



## RF Cable Assemblies Technical Data Sheet

ET28671

# Configuration

Connector 1: N Male

• Connector 2: SSMC Jack Bulkhead

Cable Type: ET-RG178

#### Features

- SSMC Cable Assembly Max. Operating Frequency of 2 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 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 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 your custom cable assemblies for you and ship same day.

### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		2	GHz
VSWR			1.5:1	
Velocity of Propagation		70		%
Capacitance		29.4 [96.46]		pF/ft [pF/m]
Operating Voltage (AC)			250	Vrms

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: N Male to SSMC Jack Bulkhead Cable 48 Inch Length Using ET-RG178 Coax ET28671





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### Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	100	400	1,000			MHz
Insertion Loss (Typ.)	0.76	1.32	1.98			dB

### Mechanical Specifications

### Cable Assembly

 Length\*
 48 in [121.92 cm]

 Diameter
 0.8 in [20.32 mm]

#### Cable

Cable Type
Impedance
Inner Conductor Type

ET-RG178
50 Ohms
Stranded

Inner Conductor Material and Plating Copper Clad Steel, Silver

Dielectric Type
Number of Shields
1

Shield Layer 1
Silver Plated Copper Braid
FEP, Tan

Jacket Diameter 0.072 in [1.83 mm]

Repeated Minimum Bend Radius 0.4 in [10.16 mm]

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#### Connectors

Description	Connector 1	Connector 2
Type	N Male	SSMC Jack Bulkhead
Specification	MIL-STD-348	
Impedance	50 Ohms	50 Ohms
Mating Cycles		500
Contact Material and Plating	Brass, Gold	Beryllium Copper, Gold
Contact Plating Specification	ASTM-B488	MIL-G-45204
Dielectric Type	PTFE	Teflon
Outer Conductor Material and Plating		Beryllium Copper, Gold
Outer Conductor Plating Specification		MIL-G-45204
Body Material and Plating	Brass, Nickel	Beryllium Copper, Gold
Body Plating Specification	ASTM-B689	MIL-G-45204
Coupling Nut Material and Plating	Brass, Nickel	
Coupling Nut Plating Specification	ASTM-B689	
Torque		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

Notes:

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





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#### How to Order

Part Number Configuration:

ET3C4400
- xx uu

Unit of Measure:

cm = Centimeters

<br/>
<br/>
<br/>
<br/>
chlank> = Inches

Base Number

Example: ET3C4400-12 = 12 inches long cable

ET3C4400-100cm = 100 cm long cable

N Male to SSMC Jack Bulkhead Cable 48 Inch Length Using ET-RG178 Coax from Ebeestock Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: N Male to SSMC Jack Bulkhead Cable 48 Inch Length Using ET-RG178 Coax ET28671

**URL:** https://www.ebeestock.com/n-male-to-ssmc-jack-bulkhead-cable-6-inch-length-using-rg178-coax-0028666

The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Ebeestock reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Ebeestock does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Ebeestock does not assume any liability arising out of the use of any part or documentation.

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