



## 1 mm (M) to 1 mm (F) Coaxial Cable, Flexible, 6", Low Insertion Loss

### Description:

**Model SCW-1F1M006-F1** is a 6" long, flexible coaxial cable with a 1 mm male and 1 mm female connector that covers the frequency range of DC to 110 GHz. The coaxial cable has an impedance of 50 ohms. This coax cable is also offered with both male connectors under model number SCW-1M1M006-F1-2. Additionally, other lengths are offered under different model numbers.



### Features:

- High Return Loss
- Low Insertion Loss
- Flexible

### Applications:

- Test Lab
- Sub-assemblies

### Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency Range	DC		110 GHz
Insertion Loss @ 110 GHz		2.5 dB	
Return Loss		20 dB	
Impedance		50 Ω	
Specification Temperature		+25 °C	
Operating Temperature	-40 °C		+85 °C

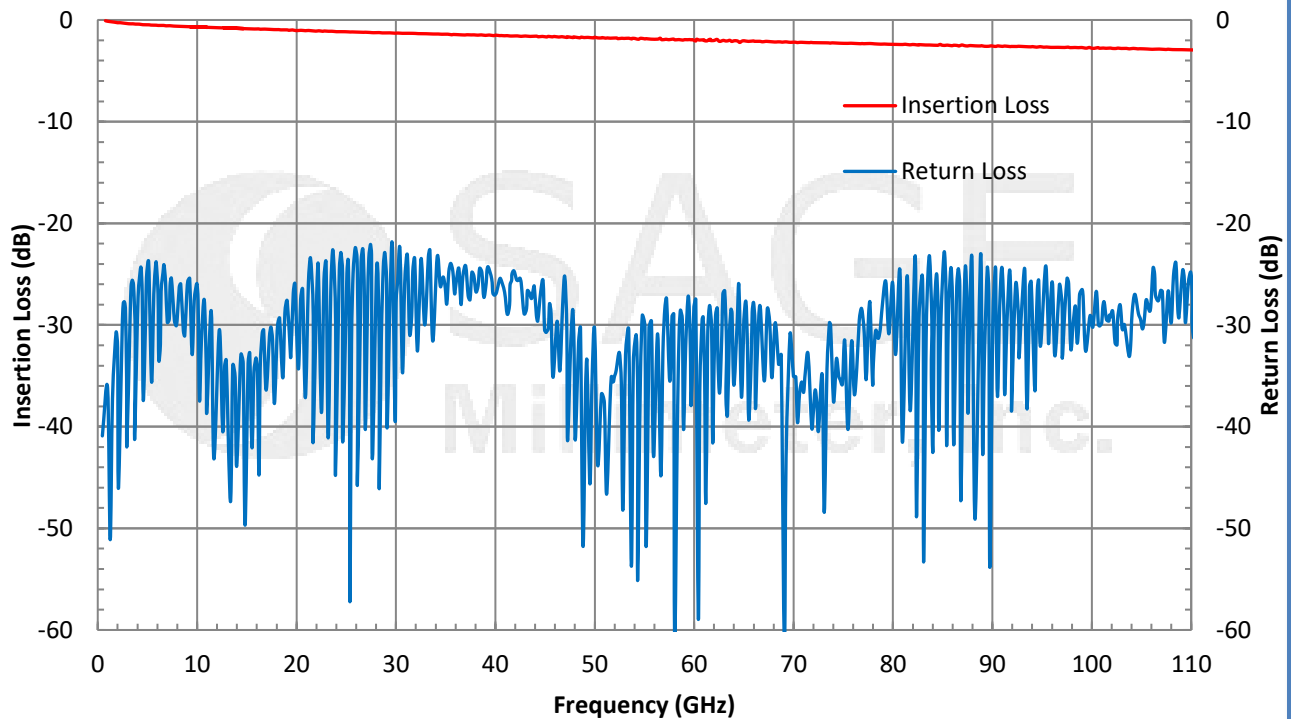
### Mechanical Specifications:

Item	Specification
Connectors	1 mm Male and 1 mm Female
Connector Material	Passivated Stainless Steel
Cable Inner Conductor	Copper, Silver Plated
Cable Outer Conductor I	Braided Copper, Silver Plated
Cable Outer Conductor II	Flat Wire Copper, Silver Plated
Cable Insulator Material	Fluorinated Ethylene Propylene (FEP), Clear
Cable Outer Sheath	Fluorinated Ethylene Propylene (FEP), Blue
Cable Outer Diameter	0.058"
Length	6"
Minimum Bending Radius	0.201"
Weight	0.2 Oz
Outline	CW-11-F7

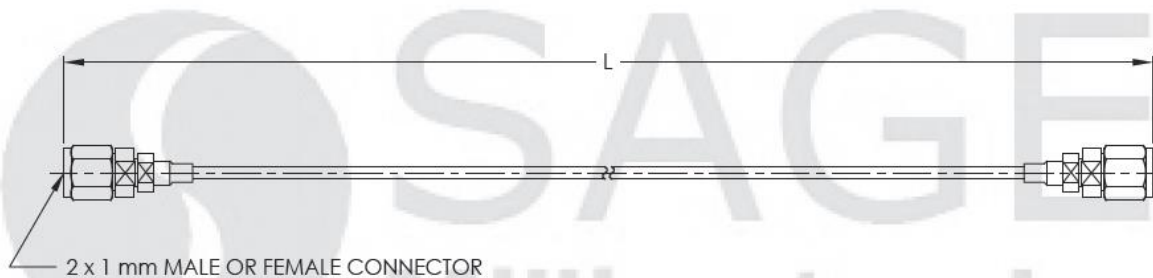


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### Typical Performance vs. Frequency



**Mechanical Outline:** (Unless otherwise specified, all dimensions are in inches)



**Note:**

- Length "L" can be customizable.
- All data presented is collected from a sample lot. Actual data may vary unit to unit, slightly.
- All testing was performed under +25 °C case temperature.
- SAGE Millimeter, Inc. reserves the right to change the information presented without notice.

**Caution:**

- Proper torque,  $4.0 \pm 0.15$  inch-pounds ( $0.45 \pm 0.02$  Nm), should be used. **SAGE Millimeter torque wrench, model SCH-06004-S1, is highly recommended.**

