

SCW-1M1M024-F2-A-V

1.0 mm (M) to 1.0 mm (M) Coaxial Cable, Flexible, Armored, Thermal Vacuum Safe, 24"

SCW-1M1M024-F2-A-V is a 24" long, flexible, thermal vacuum safe, armored coaxial cable with 1.0 mm male connectors that covers the frequency range of DC to 110 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 connector type combinations and lengths are offered under different models.



Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency Range	DC		110 GHz
Insertion Loss @ 110 GHz		12.5 dB	
Return Loss @ DC to 40 GHz		18 dB	
Return Loss @ 40 to 60 GHz	16 dB	17 dB	
Return Loss @ 60 to 110 GHz	16 dB	17 dB	
Impedance		50 Ω	
Specification Temperature		+25 $^{\circ}\text{C}$	
Operating Temperature	-40 $^{\circ}\text{C}$		+85 $^{\circ}\text{C}$

Mechanical Specifications:

Item	Specification
Connectors 1	1.0 mm Male
Connectors 2	1.0 mm Male
Connector Contact Material	BeCu, Gold Plating per MIL-G-45204
Connector Material	Passivated Stainless Steel
Cable Dielectric	PTFE
Inner / Outer Cable Jacket Material	FEP / Stainless Steel Braid and PTFE
Cable Outer Diameter	0.185"
Length	24"
Minimum Bending Radius	1"
Outline	CW-11-F10-A-V

ECCN

EAR99

FEATURES

- High Performance
- Armored
- Flexible and Reliable
- Thermal Vacuum Safe

APPLICATIONS

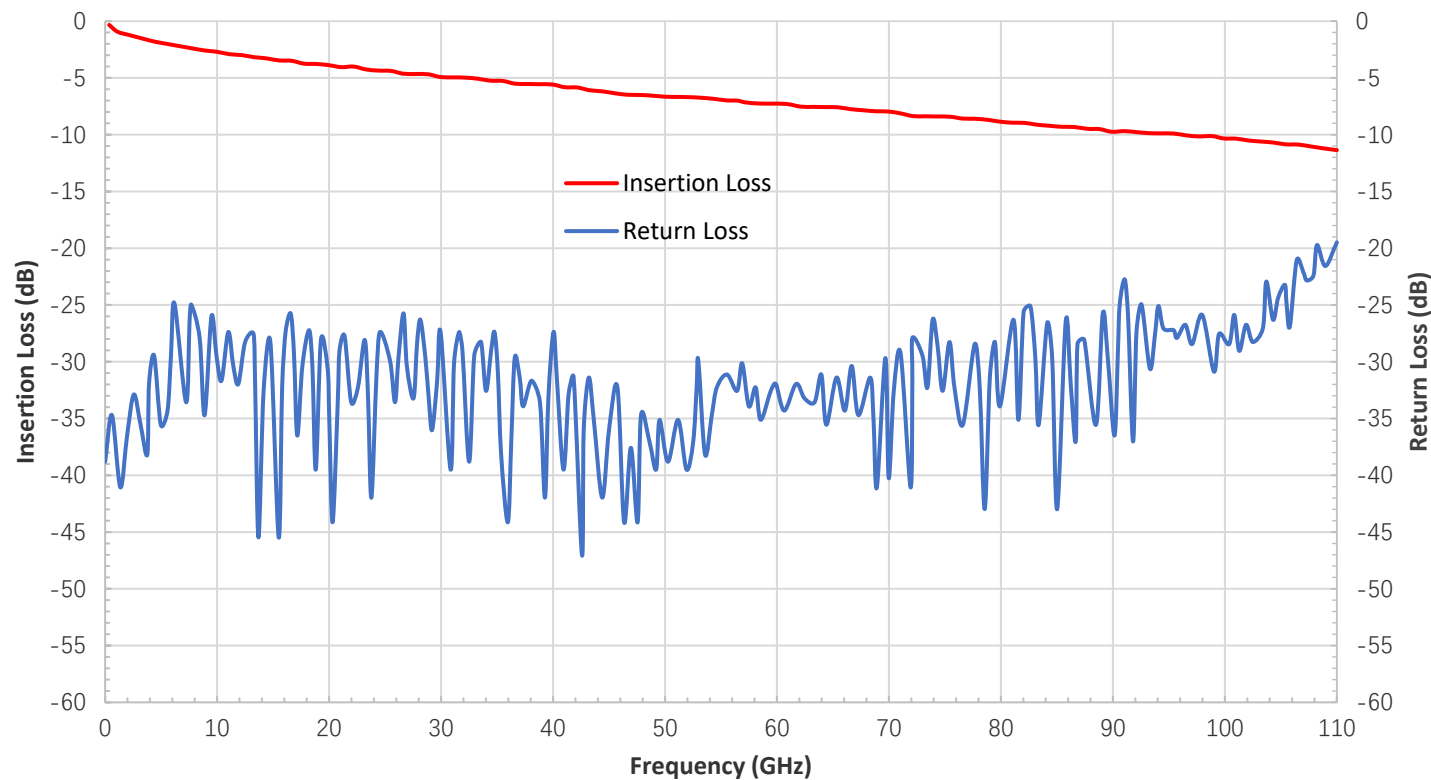
- Test Lab
- Sub-assemblies
- Thermal Vacuum Chamber

SUPPLEMENTAL DETAILS

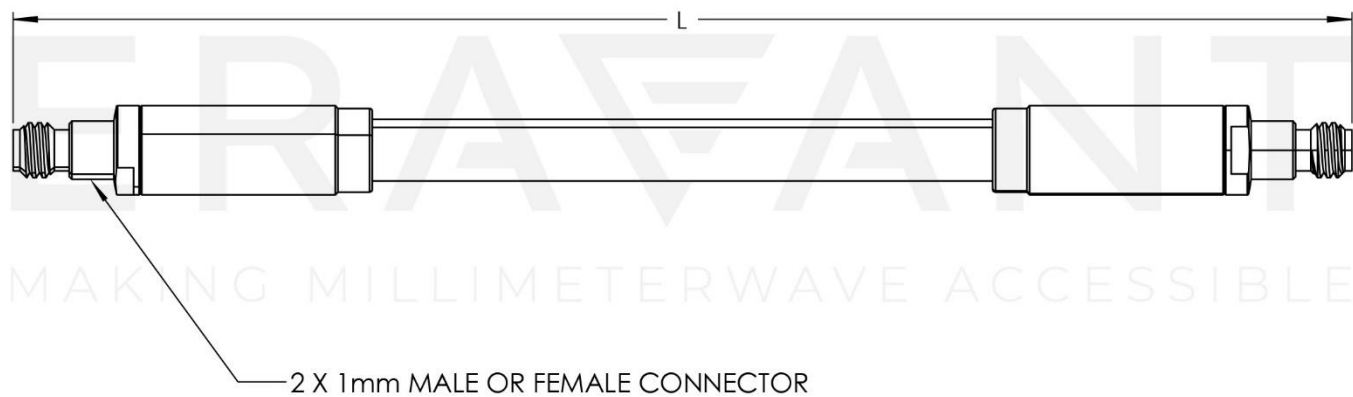


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Typical Performance vs. Frequency



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



NOTE:

LENGTH "L" IS CUSTOMIZABLE

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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: 4.0 ± 0.15 inch-pounds (0.45 ± 0.02 Nm). Torque wrench model SCH-06004-S1 is highly recommended.

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