# SCW-VMVM040-F1-PM

## 1.85 mm (M) to 1.85 mm (M) Coaxial Cable, Flexible, 40", Phase Matched

### **Description:**

**Model SCW-VMVM040-F1-PM** is a 40" long, flexible, phase matched coaxial cable with 1.85 (V) mm 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.

#### Features:

Applications:

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

#### **Electrical Specifications:**

Parameter	Minimum	Typical	Maximum
Frequency	DC		67 GHz
Insertion Loss @ 18 GHz		< 3.2 dB	
Insertion Loss @ 30 GHz		< 4.5 dB	
Insertion Loss @ 40 GHz		< 5.4 dB	
Insertion Loss @ 67 GHz		< 7.3 dB	
Return Loss @ 67 GHz		17 dB	
Impedance		50 Ω	
Phase Match (Unit to Unit)		±10 °	
Breakdown Voltage		Contraction of Contraction	500 Volts
Radiation Shielding		100 dB	
Power Handling @ 67 GHz			8 W (CW)
Specification Temperature		+25 °C	
Operating Temperature	-40 °C	atar	+85 °C

#### **Mechanical Specifications:**

Item	Specification
Connectors	1.85 mm Male
Connector Contact Material/Plating	Beryllium Copper (BeCu)/Gold Plating Per MIL-G-45204
Connector / Cable Insulation Layer Material	Passivated Stainless Steel / PEEK/PEI
Cable Jacket Material	PFA
Cable Outer Diameter	0.087″
Length	40"
Minimum Bending Radius	0.197″
Repeated Bending Radius	0.867″
Weight	0.88 Oz
Outline	CW-VV-F8



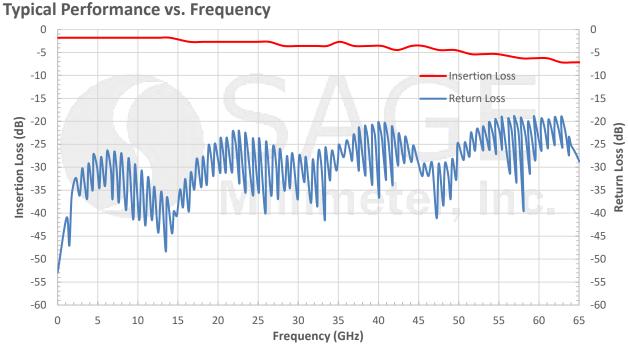
www.sagemillimeter.com | 3043 Kashiwa Street, Torrance, CA 90505 Phone: 424-757-0168 | Fax: 424-757-0188 | Email: sales@sagemillimeter.com

Test Lab

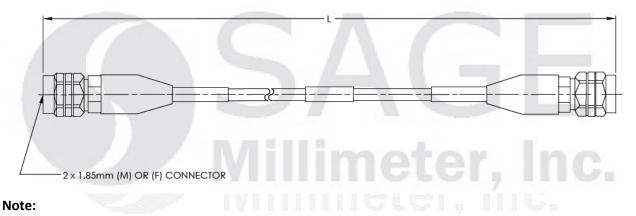
Sub-assemblies

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



- 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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