



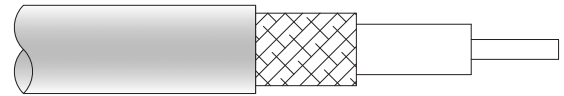
# SSMC Plug to SSMC Jack Bulkhead Cable 12 Inch Length Using Coax

## RF Cable Assemblies Technical Data Sheet

PE3C4442-12

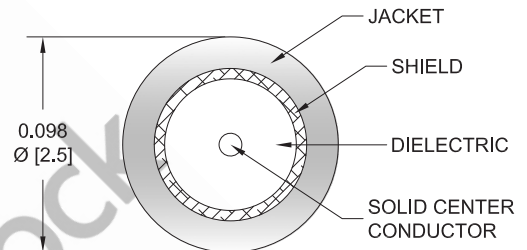
### Configuration

- Connector 1: SSMC Plug
- Connector 2: SSMC Jack Bulkhead



### Features

- SSMC Cable Assembly Max. Operating Frequency of 12.4 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 custom cable assemblies for you and arrange fast shipping.

### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		12.4	GHz
VSWR			1.4:1	
Velocity of Propagation		69.5		%
RF Shielding	100			dB
Group Delay		1.43 [4.69]		ns/ft [ns/m]
Capacitance		29 [95.14]		pF/ft [pF/m]
DC Resistance Inner Conductor		65.7 [215.55]		Ω/1000ft [Ω/Km]
DC Resistance Outer Conductor		10.2 [33.46]		Ω/1000ft [Ω/Km]



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Operating Voltage (AC) 250 Vrms

#### Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.5	1	5	10	12.4	GHz
Insertion Loss (Max.)	0.35	0.43	0.75	1.02	1.11	dB

#### Mechanical Specifications

##### Cable Assembly

Length\* 12 in [304.8 mm]  
Diameter 0.156 in [3.96 mm]

##### Cable

Cable Type 50 Ohms  
Impedance Solid  
Inner Conductor Type Copper Clad Steel, Silver  
Inner Conductor Material and Plating PTFE  
Dielectric Type 1  
Number of Shields Tinned Copper Composite Braid  
Outer Conductor Material and Plating FEP, Black  
Jacket Material 0.105 in [2.67 mm]  
Jacket Diameter  
  
One Time Minimum Bend Radius 0.5 in [12.7 mm]  
Repeated Minimum Bend Radius 0.787 in [19.99 mm]



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#### Connectors

Description	Connector 1	Connector 2
Type	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	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-45204	
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 -55 to +125 deg C

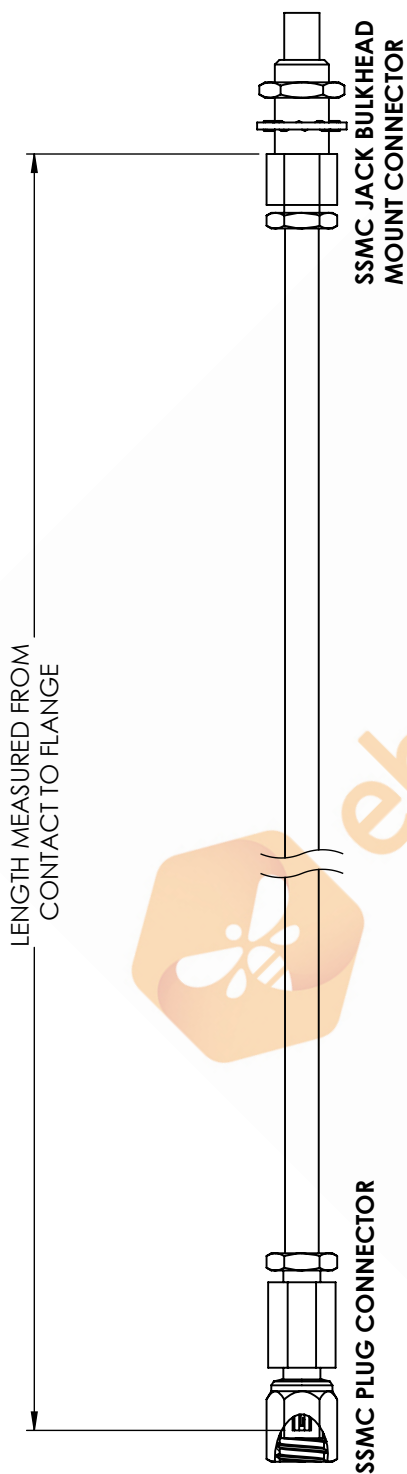
#### Compliance Certifications (see [product page](#) for current document)

#### Plotted and Other Data

Notes:

# ET32882 CAD Drawing

SSMC Plug to SSMC Jack Bulkhead Cable 12 Inch Length Using Coax



SSMC PLUG CONNECTOR


SSMC JACK BULKHEAD MOUNT CONNECTOR

LENGTH MEASURED FROM CONTACT TO FLANGE

STANDARD TOLERANCES

- .X ±0.2
- .XX ±0.01
- .XXX ±0.005

\*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES



**ebeeestock**  
 8TH FLOOR, BUILDING 1,  
 YONGFU SCIENCE AND TECHNOLOGY  
 CENTER INDUSTRIAL PARK, NANZHA DISTRICT  
 S. HUMEN, 523900, DONGGUAN, GUANGDONG, CHINA  
 WEBSITE: [www.ebeeestock.com](http://www.ebeeestock.com)  
 EMAIL: [sales@ebeeestock.com](mailto:sales@ebeeestock.com)

DWG TITLE

ET32882

CAGE CODE 53919

CAD FILE 09/07/17

SCALE N/A

SIZE A

CN2245

NOTES:  
 1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.  
 2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME  
 3. DIMENSIONS ARE IN INCHES [mm].