

## SCW-VFVM048-F2-PM

**1.85 mm (F) to 1.85 mm (M) Coaxial Cable, Flexible, 48",  
Phase Matched**

**SCW-VFVM048-F2-PM** is a 48" long, flexible, phase matched coaxial cable with a 1.85 mm (V) female connector and a 1.85 mm (V) male connector 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		< 3.8 dB	
Insertion Loss @ 30 GHz		< 4.9 dB	
Insertion Loss @ 40 GHz		< 5.7 dB	
Insertion Loss @ 67 GHz		< 7.2 dB	
Return Loss @ 67 GHz		17 dB	
Impedance		50 $\Omega$	
Phase Match (Unit to Unit)		$\pm 33.5^\circ$	
Breakdown Voltage			500 Volts
Shielding Effectiveness	90 dB	100 dB	
Power Handling @ 67 GHz			8 W (CW)
Specification Temperature		+25 $^\circ\text{C}$	
Operating Temperature	-40 $^\circ\text{C}$		+85 $^\circ\text{C}$

**ECCN**

EAR99

**FEATURES**

- Instrumentation Grade
- High Return Loss
- Low Insertion Loss

**APPLICATIONS**

- Test Lab
- Sub-assemblies

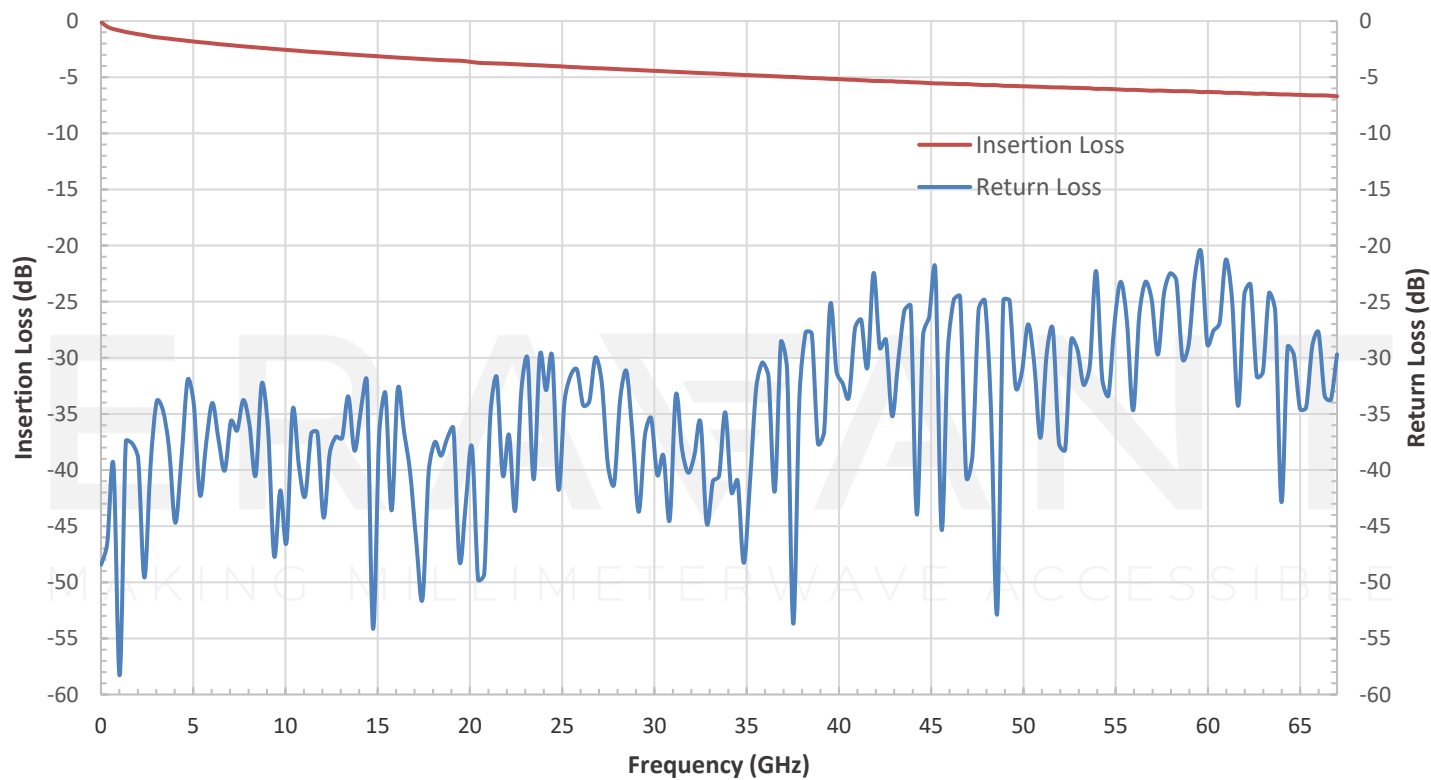
**SUPPLEMENTAL DETAILS**

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Mechanical Specifications:

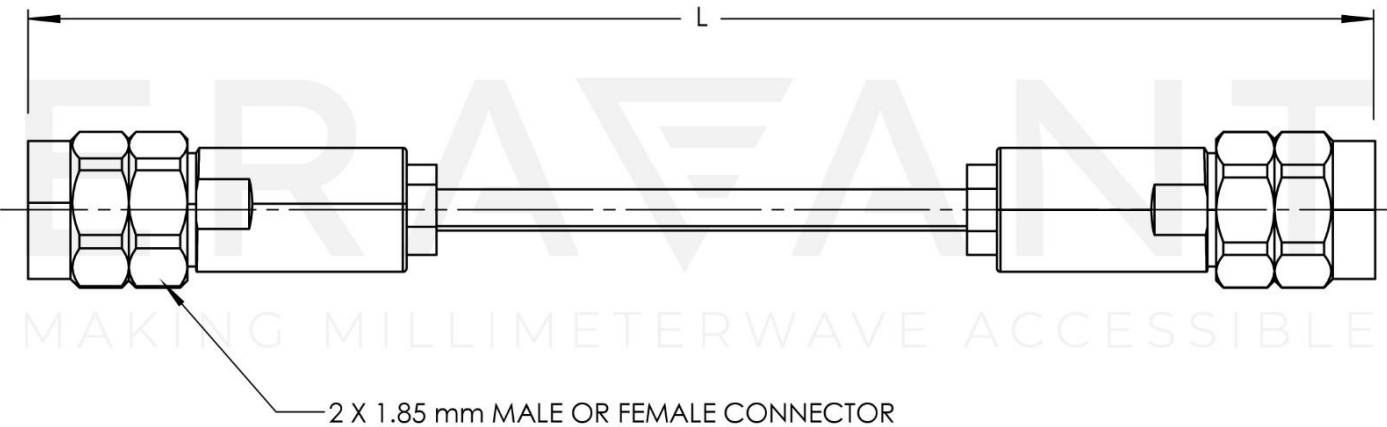
Item	Specification
Connector 1	1.85 mm Female
Connector 2	1.85 mm Male
Connector Contact Material	Be-Cu / Gold Plating per MIL-G-45204
Connector Material	Passivated Stainless Steel
Connector Dielectric	PEEK/PEI
Cable Dielectric	ePTFE
Cable Jacket Material	PFA
Cable Outer Diameter	0.085"
Length	48"
Minimum Bending Radius	0.5"
Weight	1.3 Oz
Outline	CW-VV-F10

Typical Performance vs. Frequency



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**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:  $8.0 \pm 0.15$  inch-pounds ( $0.90 \pm 0.02$  Nm). Torque wrench model SCH-08008-S1 is highly recommended.