

SSMC Plug to SSMC Jack Bulkhead Cable 24 Inch Length Using RG178 Coax



ET32764

# **RF Cable Assemblies Technical Data Sheet**

# Configuration

- Connector 1: SSMC Plug
- Connector 2: SSMC Jack Bulkhead
- Cable 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 F1** F2 F3 F4 F5 Units Description 0.1 0.4 1 3 GHz Frequency Insertion Loss (Typ.) 0.48 0.76 1.09 1.77 dB **Mechanical Specifications Cable Assembly** 24 in [609.6 mm] Length\* 0.156 in [3.96 mm] Diameter Cable **RG178** Cable Type 50 Ohms Impedance Inner Conductor Type Stranded Inner Conductor Material and Plating Copper Clad Steel, Silver **Dielectric Type** PTFE Number of Shields 1 Shield Laver 1 Silver Plated Copper Braid Jacket Material FEP. Tan Jacket Diameter 0.072 in [1.83 mm] Repeated Minimum Bend Radius 0.4 in [10.16 mm]

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# POTERNACK

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## Connectors

Description	Connector 1	Connector 2	
Туре	SSMC Plug	SSMC Jack Bulkhead	
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	
Outer Conductor Material and Plating		Beryllium Copper, Gold	
Outer Conductor Plating Specification		MIL-G-45204	
Body Material and Plating	Beryllium Copper, Gold	er, Gold Beryllium Copper, Gold	
Body Plating Specification	MIL-G-45204 MIL-G-45204		
Coupling Nut Material and Plating	Beryllium Copper, Gold		
Coupling Nut Plating Specification	MIL-G-45205		
Torque	1.7 <mark>5 in-l</mark> bs [0.2 Nm]	1.75 in-lbs [0.2 Nm]	

Mechanical Specification Notes:

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

## **Environmental Specifications**

Temperature Operating Range

-55 to +165 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

ET32764 CAD Drawing SSMC Plug to SSMC Jack Bulkhead Cable 24 Inch Length Using RG178 Coax

