SCW-2M2M394-F2-A

2.4 mm (M) to 2.4 mm (M) Coaxial Cable, Flexible, Armored, 394”

SCW-2M2M394-F2-A is a 394” long, flexible, armored coaxial cable with 2.4 mm male connectors that cover the frequency range of DC to 50 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		50 GHz
Insertion Loss @ 18 GHz		< 31 dB	
Insertion Loss @ 26.5 GHz		< 38 dB	
Insertion Loss @ 40 GHz		< 47 dB	
Insertion Loss @ 50 GHz		< 52 dB	
Return Loss @ 50 GHz		17.7 dB	
Impedance		50 Ω	
Breakdown Voltage			500 Volts
Radiation Shielding	90 dB	100 dB	
Power Handling @ 50 GHz			15 W (CW)
Specification Temperature		+25 °C	
Operating Temperature	-40 °C		+85 °C

Mechanical Specifications:

Item	Specification
Connectors	2.4 mm Male
Connector Contact Material	Be-Cu / Gold Plating per MIL-G-45204
Connector Material	Passivated Stainless Steel
Connector Dielectric	PEI
Cable Dielectric	ePTFE
Cable Jacket Material	Braided Jacket
Cable Outer Diameter	0.210”
Length	394” [10 m]
Minimum Bending Radius	1.0”
Weight	25 Oz
Outline	CW-22-F10

ECCN

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FEATURES

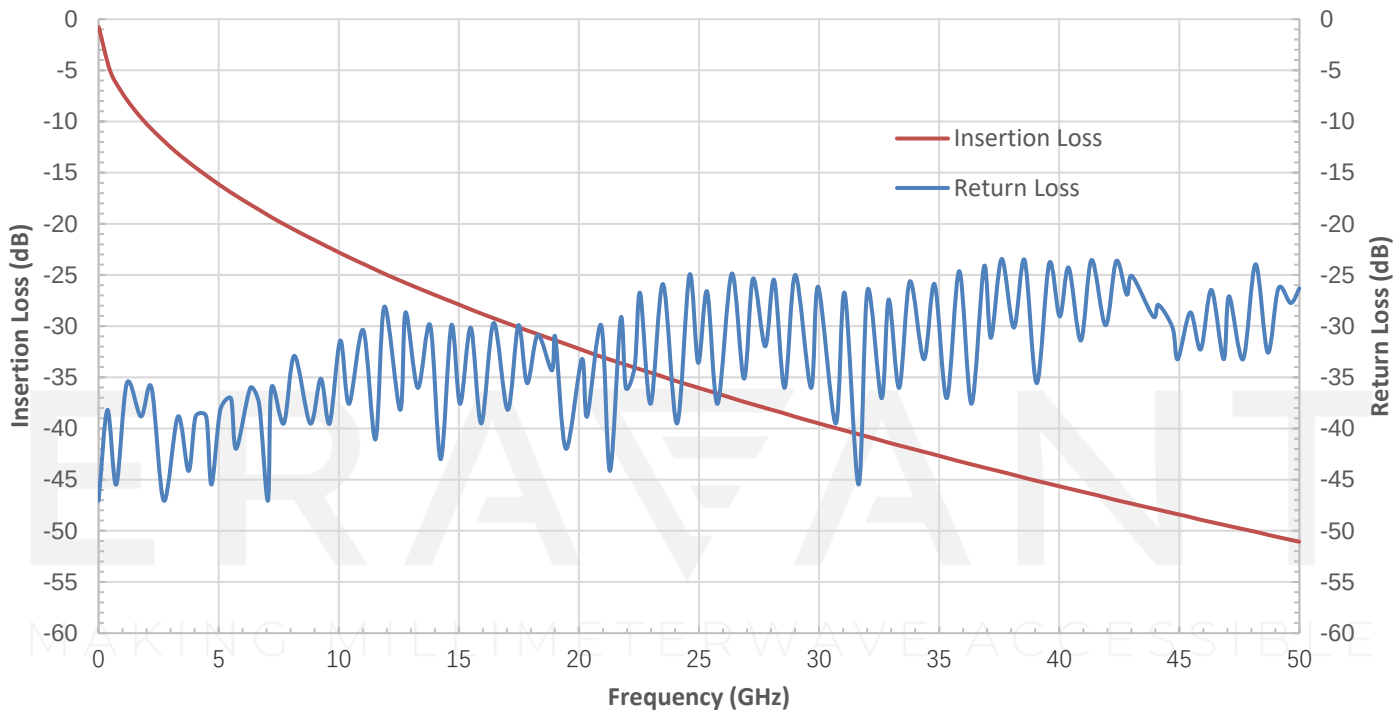
- High Return Loss
- Low Insertion Loss
- Armored
- Flexible and Durable

APPLICATIONS

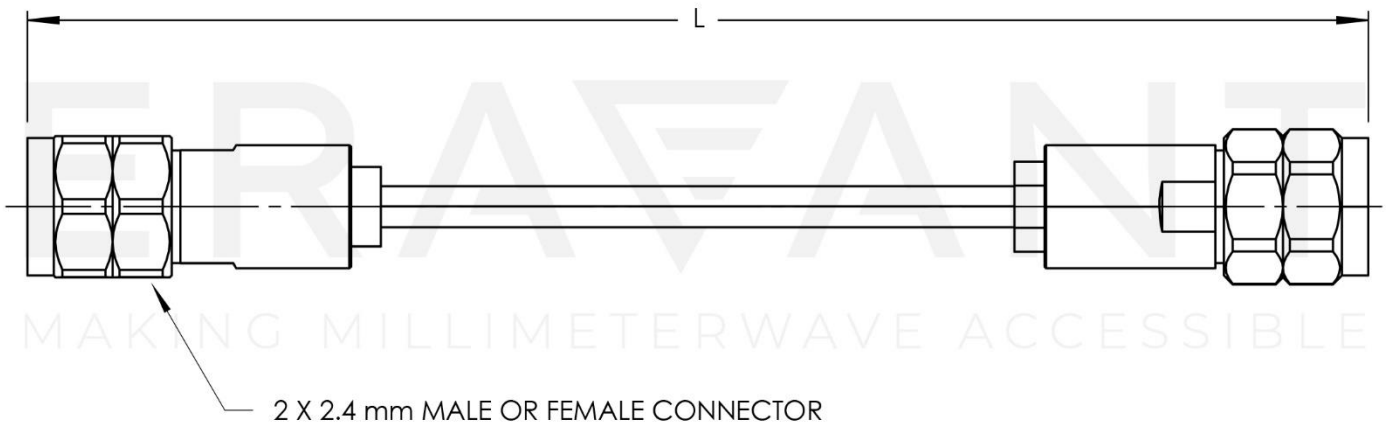
- Test Lab
- Sub-assemblies

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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