

SMA (M) to SMA (M) Coaxial Cable, Flexible, Lab Grade, 48", Phase Matched

Description:

Model SCW-SMSM048-F1-PM is a 48" long, flexible, phase matched 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 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.

Features:

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

Applications:

- Test Lab
- Sub-assemblies

Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency	DC		26.5 GHz
Insertion Loss @ 3 GHz		< 0.8 dB	
Insertion Loss @ 6 GHz		< 1.2 dB	
Insertion Loss @ 12 GHz		< 1.6 dB	
Insertion Loss @ 18 GHz		< 1.9 dB	
Insertion Loss @ 26.5 GHz		< 2.4 dB	
Return Loss @ 26.5 GHz		20 dB	
Impedance		50 Ω	
Phase Match (Unit to Unit)		±10 °	
Breakdown Voltage	_ <i>JI II</i> \		1000 Volts
Radiation Shielding		90 dB	1+2
Power Handling @ 26.5 GHz	V 20 1 1 1 1 1		105 W (CW)
Specification Temperature	VIIIII	+25 °C	nr:
Operating Temperature	-40 °C	0 6 0 1 7 1	+85 °C

Mechanical Specifications:

Item	Specification	
Connectors	SMA Male	
Connector Contact Material/Plating	Brass/Gold Plating Per MIL-G-45204	
Connector / Cable Insulation Layer Material	Passivated Stainless Steel / PTFE	
Cable Jacket Material	FEP	
Cable Outer Diameter	0.181"	
Length	48"	
Minimum Bending Radius	0.79"	
Weight	1.0 Oz	
Outline	CW-SS-F8	

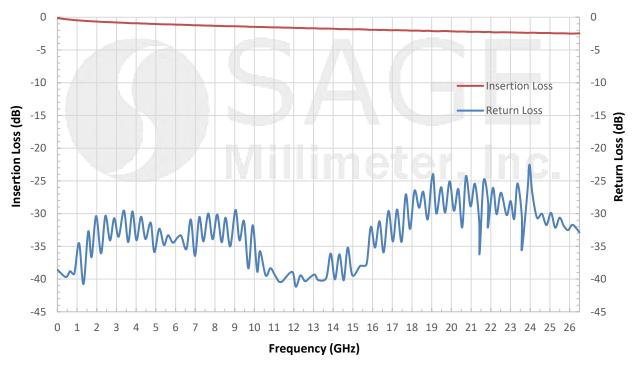


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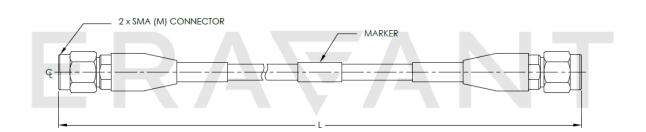
Final Rev. 1.2

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Typical Insertion Loss & Return Loss vs. Frequency



Mechanical Outline: (Unless otherwise specified, all dimensions are in inches)



Note:

- Length "L" can be customizable.
- All data presented is collected from a sample lot. Actual data may vary unit to unit slightly.
- All testing was 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, 8.0 ± 0.15 inch-pounds (0.90 ± 0.02 Nm), should be applied. Eravant torque wrench, model SCH-08008-S1, is highly recommended.



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