# SCW-VMVM012-S1-PM

## 1.85 mm (M) to 1.85 mm (M) Coaxial Cable, Semi-Rigid, 12", Phase Matched

### **Description:**

**Model SCW-VMVM012-S1-PM** is a 12" long, semi-rigid, phase matched coaxial cable with 1.85 (V) mm male connectors that cover the frequency range of DC to 60 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.

#### **Features:**

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

### **Electrical Specifications:**

 SAGE Millimeter C.
Customizable Length

## **Applications:**

- Test Lab
- Sub-assemblies
- System Integration

Parameter	Minimum	Typical	Maximum
Frequency	DC		60 GHz*
Insertion Loss @ 18 GHz		1.3 dB	
Insertion Loss @ 26.5 GHz		1.6 dB	
Insertion Loss @ 40 GHz		2.1 dB	
Insertion Loss @ 50 GHz		3.3 dB	
Insertion Loss @ 60 GHz		4.4 dB	
Return Loss @ 60 GHz		16 dB	
Impedance		50 Ω	
Phase Match (Unit to Unit)		±10 °	
Breakdown Voltage			500 V
Radiation Shielding		120 dB	
Velocity Factor		70%	
Power Handling @ 60 GHz	VI.1.1.1.1		10 W (CW)
Specification Temperature	VIIIm	+25 °C	nc
Operating Temperature	-40 °C		+85 °C

\*The highest operation frequency is 67 GHz.

#### **Mechanical Specifications:**

Item	Specification
Minimum Bending Radius	0.126″
Connectors	1.85 (V) mm Male
Connector Material	Passivated Stainless Steel
Cable Conductor	Brass, Gold Plated
Cable Insulators	PEEK/PEI
Cable Outer Diameter	0.087″
Length	12"
Outline	CW-VV-S8

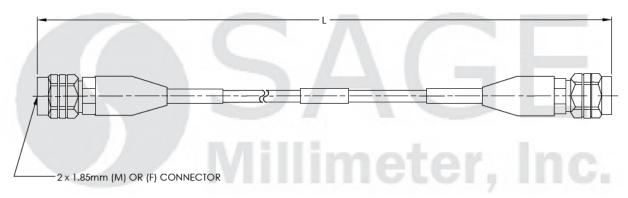


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#### Mechanical Outline: (Unless otherwise specified, all dimensions are in inches)



#### 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:**

- Bending the cable sharply will either cause damage or degrade the performance of the cable.
- Proper torque, 8.0 ± 0.15 inch-pounds (0.90 ± 0.02 Nm), should be applied. SAGE Millimeter torque wrench, model SCH-08008-U3, is highly recommended.



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