

SCW-2M2M472-F2-A

2.4 mm (M) to 2.4 mm (M) Coaxial Cable, Flexible, Armored, 472"

SCW-2M2M472-F2-A is a 472" 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 | | < 37 dB | |
| Insertion Loss @ 26.5 GHz | | < 45 dB | |
| Insertion Loss @ 40 GHz | | < 56 dB | |
| Insertion Loss @ 50 GHz | | < 62 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 $^{\circ}$ C | |
| Operating Temperature | -40 $^{\circ}$ C | | +85 $^{\circ}$ 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 | 472" [12 m] |
| Minimum Bending Radius | 1.0" |
| Weight | 30 Oz |
| Outline | CW-22-F10 |

ECCN

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FEATURES

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

APPLICATIONS

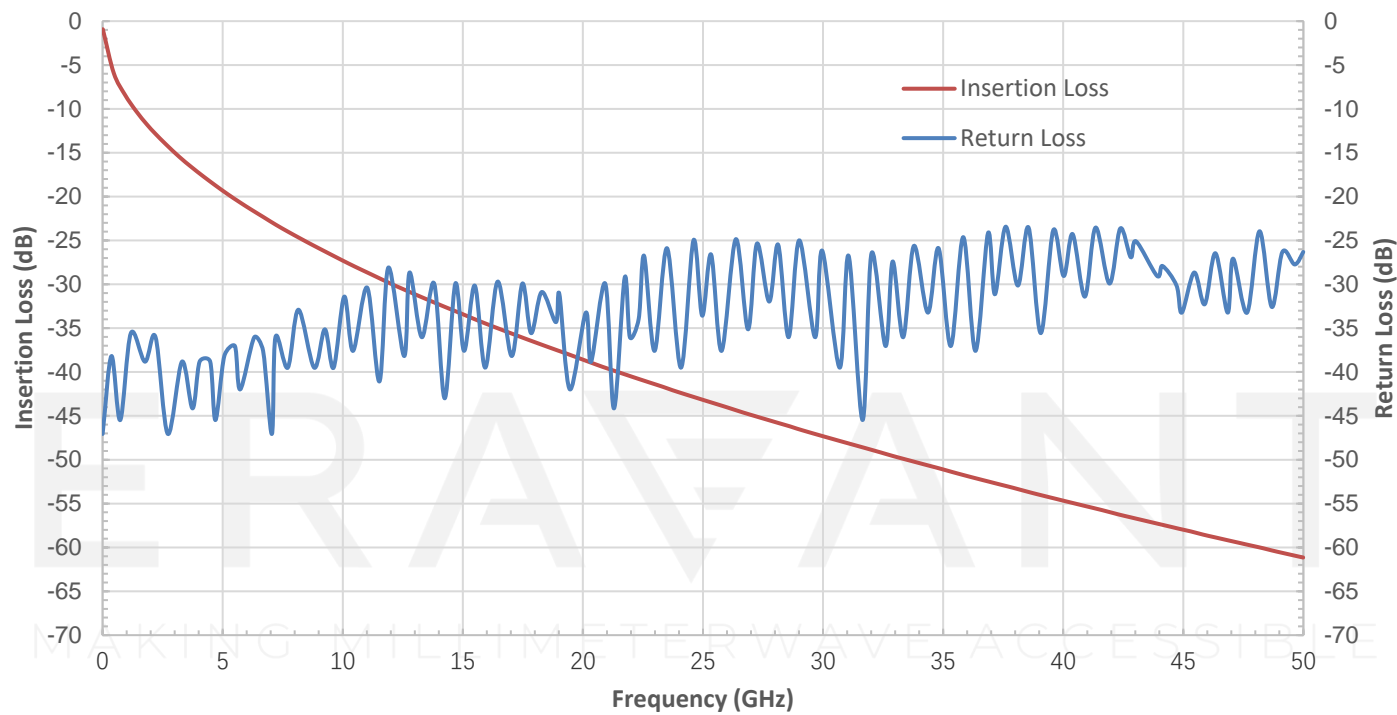
- Test Lab
- Sub-assemblies

SUPPLEMENTAL DETAILS

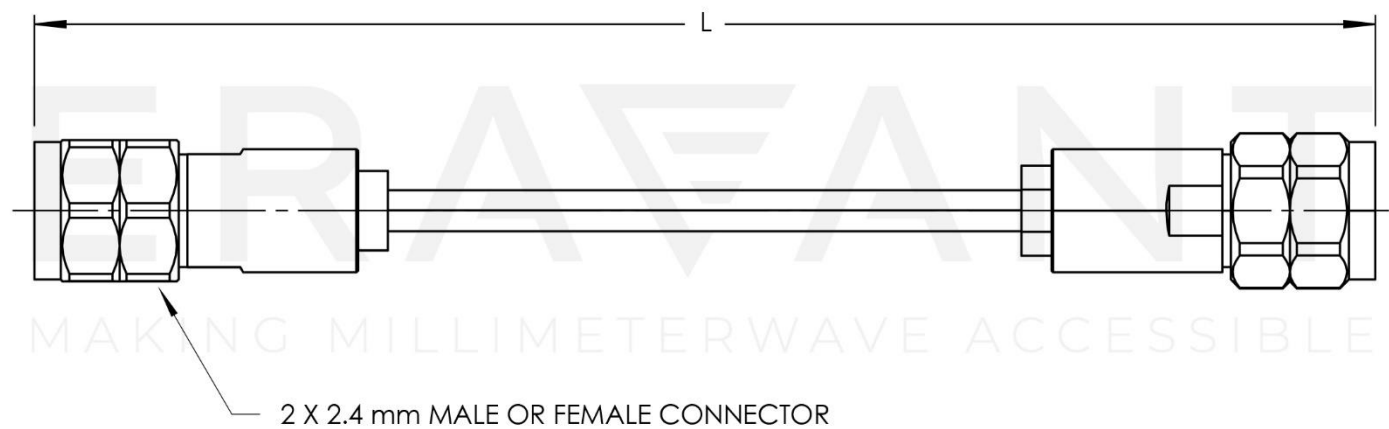


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Typical Performance vs. Frequency



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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