

# SSMC Plug to SSMC Plug Low Loss Cable 18 Inch Length Using LMR-100 Coax



#### RF Cable Assemblies Technical Data Sheet

ET32827

### Configuration

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

#### **Features**

- SSMC Cable Assembly Max. Operating Frequency of 5.8 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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©2022 Ebeestock All Rights Reserved						Units		
Frequency	0.25	0.5	1	2.5	5.8	GHz		
Insertion Loss (Typ.)	0.38	0.46	0.56	0.8	1.17	dB		

#### **Mechanical Specifications**

#### **Cable Assembly**

Length\* Diameter

#### Cable

Cable Type Impedance

Inner Conductor Type

Inner Conductor Material and Plating

Dielectric Type 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 18 in [457.2 mm] 0.156 in [3.96 mm]

LMR-100A 50 Ohms Solid

Copper Clad Steel

PE 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]



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#### **Connectors**

Description	Connector 1	Connector 2	
Туре	SSMC Plug	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:

# **Environmental Specifications**

**Temperature** 

Operating Range

-40 to +85 deg C

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

