 0.11 in [2.79 mm]

One Time Minimum Bend Radius

Repeated Minimum Bend Radius

1 in [25.4 mm]

Bending Moment

O.1 lbs-ft [0.14 N-m]

Flat Plate Crush

10 lbs/in [0.18 Kg/mm]

Tensile Strength 15 lbs [6.8 Kg]

#### **Connectors**

Description	Connect	or 1	Connecto	r 2			
Туре	SMA Ma	ale	SSMC Plu	ıg			
Specification	MIL-STD-	348A					
Impedance	50 Ohr	ns	50 Ohms	S			
Mating Cycles			500				
Contact Material & Plating	Brass, G	old	Beryllium Copper, Gold				
Contact Plating Spec.	30 µin min	imum	MIL-G-45204				
Dielectric Type	PTFE		Teflon				
Body Material & Plating	Brass, Ni	ckel	Beryllium Copper, Gold				
Body Plating Spec.	100 µin mir	nimum	MIL-G-452	MIL-G-45204			
Coupling Nut Material & Pla	iting Brass, Ni	ckel	Beryllium Copper, Gold				
Coupling Nut Plating Spec.	100 µin mir	nimum	MIL-G-452	06			
Hex Size	5/16 in	ch					
Torque	3 in-lbs [0.3	34 Nm	] 1.75 in-lbs [0.	2 Nm	1]		

## Mechanical Specification Notes:

## **Environmental Specifications**

**Temperature** 

Operating Range

-40 to +85 deg C

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

#### **Plotted and Other Data**

Notes:

### **How to Order**

Part Number Configuration:

FMCA1481 - xx uu

| cm = Centimeters |
| chlank > = Inches |
| Length

Example: FMCA1481-12 = 12 inches long cable

FMCA1481-100cm = 100 cm long cable

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





SMA Male to SSMC Plug Cable LMR-100 Coax in 24 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 Male to SSMC Plug Cable LMR-100 Coax in 24 Inch FMCA1481-24

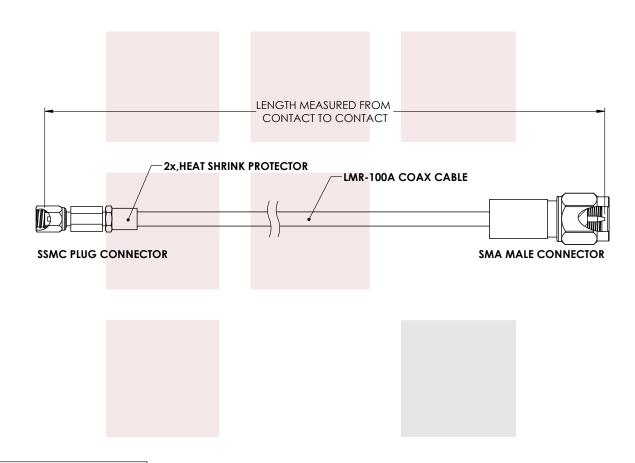
The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order

URL: https://www.fairviewmicrowave.com/sma-male-ssmc-plug-cable-Imr100-coax-fmca1481-24-p.aspx

to implem	ent improveme	nts. Fairview	Microw	ave reserv	es the righ	nt to mak	ke such	changes	as req	uired.	Unless	otherwise
	specifications											
suitability	of the part des	scribed hereir	for any	y particular	purpose,	and Fair	rview N	1icrowave	does	not ass	ume ai	ny liability
arising ou	t of the use of a	any part or do	cument	tation.								







## 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].						
SMA Male to SSMC Plug Cable LMR-100 Coax in 24	DWG NO FMCA1481				CAGE CODE 3FKR5		
Inch	CAD FILE 11/06/2017	SHEET	SCAL	E N/A	SIZE A	CN2245	