

SSMC Plug to SSMC Plug Cable 12 Inch Length Using RG178 Coax



RF Cable Assemblies Technical Data Sheet

ET32754

Configuration

Connector 1: SSMC PlugConnector 2: SSMC PlugCable Type: RG178

Features

- SSMC Cable Assembly Max. Operating Frequency of 3 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		3	GHz
VSWR			1.44:1	
Velocity of Propagation		70		%
Capacitance		29.4 [96.46]		pF/ft [pF/m]
Operating Voltage (AC)			250	Vrms

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Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.1	0.4	1	3		GHz
Insertion Loss (Max.)	0.34	0.48	0.65	0.99		dB
Insertion Loss (Typ.)	0.34	0.48	0.65	0.99		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 Jacket Material Jacket Diameter

Repeated Minimum Bend Radius

12 in [304.8 mm] 0.156 in [3.96 mm]

RG178 50 Ohms Stranded

Copper Clad Steel, Silver

PTFE 1

Silver Plated Copper Braid

FEP, Tan

0.072 in [1.83 mm]

0.4 in [10.16 mm]

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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-45205	MIL-G-45205	
Torque	1.75 in-lbs [0.2 Nm]	1.75 in-lbs [0.2 Nm]	

Mechanical Specification Notes:

Environmental Specifications

Temperature

Operating Range

-55 to +165 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

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

