

FMCA1485-72 **DATA SHEET**

SMA Female to SSMC Plug Cable LMR-100 Coax in 72 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			5.8		GHz	
VSWR				1.5:1			
Velocity of Propagation		6	66			%	
RF Shielding	90					dB	
Group Delay		1.54	4 [5.05] r		ns/f	ns/ft [ns/m]	
Capacitance		30.8 [101.05]			pF/ft [pF/m]		
Inductance		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/1000ft [Ω/Km]		
Jacket Spark				2,000	\	/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.)	0.92	1.22	1.64	2.59	4.05	dB

Mechanical Specifications

Cable Assembly

Length* 72 in [182.88 cm] Diameter 0.312 in [7.92 mm]

Cable

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

LMR-100A 50 Ohms Solid

Copper Clad Steel PΕ



Configuration:

- SMA Female
- SSMC Plug
- LMR-100A

Features:

- Reliable threaded SSMC cable connection
- Max. Operating Frequency of 5.8
- · 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 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	Connector	1	Connector 2			
Туре	SMA Female	9	SSMC Plug			
Specification	MIL-STD-34	8				
Impedance	50 Ohms		50 Ohms			
Mating Cycles	100		500			
Contact Material & Plating	Beryllium Copper,	d Beryllium Copper, Gold				
Contact Plating Spec.	ASTM-B488		MIL-G-45204			
Dielectric Type	PTFE		Teflon			
Body Material & Plating	Brass, Nicke	ı	Beryllium Copper,			
Body Plating Spec.	ASTM-B689		MIL-G-45204			
Coupling Nut Material & Pla	ating		Beryllium Copper, G	iold		
Coupling Nut Plating Spec.			MIL-G-45206			
Torque			1.75 in-lbs [0.2 Nm			
-						

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:

FMCA1485 - xx uu

| cm = Centimeters |
| chlark > = Inches |
| Length

Example: FMCA1485-12 = 12 inches long cable

FMCA1485-100cm = 100 cm long cable

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





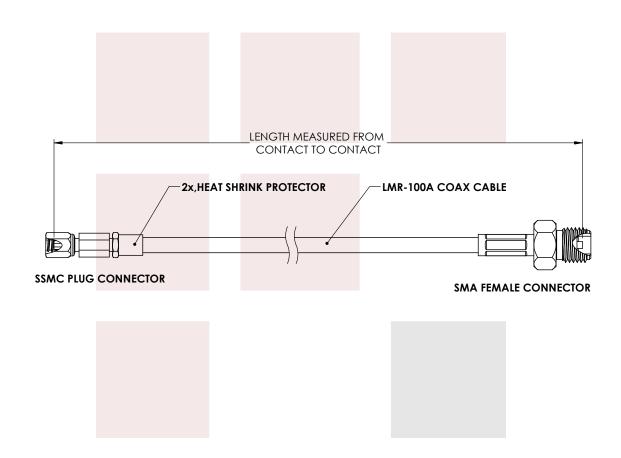
SMA Female to SSMC Plug Cable LMR-100 Coax in 72 Inch from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and fiber optic products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link to obtain additional part information: SMA Female to SSMC Plug Cable LMR-100 Coax in 72 Inch FMCA1485-72

URL: https://www.fairviewmicrowave.com/sma-female-ssmc-plug-cable-Imr100-coax-fmca1485-72-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].					
SMA Female to SSMC Plug Cable LMR-100 Coax in 72	DWG NO FMCA1485			CAGE CODE 3FKR5		
Inch	CAD FILE 11/06/2017	SHEET	SCALE N/A		SIZE A	CN2245