

SSMC Plug to SSMC Plug Low Loss Cable 6 Inch Length Using LMR-100 Coax



ET32825

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 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

Ebeestock'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 frequen-cies 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 cus-tom SSMC cable assembly using Ebeestock's online Cable Creator.

Our SSMC cable assembly datasheet specifications and drawing with dimensions are shown below in this PDF. Ebeestock'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, Ebeestock has the right cable assemblies for the job. Ebeestock can also expertly build custom cable assemblies for you and arrange fast shipping.

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]

8th Floor, Building 1, Yongfu Science and Technology Center Industrial Park, Nanzha District 5, Humen,523900,Dongguan, Guangdong, China Website: www.ebeestock.com Email: sales@ebeestock.com



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Description	F1	F2	F3	F4	F5	Unit	
Frequency	0.25	0.5	1	2.5	5.8	GHz	
Insertion Loss (Typ.)	0.26	0.29	0.32	0.4	0.53	dB	
				<u> </u>			
chanical Specification	ns						
Cable Assembly							
Length*	•			6 in [152.4 mm]			
Diameter			0.	156 in [3.96 r	nm]		
Cable							
Cable Type				MR-100A			
Impedance				Ohms			
Inner Conductor Type	Level Disting		-	olid	!		
Inner Conductor Materia	i and Plating		P	opper Clad St	eel		
Dielectric Type Number of Shields			2				
Shield Layer 1			_	luminum Tape			
Shield Layer 2				nned Copper			
Jacket Material				VC, Black	Diala		
Jacket Diameter				11 in [2.79 m	m]		
				-	-		
Dne Time Minimu <mark>m Bend Radius</mark>			0.25 in [6.35 mm]				
Repeated Minimum Ben	epeated Minimum Bend Radius		1 in [25.4 mm]				
			0	1 lbs-ft [0.14	N-ml		
Bending Moment							
			10) lbs/in [0.18 l 5 lbs [6.8 Kg]			

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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

Compliance Certifications (see product page for current document)

Plotted and Other Data

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: SSMC Plug to SSMC Plug Low Loss Cable 6 Inch Length Using LMR-100 Coax PE3C4419-6

ET32825 CAD Drawing SSMC Plug to SSMC Plug Low Loss Cable 6 Inch Length Using LMR-100 Coax

