

SSMC Plug to SSMC Plug Low Loss Cable 48 Inch Length Using LMR-100 Coax



ET32830

RF Cable Assemblies Technical Data Sheet

Configuration

- Connector 1: SSMC Plug
- Connector 2: SSMC Plug
- Cable Type: LMR-100A

Features

- SSMC Cable Assembly Max. Operating Frequency of 5800 GHz
- Small SSMC cable connection form factor (50% smaller than SMA, radially)
- Reliable threaded coupling
- · In stock and ready to ship

Applications

- SSMC Cable General Purpose Test
- Data Acquisition Systems
- A/D Conversion Systems
- Ultra Wideband Digital Receivers
- Software defined radio (SDR)

Description

Pasternack's SSMC cable assemblies are part of our full line of RF components available for same-day shipping. These SSMC cable assemblies are designed to connect SSMC system components and test connections, delivering signal frequencies as high as 12.4 GHz. Our family of SSMC cables can also be used to connect SSMC ports on data acquisition systems, A/D modules or SSMC coax patch panels. If none of our standard options fit your application, you can specify your own custom SSMC cable assembly using Pasternack's online Cable Creator.

Our SSMC cable assembly datasheet specifications and drawing with dimensions are shown below in this PDF. Pasternack's broad catalog of RF, microwave and millimeter wave cable assemblies allow designers to configure and customize their signal connections however they like. Whether the need is to provide SSMC cabling for a data acquisition system, or simply create a custom cable assembly configuration, Pasternack has the right cable assemblies for the job. Pasternack can also expertly build your custom cable assemblies for you and ship same day.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		5.8	GHz
VSWR			1.5:1	
Velocity of Propagation		66		%
RF Shielding	90			dB
Group Delay		1.54 [5.05]		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]

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Description	F1	F2	F3	F4	F5	Un
Frequency	0.25	0.5	1	2.5	5.8	GF
Insertion Loss (Typ.)	0.68	0.88	1.16	1.8	2.77	d
echanical Specification	าร			X	-	
Cable Assembly						
Length* Diameter				3 in [121.92 ci 156 in [3.96 r		
Diameter			0.	100 11 [0.00 1		
Cable			6			
Cable Type				/R-100A		
Impedance) Ohms		
Inner Conductor Type			So	blid		
Inner Conductor Materia	l and Plating			opper Clad St	eel	
Dielectric Type			PE	Ē		
Number of Shields			2			
Shield Layer 1				uminum Tape		
				nned Copper /C, Black	Braid	
Shield Layer 2				U. Black		
Jacket Material					m1	
				11 in [2.79 m	m]	
Jacket Material Jacket Diameter	d Radius		0.	11 in [2.79 m	-	
Jacket Material Jacket Diameter One Time Minimum Ben			0. 0.:	11 in [2.79 m 25 in [6.35 m	-	
Jacket Material Jacket Diameter One Time Minimum Ben Repeated Minimum Ben			0. 0.: 1	11 in [2.79 m 25 in [6.35 m in [25.4 mm]	n]	
Jacket Material Jacket Diameter One Time Minimum Ben			0. 0. 1 0.	11 in [2.79 m 25 in [6.35 m	m] N-m]	

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ERNAC

Connectors

Description	Connector 1	Connector 2 SSMC Plug	
Туре	SSMC Plug		
Impedance	50 Ohms	50 Ohms	
Mating Cycles	500	500	
Contact Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold	
Contact Plating Specification	MIL-G-45204	MIL-G-45204	
Dielectric Type	Teflon	Teflon	
Body Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold	
Body Plating Specification	MIL-G-45204	MIL-G-45204	
Coupling Nut Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold	
Coupling Nut Plating Specification	MIL-G-45206	MIL-G-45206	
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 $\pm 3/8$ ", whichever is greater.

Environmental Specifications Temperature Operating Range

-40 to +85 deg C

ET32830 CAD Drawing SSMC Plug to SSMC Plug Low Loss Cable 48 Inch Length Using LMR-100 Coax

