SCW-SMSM120-F2

SMA (M) to SMA (M) Coaxial Cable, Flexible, Lab Grade, 120”

SCW-SMSM120-F2 is a 120” long, flexible, lab grade coaxial cable with SMA male connectors that cover the frequency range of DC to 26.5 GHz. The coaxial cable utilizes high performance material and a prcision 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		18 GHz
Insertion Loss @ 3 GHz		< 1.5 dB	
Insertion Loss @ 6 GHz		< 2.1 dB	
Insertion Loss @ 9 GHz		< 2.5 dB	
Insertion Loss @ 18 GHz		< 3.5 dB	
Return Loss @ 18 GHz		20 dB	
Impedance		50 Ω	
Breakdown Voltage			1000 Volts
Radiation Shielding		90 dB	
Power Handling @ 18 GHz			105 W (CW)
Specification Temperature		+25 °C	
Operating Temperature	-40 °C		+85 °C

Mechanical Specifications:

Item	Specification
Connectors	SMA Male
Connector Contact Material/Plating	Brass/Gold Plating Per MIL-G-45204
Connector Material	Passivated Stainless Steel
Connector Dielectric	ePTFE
Cable Jacket Material	PFA
Cable Outer Diameter	0.190”
Length	120”
Minimum Bending Radius	1”
Weight	1.6 Oz
Outline	CW-SS-F10

ECCN

EAR99

FEATURES

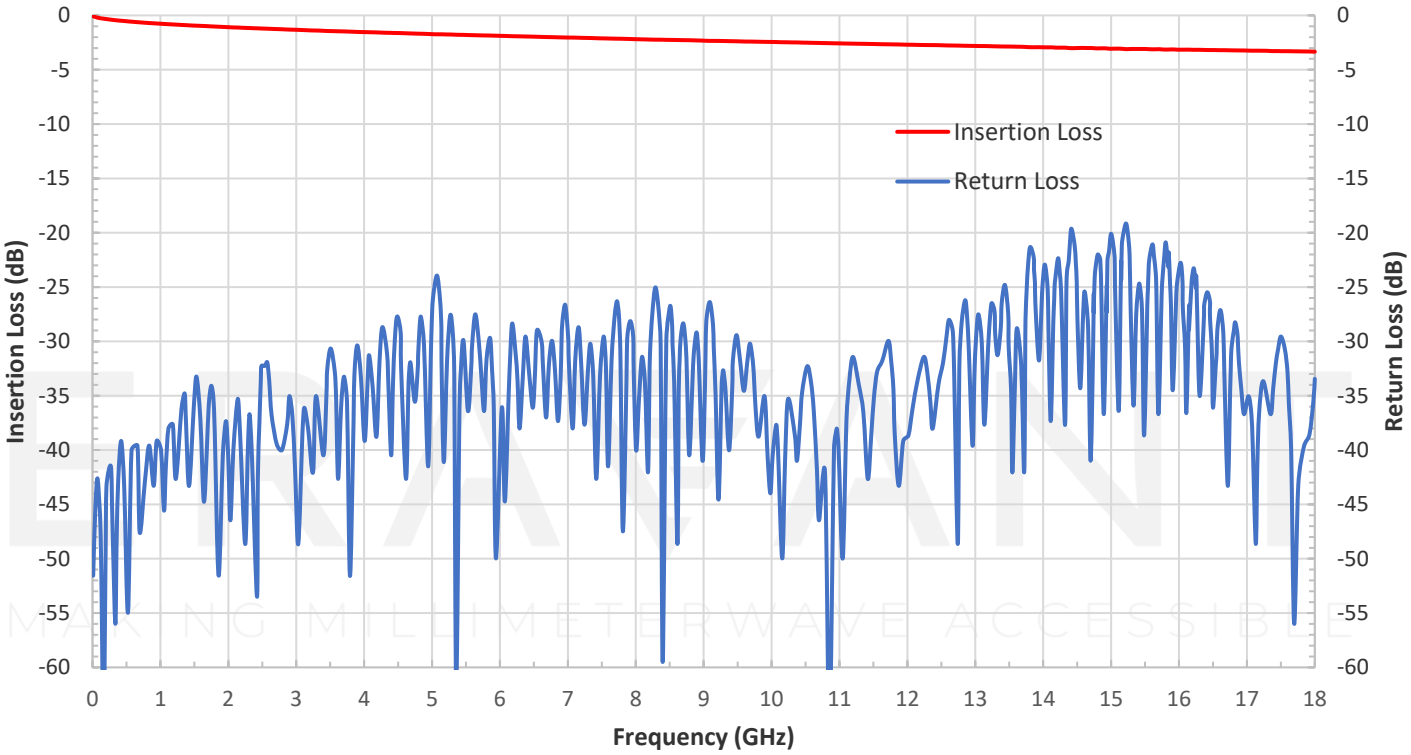
- High Return Loss
- Low Insertion Loss
- Flexible and Durable

APPLICATIONS

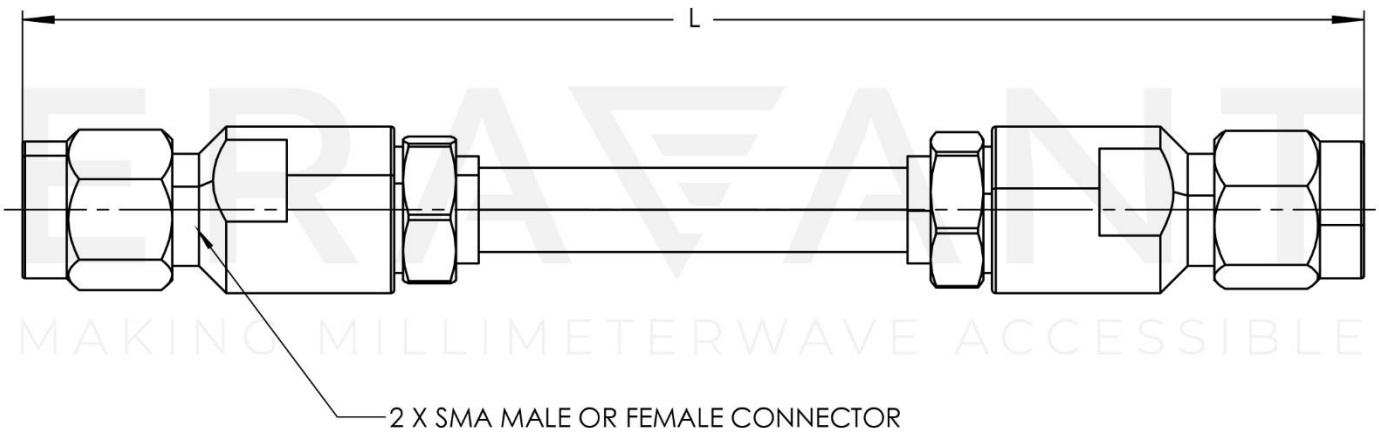
- Test Lab
- Sub-assemblies

SUPPLEMENTAL DETAILS

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 ± 0.15 inch-pounds (0.90 ± 0.02 Nm). Torque wrench model SCH-08008-S1 is highly recommended.

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