

SMA (M) to SMA (M) Coaxial Cable, Semi-Rigid, 3"

SCW-SMSM003-S2 is a 3" long, semi-rigid coaxial cable with SMA male connectors that cover the frequency range of DC to 26.5 GHz. The coaxial cable 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 | | 26.5 GHz |
| Insertion Loss @ 3 GHz | | 0.2 dB | |
| Insertion Loss @ 6 GHz | | 0.3 dB | |
| Insertion Loss @ 12 GHz | | 0.4 dB | |
| Insertion Loss @ 18 GHz | | 0.5 dB | |
| Insertion Loss @ 26.5 GHz | | 0.6 dB | |
| Return Loss @ 26.5 GHz | | 19 dB | |
| Impedance | | 50 Ω | |
| Breakdown Voltage | | 1500 VRMS | 2500 VRMS |
| Radiation Shielding | | 120 dB | |
| Velocity Factor | | 76.5% | |
| Power Handling @ 26.5 GHz | | | 30 W (CW) |
| Specification Temperature | | +25 °C | |
| Operating Temperature | -40 °C | | +85 °C |

Mechanical Specifications:

| Item | Specification |
|------------------------|----------------------------|
| Minimum Bending Radius | 0.25" |
| Connectors | SMA Male |
| Connector Material | Passivated Stainless Steel |
| Cable Conductor | Copper, Tin Plated |
| Cable Dielectric | LD PTFE |
| Cable Outer Diameter | 0.0865" |
| Length | 3" |
| Outline | CW-SS-S10 |

ECCN

EAR99

FEATURES

- High Return Loss
- Low Insertion Loss
- Semi-Rigid

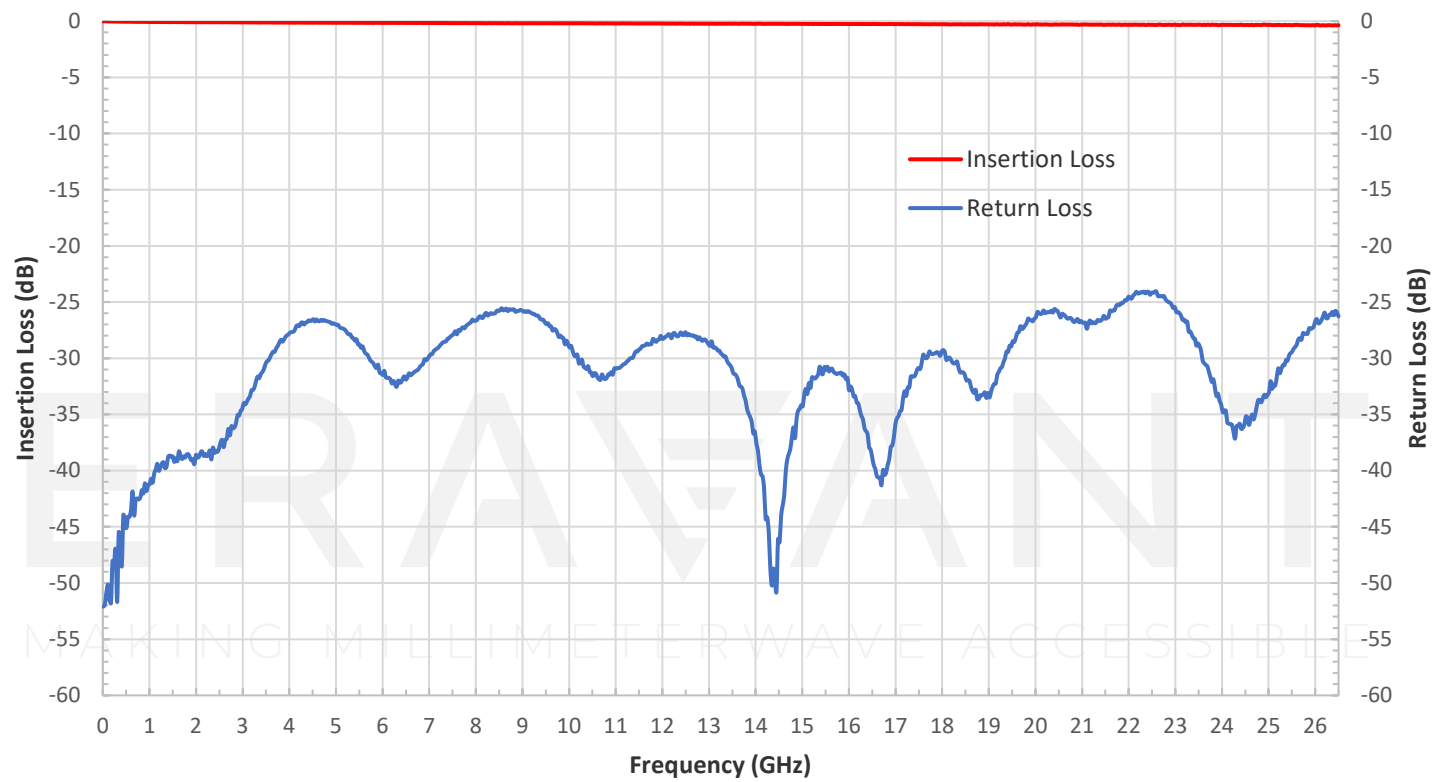
APPLICATIONS

- Test Lab
- Sub-assemblies
- System Integration

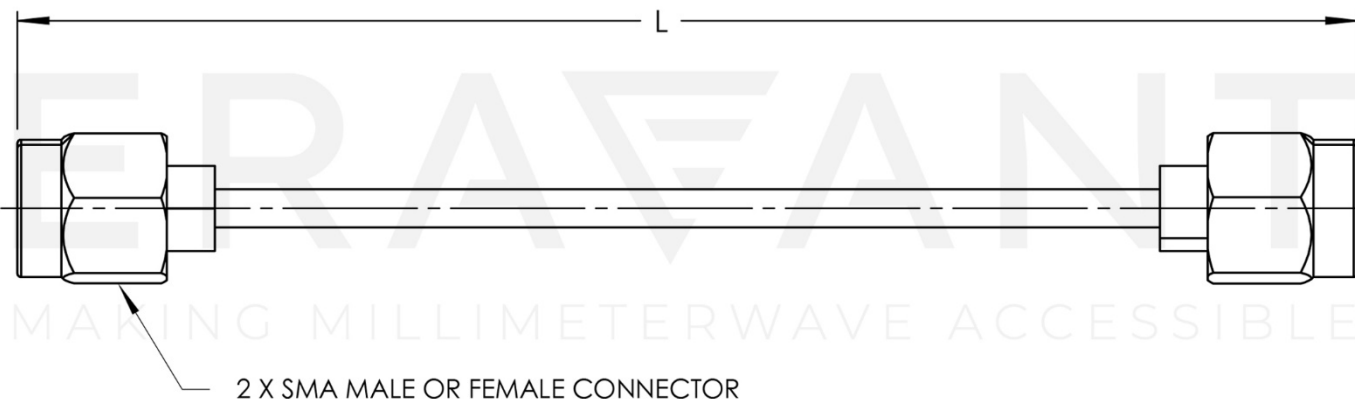
SUPPLEMENTAL DETAILS

SCW-SMSM003-S2

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.

ERAVANT

MAKING MILLIMETERWAVE ACCESSIBLE

ERAVANT

MAKING MILLIMETERWAVE ACCESSIBLE