

1.85 mm (M) to 1.85 mm (M) Coaxial Cable, Flexible, 3"

SCW-VMVM003-F2 is a 3" long, flexible, coaxial cable with 1.85 mm (V) male connectors that cover the frequency range of DC to 67 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 | | 67 GHz |
| Insertion Loss @ 18 GHz | | < 0.4 dB | |
| Insertion Loss @ 30 GHz | | < 0.5 dB | |
| Insertion Loss @ 40 GHz | | < 0.6 dB | |
| Insertion Loss @ 67 GHz | | < 0.7 dB | |
| Return Loss @ 67 GHz | | 17 dB | |
| Impedance | | 50 Ω | |
| Breakdown Voltage | | | 500 Volts |
| Radiation Shielding | 90 dB | 100 dB | |
| Power Handling @ 67 GHz | | | 8 W (CW) |
| Specification Temperature | | +25 °C | |
| Operating Temperature | -40 °C | | +85 °C |

Mechanical Specifications:

| Item | Specification |
|----------------------------|--------------------------------------|
| Connectors | 1.85 mm Male |
| Connector Contact Material | Be-Cu / Gold Plating per MIL-G-45204 |
| Connector Material | Passivated Stainless Steel |
| Connector Dielectric | PEEK/PEI |
| Cable Dielectric | ePTFE |
| Cable Jacket Material | PFA |
| Cable Outer Diameter | 0.085" |
| Length | 3" |
| Minimum Bending Radius | 0.5" |
| Weight | 0.6 Oz |
| Outline | CW-VV-F10 |

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FEATURES

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

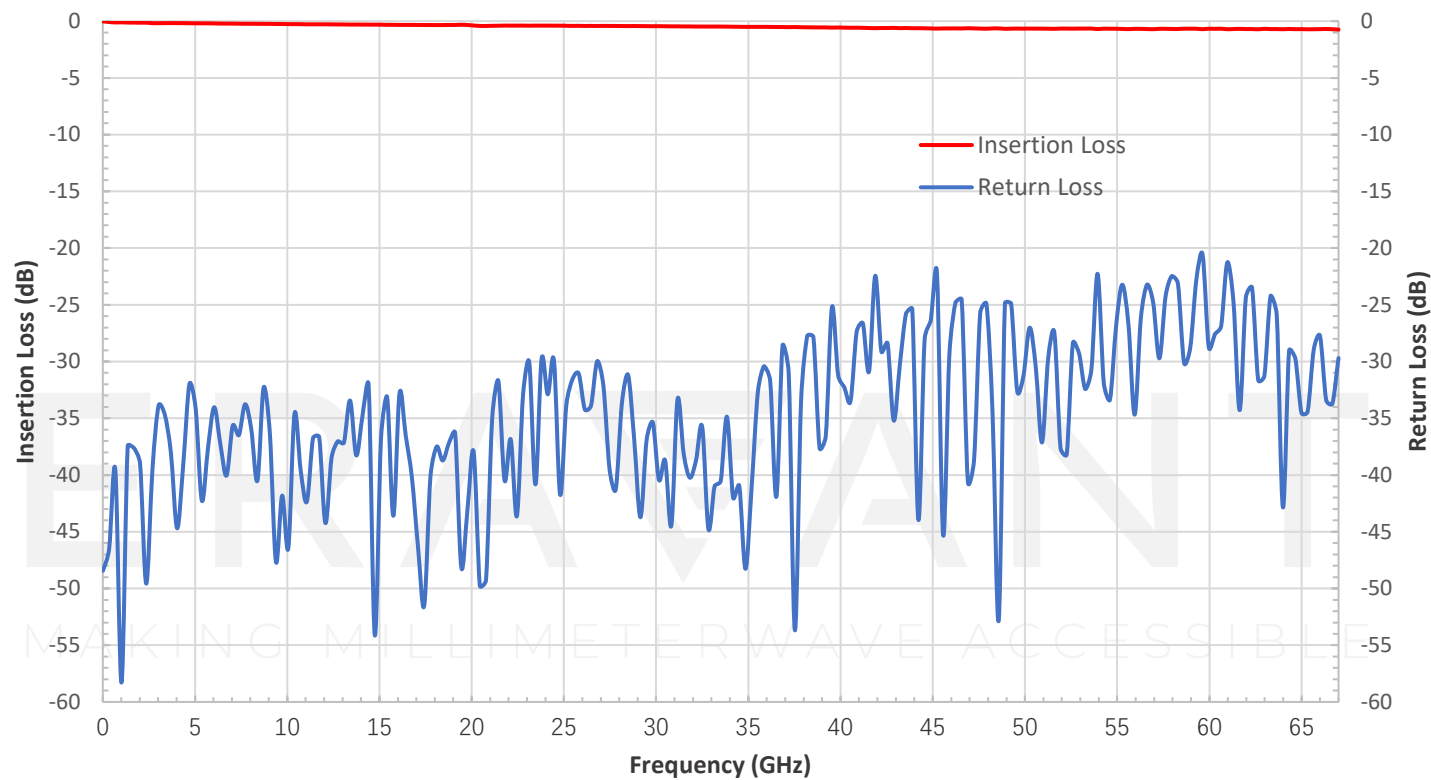
APPLICATIONS

- Test Lab
- Sub-assemblies

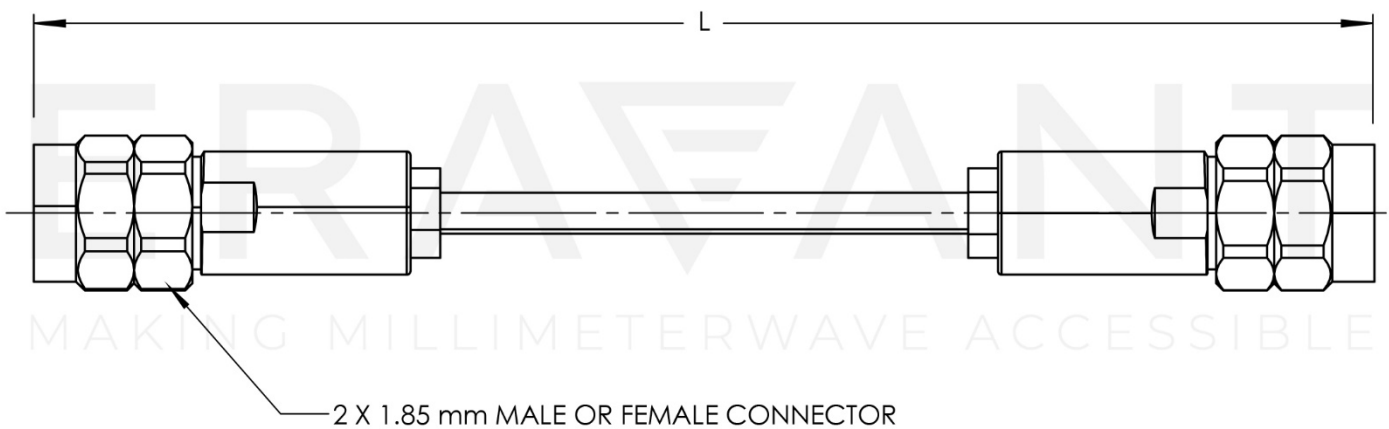
SUPPLEMENTAL DETAILS

SCW-VMVM003-F2

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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