

SCW-2M2M003-E2

2.4 mm (M) to 2.4 mm (M) Coaxial Cable, Semi-Flexible, 3"

SCW-2M2M003-E2 is a 3" long, semi-flexible coaxial cable with 2.4 mm male connectors that cover the frequency range of DC to 50 GHz. The coaxial cable, which is hand formable, 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.



Electrical Specifications:

| Parameter | Minimum | Typical | Maximum |
|---------------------------|---------|-------------|-----------|
| Frequency Range | DC | | 50 GHz |
| Insertion Loss @ 18 GHz | | 0.4 dB | |
| Insertion Loss @ 26.5 GHz | | 0.5 dB | |
| Insertion Loss @ 40 GHz | | 0.6 dB | |
| Insertion Loss @ 50 GHz | | 0.7 dB | |
| Return Loss @ 50 GHz | | 17.7 dB | |
| Impedance | | 50 Ω | |
| Breakdown Voltage | | | 1500 VRMS |
| Radiation Shielding | | 100 dB | |
| Velocity Factor | | 70% | |
| Power Handling @ 50 GHz | | | 15 W (CW) |
| Specification Temperature | | +25 °C | |
| Operating Temperature | -40 °C | | +85 °C |

Mechanical Specifications:

| Item | Specification |
|-------------------------|--------------------------------------|
| Minimum Bending Radius | 0.25" |
| Repeated Bending Radius | 0.787" (< 50 bends) |
| Connectors | 2.4 mm Male |
| Connector Material | Passivated Stainless Steel |
| Outer Conductor | Copper, Tin plated, Tin soaked braid |
| Cable Dielectric | PTFE |
| Cable Outer Diameter | 0.086" |
| Length | 3" |
| Outline | CW-22-E10 |

ECCN

EAR99

FEATURES

- High Return Loss
- Low Insertion Loss
- Semi-Flexible
- Hand-Formable

APPLICATIONS

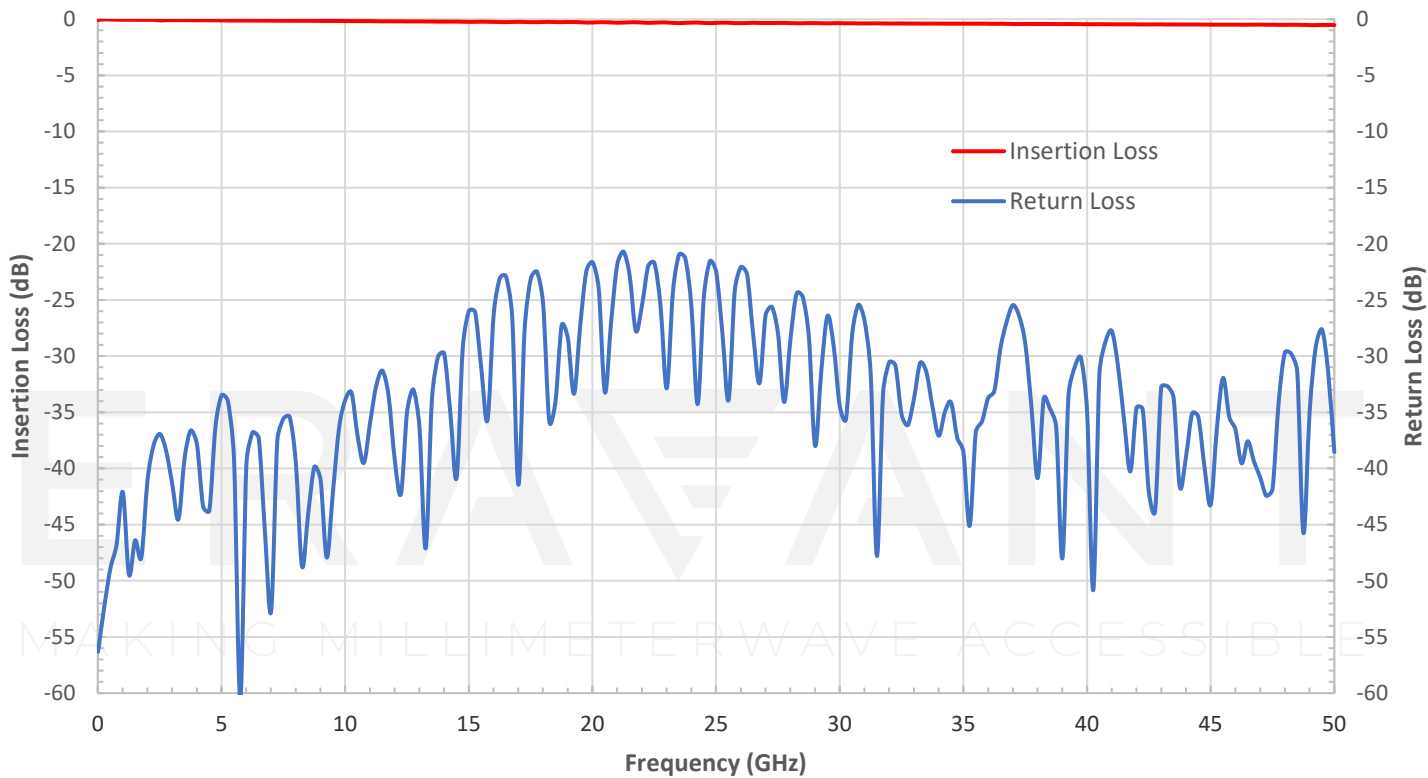
- Test Lab
- Sub-assemblies
- System Integration

SUPPLEMENTAL DETAILS

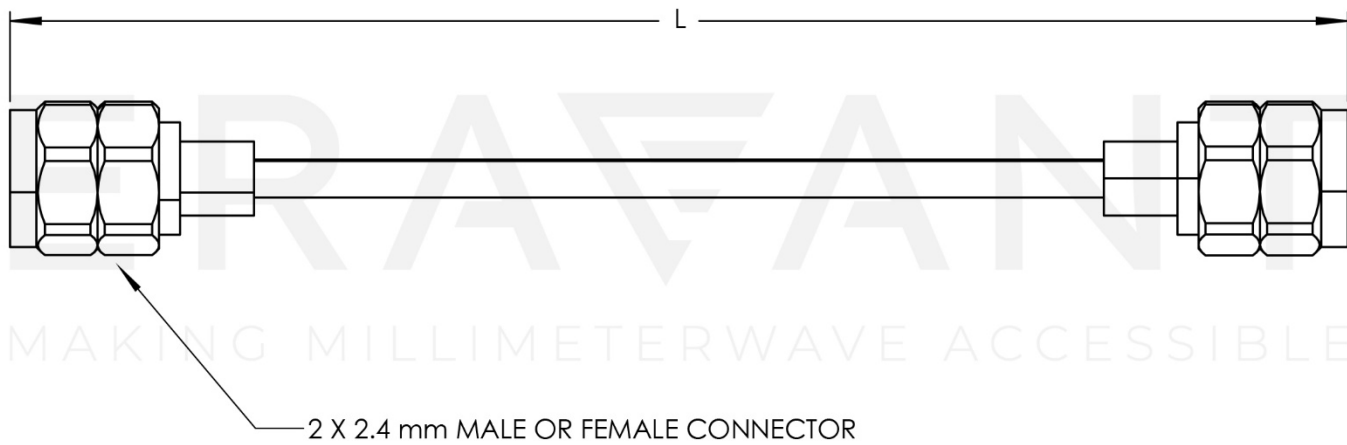


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Typical Performance vs. Frequency



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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