

SCW-1F1M024-S2-A-V

1.0 mm (F) to 1.0 mm (M) Coaxial Cable, Semi-Rigid, Armored, Thermal Vacuum Safe, 24"

SCW-1F1M024-S2-A-V is a 24" long, semi-rigid, thermal vacuum safe, armored coaxial cable with a 1.0 mm female and a 1.0 mm male connector 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		8.2 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 °C	
Operating Temperature	-40 °C		+85 °C

Mechanical Specifications:

Item	Specification
Connectors 1	1.0 mm Female
Connectors 2	1.0 mm Male
Minimum One-Time Bending Radius	1"
Connector Contact Material	BeCu, Gold Plating per MIL-G-45204
Connector Material	Passivated Stainless Steel
Cable Dielectric	LD PTFE
Outer Cable Jacket Material	Stainless Steel Braid and PTFE
Cable Outer Diameter	0.185"
Length	24"
Outline	CW-11-S10-V

ECCN

EAR99

FEATURES

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

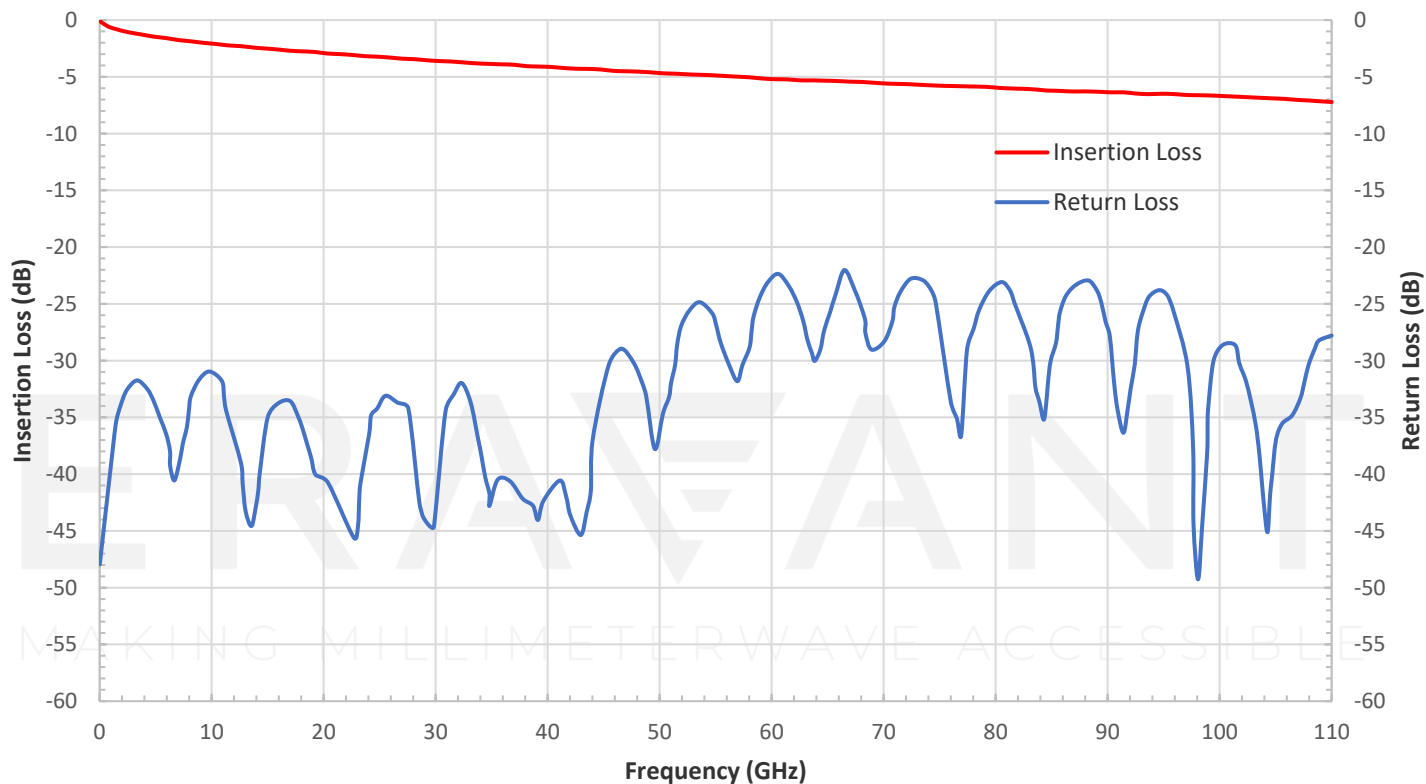
APPLICATIONS

- Test Lab
- Sub-assemblies
- Thermal Vacuum Chamber

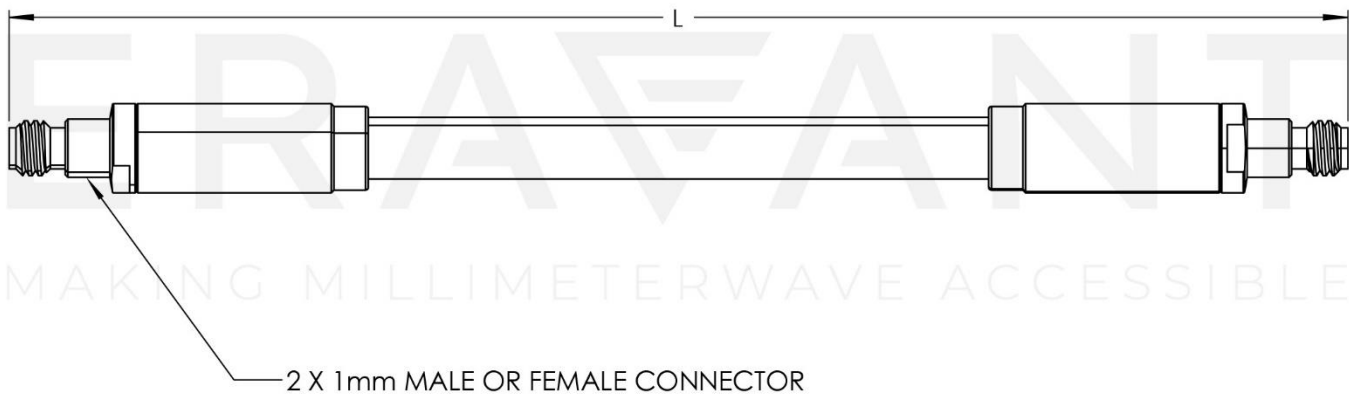
SUPPLEMENTAL DETAILS

SCW-1F1M024-S2-A-V

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

ERAVANT

MAKING MILLIMETERWAVE ACCESSIBLE

ERAVANT

MAKING MILLIMETERWAVE ACCESSIBLE