SCW-SMSM012-M1

SMA (M) to SMA (M) Coaxial Cable, Super Bendable, 12”

SCW-SMSM012-M1 is a 12” long, Super Bendable coaxial cable with SMA male connectors that covers the frequency range of DC to 26.5 GHz. The coaxial cable, which is hand formable with good bendability, can be bent from the root of the connectors. It utilizes high performance material 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		< 0.4 dB	
Insertion Loss @ 6 GHz		< 0.6 dB	
Insertion Loss @ 12 GHz		< 0.8 dB	
Insertion Loss @ 18 GHz		< 1.0 dB	
Insertion Loss @ 26.5 GHz		< 1.5 dB	
Return Loss @ 26.5 GHz		18 dB	
Impedance		50 Ω	
Breakdown Voltage			500 V
Radiation Shielding		90 dB	
Velocity Factor		76%	
Power Handling @ 26.5 GHz			18 W (CW)
Specification Temperature		+25 °C	
Operating Temperature	-40 °C		+85 °C

ECCN

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FEATURES

- High Return Loss
- Low Insertion Loss
- Hand-Formable
- Good Bendability
- Bendable from the Root of Connectors

APPLICATIONS

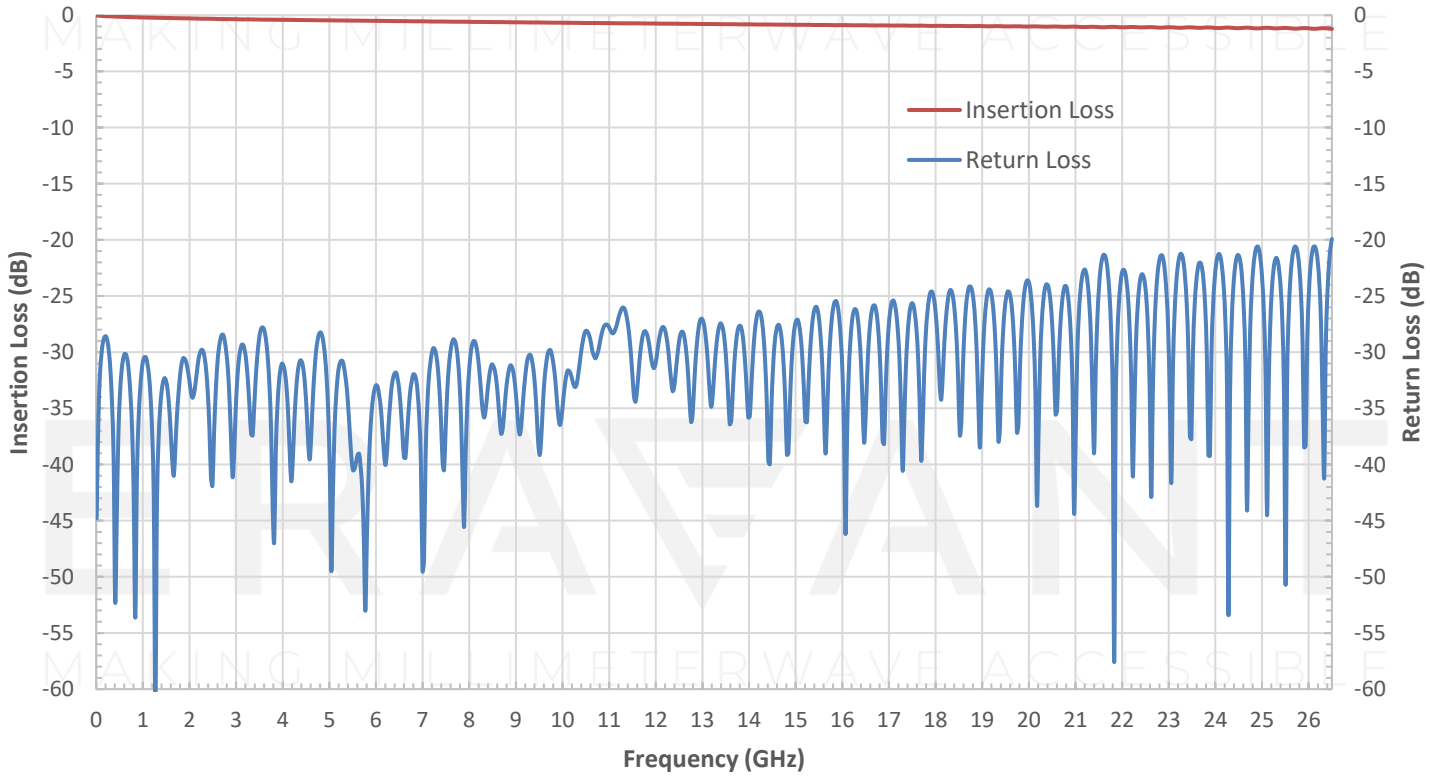
- Test Lab
- Sub-Assemblies
- System Integration

SUPPLEMENTAL DETAILS

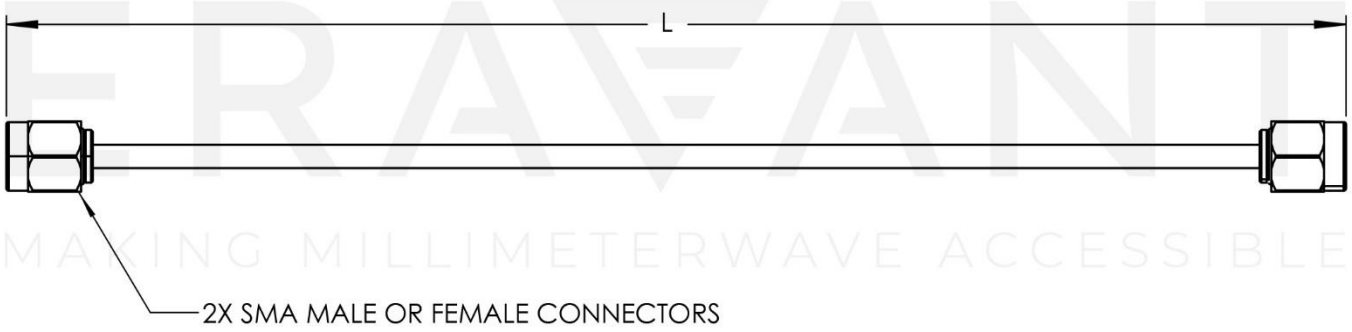
Mechanical Specifications:

Item	Specification
Connectors	SMA Male
Connector Contact Material	Beryllium Copper, Gold Plated
Connector Material	Passivated Stainless Steel
Connector Dielectric	PEI
Cable Dielectric	PTFE
Cable Jacket	FEP
Minimum Bending Radius	0.417”
Cable Outer Diameter	0.104”
Length	12”
Outline	CW-SS-M8

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.