

1.85 mm (M) to 1.85 mm (M) Coaxial Cable, Flexible, Armored, Thermal Vacuum Safe, 100"

SCW-VMVM100-F2-A-V is a 100" long, flexible, thermal vacuum safe, armored coaxial cable with 1.85 mm (V) male connectors that cover the frequency range of DC to 70 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		70 GHz
Insertion Loss @ 18 GHz		< 8.0 dB	
Insertion Loss @ 30 GHz		< 10.0 dB	
Insertion Loss @ 40 GHz		< 12.0 dB	
Insertion Loss @ 70 GHz		< 16.5 dB	
Return Loss @ 70 GHz		16 dB	
Impedance		50 Ω	
Breakdown Voltage			500 Volts
Radiation Shielding	90 dB	100 dB	
Power Handling @ 67 GHz			8 W (CW)
Specification Temperature		+25 °C	
Operating Temperature	-40 °C		+85 °C

Mechanical Specifications:

Specification			
1.85 mm (V) Male			
Be-Cu / Gold Plating per MIL-G-45204			
Passivated Stainless Steel			
PEI			
ePTFE			
FEP / Stainless Steel Braid and PTFE			
0.199"			
100"			
1.125"			
CW-VV-F10-A-V			

ECCN

EAR99

FEATURES

- High Return Loss
- · Low Insertion Loss
- Armored
- Flexible and Durable
- Thermal Vacuum Safe

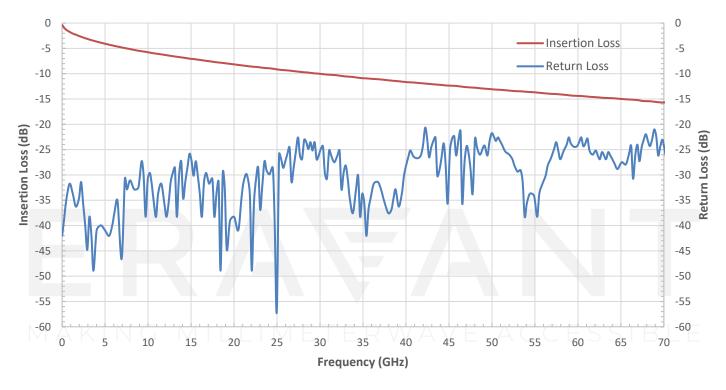
APPLICATIONS

- Test Lab
- Sub-assemblies
- Thermal Vacuum Chamber

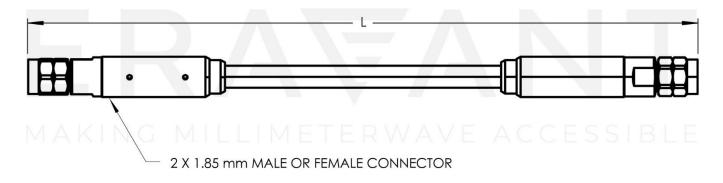
SUPPLEMENTAL DETAILS



Typical Performance vs. Frequency



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 ± 0.15 inch-pounds (0.90 ± 0.02 Nm). Torque wrench model <u>SCH-08008-S1</u> is highly recommended.

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