

**SMA (M) to SMA (M) Coaxial Cable, Flexible, 12"**

**SCW-SMSM012-F2** is a 12" long, flexible, coaxial cable with SMA male connectors that cover the frequency range of DC to 26.5 GHz. The coaxial cable utilizes the highest quality test instrumentation grade cable and a precision manufacturing process to guarantee superior microwave performance and mechanical durability. The impedance of the cable is 50 ohms. Other lengths are offered under different models.

**Electrical Specifications:**

Parameter	Minimum	Typical	Maximum
Frequency Range	DC		26.5 GHz
Insertion Loss @ 3 GHz		< 0.2 dB	
Insertion Loss @ 6 GHz		< 0.3 dB	
Insertion Loss @ 12 GHz		< 0.4 dB	
Insertion Loss @ 18 GHz		< 0.5 dB	
Insertion Loss @ 26.5 GHz		< 0.7 dB	
Return Loss @ 26.5 GHz		19 dB	
Impedance		50 $\Omega$	
Breakdown Voltage			1000 Volts
Radiation Shielding	90 dB	100 dB	
Power Handling @ 26.5 GHz			105 W (CW)
Specification Temperature		+25 °C	
Operating Temperature	-40 °C		+85 °C

**Mechanical Specifications:**

Item	Specification
Connectors	SMA Male
Connector Contact Material	Be-Cu / Gold Plating per MIL-G-45204
Connector Material	Passivated Stainless Steel
Connector Dielectric	PEEK/PEI
Cable Dielectric	ePTFE
Cable Jacket Material	PFA
Cable Outer Diameter	0.190"
Length	12"
Minimum Bending Radius	1"
Weight	0.8 Oz
Outline	CW-SS-F10

