SCW-VMVM024-S1

Rev. 1.0

1.85 mm (M) to 1.85 mm (M) Coaxial Cable, Semi-Rigid, 24”

Description:

Model SCW-VMVM024-S1 is a 24” long, semi-rigid 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

Applications:

- Test Lab
- Sub-assemblies
- System Integration

Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency	DC		60 GHz*
Insertion Loss @ 18 GHz		2.2 dB	
Insertion Loss @ 26.5 GHz		2.7 dB	
Insertion Loss @ 40 GHz		3.5 dB	
Insertion Loss @ 50 GHz		4.7 dB	
Insertion Loss @ 60 GHz		5.5 dB	
Return Loss @ 60 GHz		16 dB	
Impedance		50 Ω	
Breakdown Voltage			500 V
Radiation Shielding		120 dB	
Velocity Factor		70%	
Power Handling @ 60 GHz			10 W (CW)
Specification Temperature		+25 °C	
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	24”
Weight	0.6 Oz
Outline	CW-VV-S8

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

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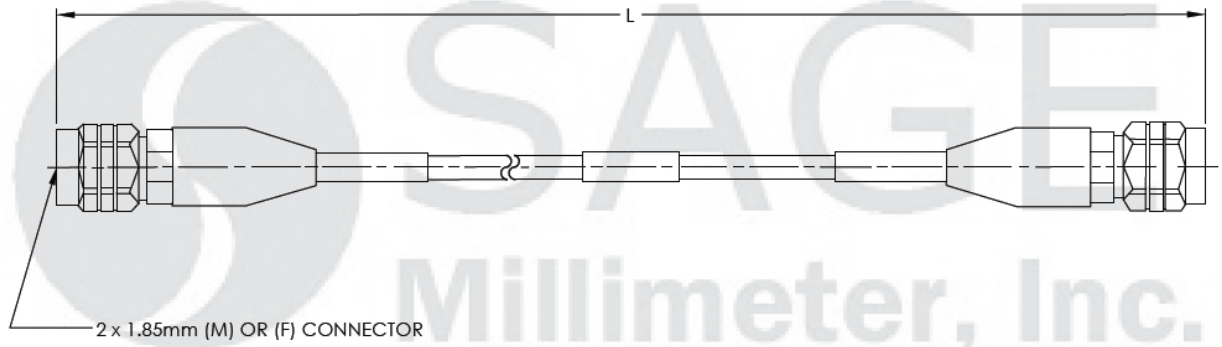
Mechanical Outline: (Unless otherwise specified, all dimensions are in inches)



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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