

2.4 mm (M) to 2.4 mm (M) Coaxial Cable, Semi-Flexible, 18"

SCW-2M2M018-E2 is a 18" long, semi-flexible coaxial cable with 2.4 mm male connectors that cover the frequency range of DC to 50 GHz. The coaxial cable, which is hand formable, 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.

**Electrical Specifications:**

Parameter	Minimum	Typical	Maximum
Frequency Range	DC		50 GHz
Insertion Loss @ 18 GHz		1.9 dB	
Insertion Loss @ 26.5 GHz		2.3 dB	
Insertion Loss @ 40 GHz		3.0 dB	
Insertion Loss @ 50 GHz		3.5 dB	
Return Loss @ 50 GHz		17.7 dB	
Impedance		50 Ω	
Breakdown Voltage			1500 VRMS
Radiation Shielding		100 dB	
Velocity Factor		70%	
Power Handling @ 50 GHz			15 W (CW)
Specification Temperature		+25 °C	
Operating Temperature	-40 °C		+85 °C

Mechanical Specifications:

Item	Specification
Minimum Bending Radius	0.25"
Repeated Bending Radius	0.787" (< 50 bends)
Connectors	2.4 mm Male
Connector Material	Passivated Stainless Steel
Outer Conductor	Copper, Tin plated, Tin soaked braid
Cable Dielectric	PTFE
Cable Outer Diameter	0.086"
Length	18"
Outline	CW-22-E10

ECCN

EAR99

FEATURES

- High Return Loss
- Low Insertion Loss
- Semi-Flexible
- Hand-Formable

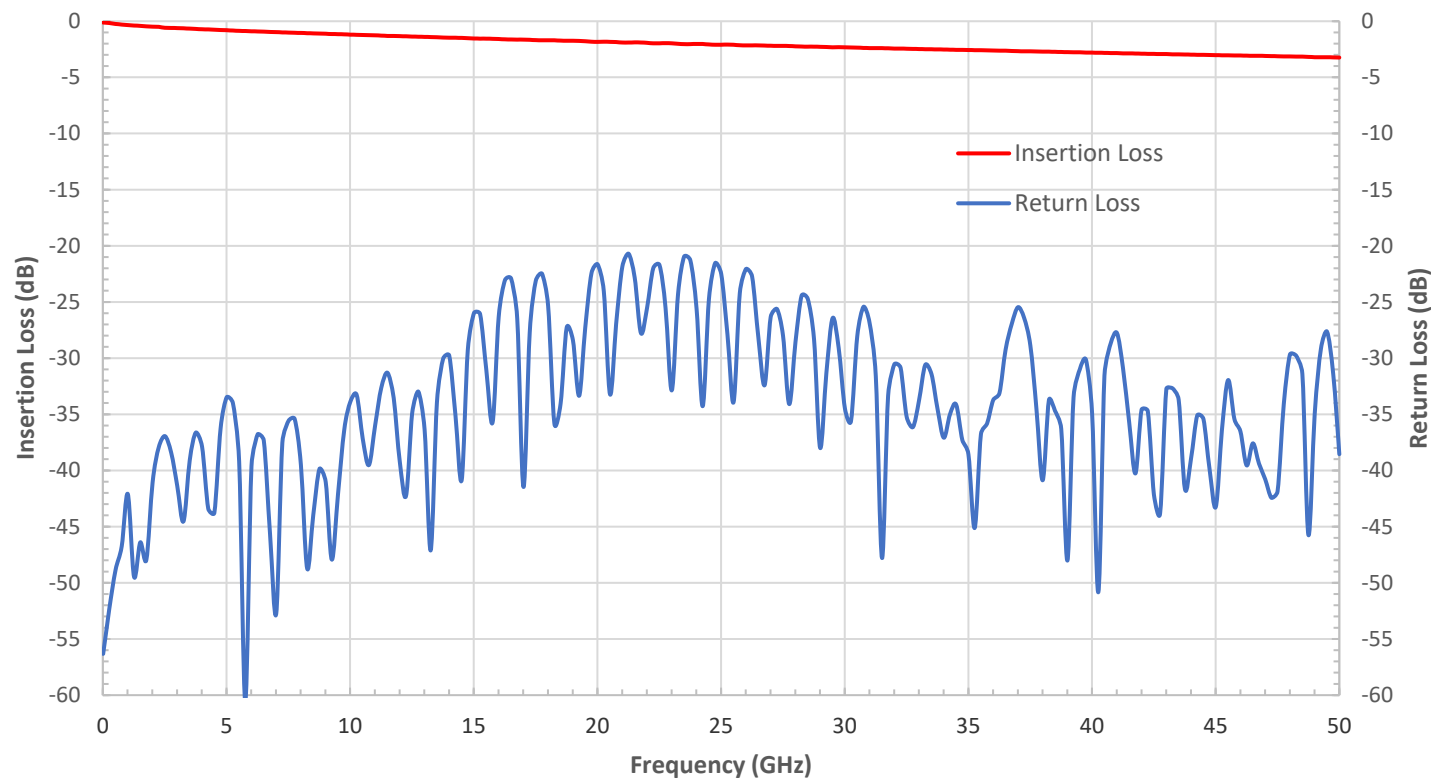
APPLICATIONS

- Test Lab
- Sub-assemblies
- System Integration

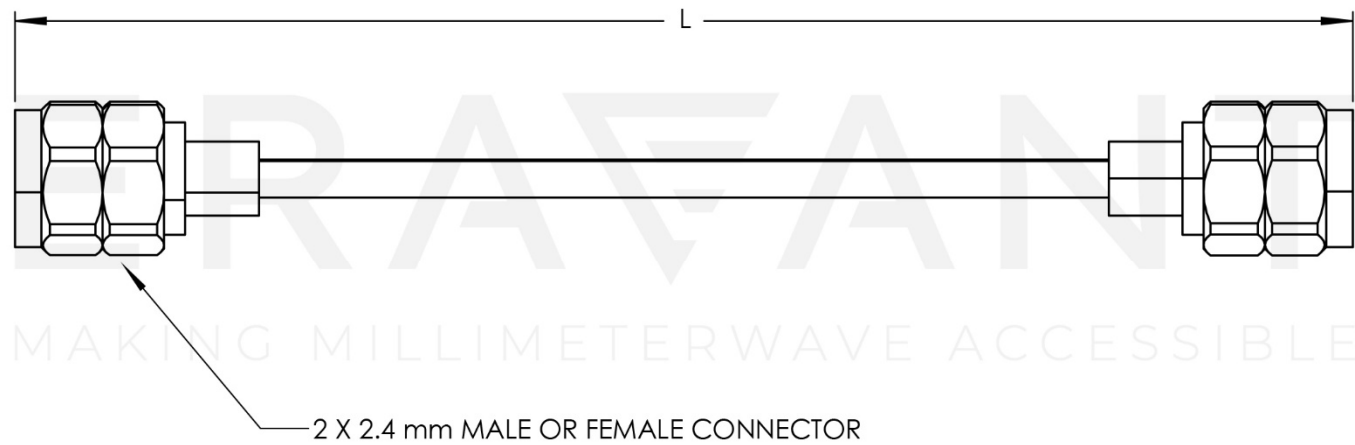
SUPPLEMENTAL DETAILS

SCW-2M2M018-E2

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 SCH-08008-S1 is highly recommended.

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