SCW-EMEM018-F2

1.35 mm (M) to 1.35 mm (M) Coaxial Cable, Flexible, 18”

SCW-EMEM018-F2 is a 18” long, flexible, coaxial cable with 1.35 mm (E) male connectors that cover the frequency range of DC to 90 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.

Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency Range	DC		90 GHz
Insertion Loss		8.7 dB	
Return Loss		14 dB	
Impedance		50 Ω	
Power Handling			2 W (CW)
Specification Temperature		+25 °C	
Operating Temperature	-40 °C		+85 °C

Mechanical Specifications:

Item	Specification
Connectors	1.35 mm Male
Connector Material	Passivated Stainless Steel
Connector Inner Conductor	Beryllium Copper
Connector Insulator Material	PEI
Cable Center Conductor	Silver Plated Copper
Cable Dielectric	PTFE
Cable Outer Sheath	Fluorinated Ethylene Propylene (FEP)
Cable Outer Diameter	0.062”
Length	18”
Minimum Bending Radius	0.200”
Repeated Bending Radius	0.375”
Weight	0.8 Oz
Outline	CW-EE-F10

ECCN

EAR99

FEATURES

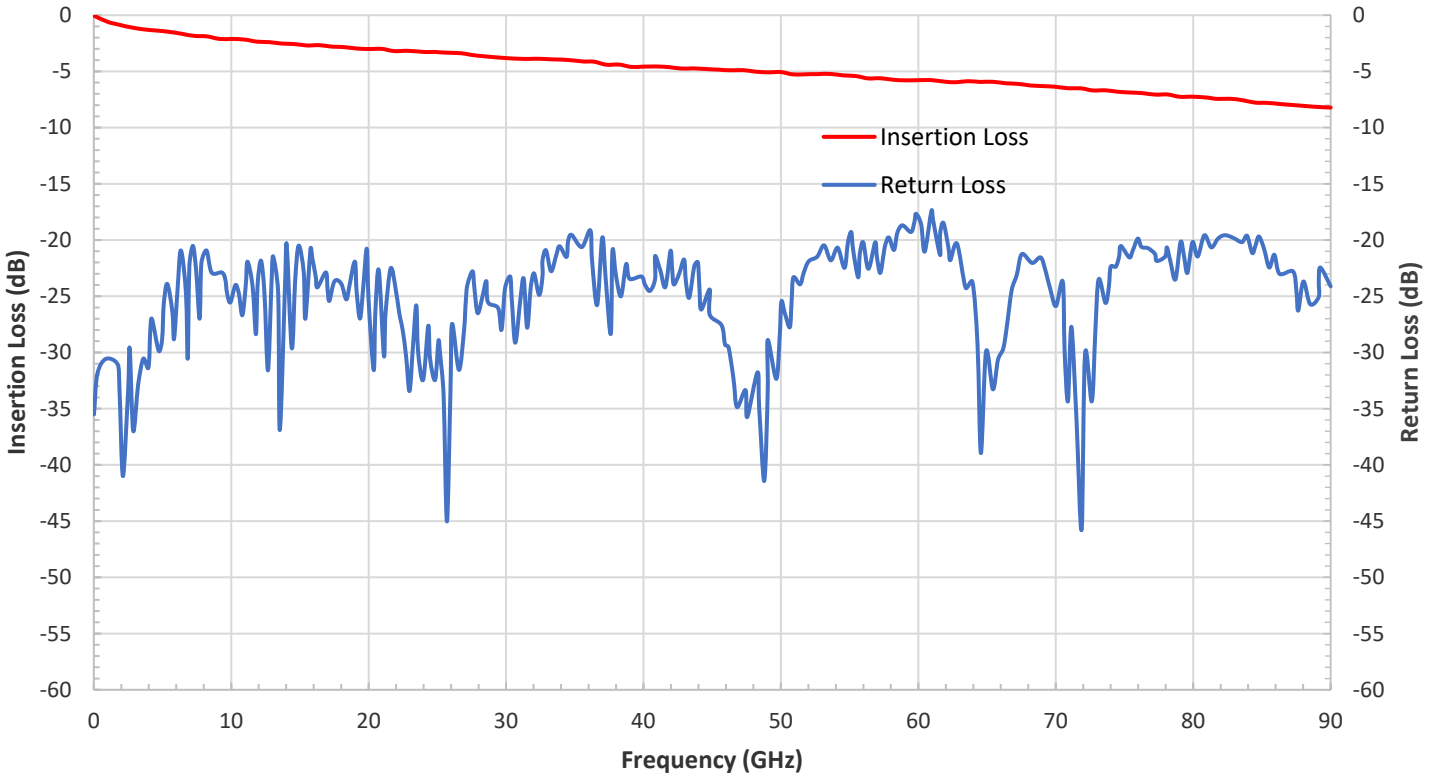
- High Return Loss
- Low Insertion Loss
- Flexible and Durable

APPLICATIONS

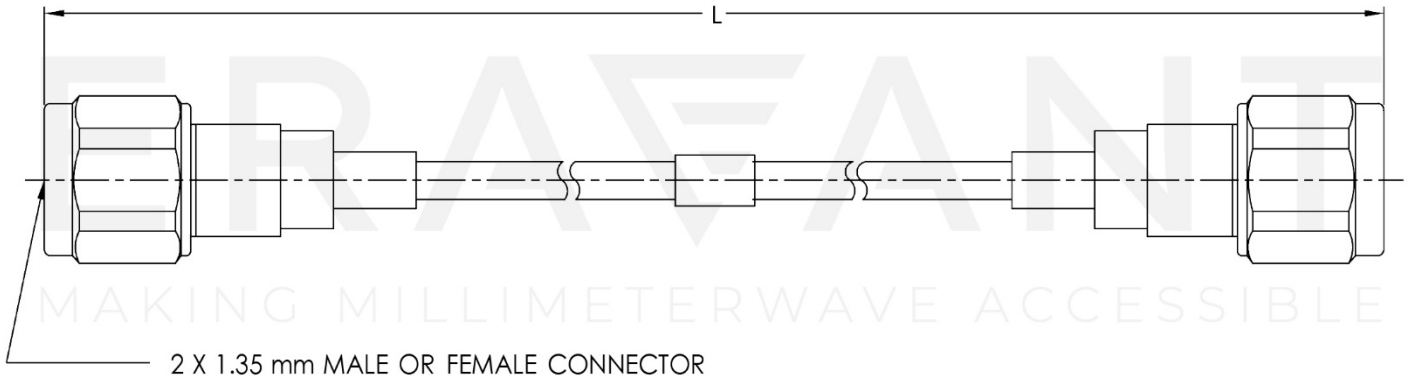
- Test Lab
- Sub-assemblies

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 SCH-08008-S1 is highly recommended.