**ECCN**

EAR99

**FEATURES**

- High Return Loss
- Low Insertion Loss
- Flexible and Durable

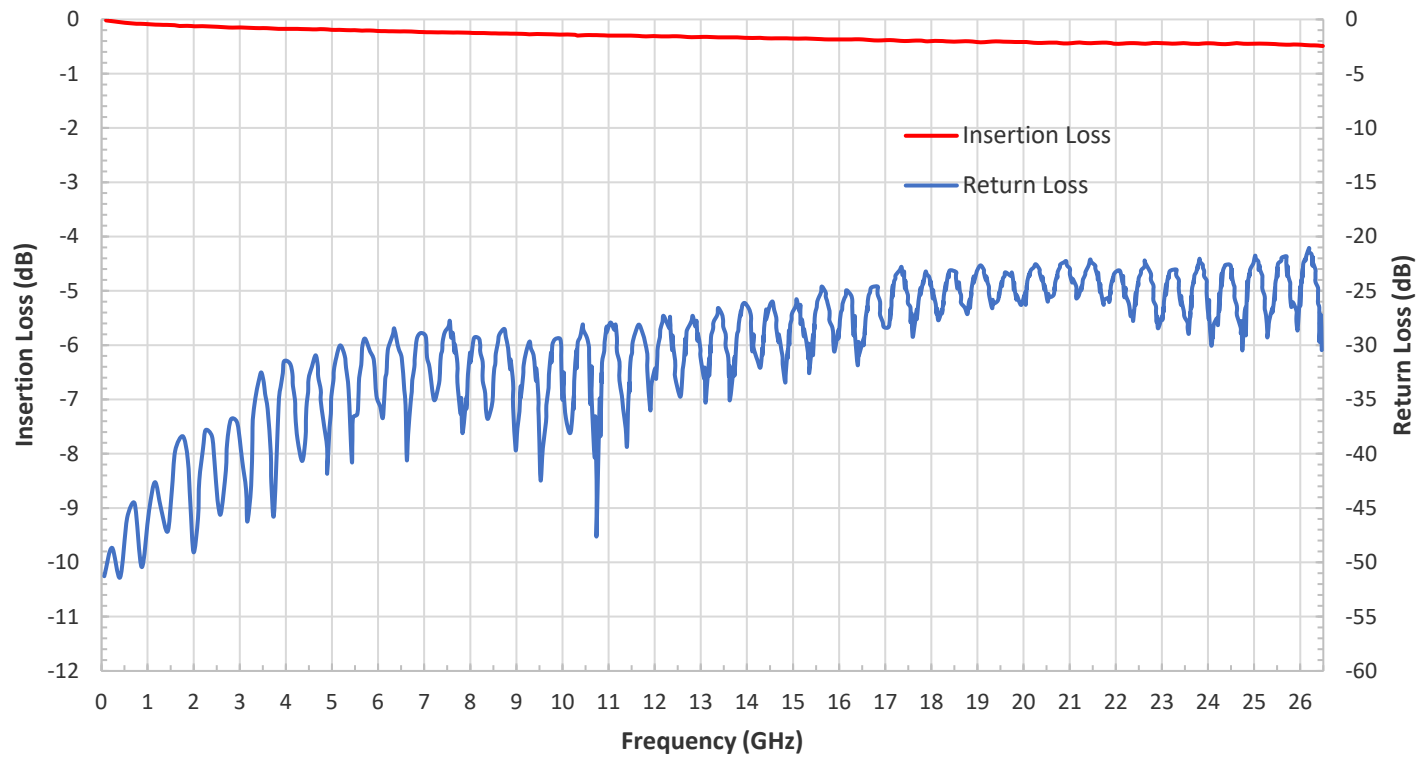
**APPLICATIONS**

- Test Lab
- Sub-assemblies

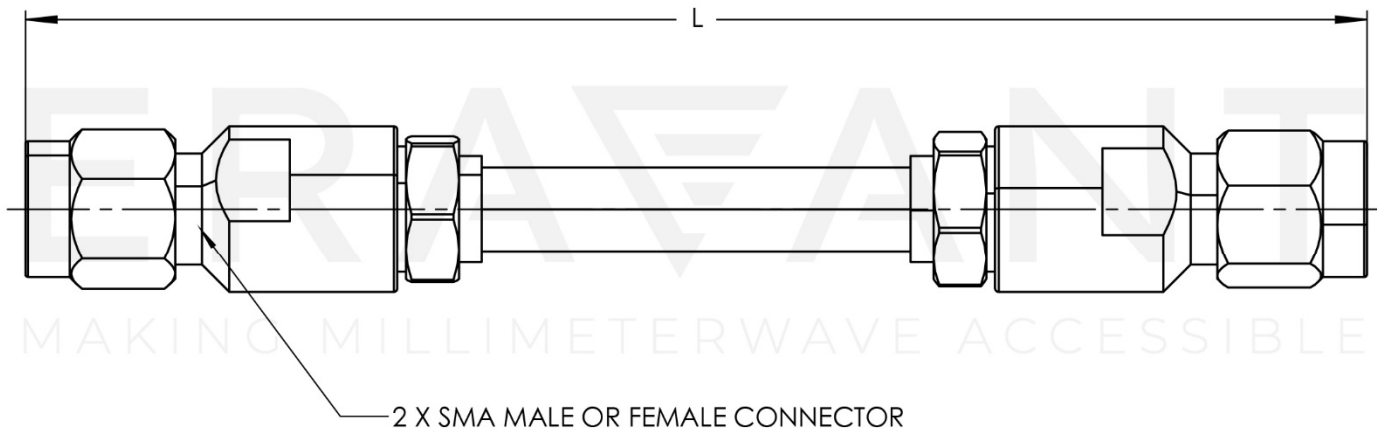
**SUPPLEMENTAL DETAILS**

SCW-SMSM012-F2

Typical Performance vs. Frequency



**Mechanical Outline:** (Unless otherwise specified, all dimensions are in inches [millimeters])



**NOTE:**

LENGTH "L" IS CUSTOMIZABLE

**NOTE:**

- Length “L” can be customizable.
- All data presented is collected from a sample lot. Actual data may vary slightly from unit to unit.
- All testing is performed under +25 °C case temperature.
- Eravant reserves the right to change the information presented without notice.

**CAUTION:**

- Bending the cable sharply will either cause damage or degrade the performance of the cable.
- Proper torque should be applied:  $8.0 \pm 0.15$  inch-pounds ( $0.90 \pm 0.02$  Nm). Torque wrench model SCH-08008-S1 is highly recommended.

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