SSMC Plug to SSMC Jack Bulkhead Cable 60 Inch Length Using RG178 Coax

RF Cable Assemblies Technical Data Sheet ET32767

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

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

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

RF Cable Assemblies Technical Data Sheet ET32767

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.1	0.4	1	3		GHz
Insertion Loss (Typ.)	0.9	1.59	2.43	4.12		dB

Mechanical Specifications

Cable Assembly

Length*	60 in [152.4 cm]
Diameter	0.156 in [3.96 mm]

Cable

Cable Type	RG178
Impedance	50 Ohms
Inner Conductor Type	Stranded
Inner Conductor Material and Plating	Copper Clad Steel, Silver
Dielectric Type	PTFE
Number of Shields	1
Shield Layer 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]

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

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

RF Cable Assemblies Technical Data Sheet ET32767

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-45205	
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 ± 3/8”, whichever is greater.

Environmental Specifications

Temperature

Operating Range -55 to +165 deg C

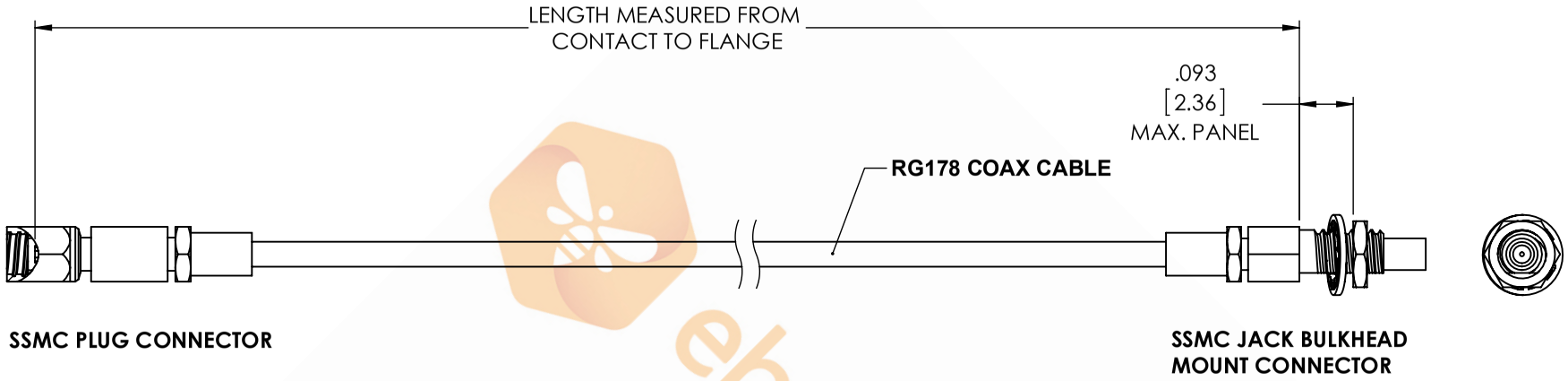
Compliance Certifications (see product page for current document)

Plotted and Other Data

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

ET32767 CAD Drawing

SSMC Plug to SSMC Jack Bulkhead Cable 60 Inch Length Using RG178 Coax



STANDARD TOLERANCES

.X	±0.2
.XX	±0.01
.XXX	±0.005

*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

ebeestock

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

DWG TITLE

ET32767

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].

CAGE CODE 53919	CAD FILE 08/31/17	SCALE N/A	SIZE A	CN2245