

2.92 mm (M) to 2.92 mm (M) Coaxial Cable, Semi-Flexible, 9"

SCW-KMKM009-E2 is a 9" long, semi-flexible coaxial cable with 2.92 mm (K) male connectors that cover the frequency range of DC to 40 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 | | 40 GHz |
| Insertion Loss @ 18 GHz | | < 1.0 dB | |
| Insertion Loss @ 26.5 GHz | | < 1.3 dB | |
| Insertion Loss @ 32 GHz | | < 1.4 dB | |
| Insertion Loss @ 40 GHz | | < 1.6 dB | |
| Return Loss @ 40 GHz | | 19 dB | |
| Impedance | | 50 Ω | |
| Breakdown Voltage | | | 1500 VRMS |
| Radiation Shielding | | 100 dB | |
| Velocity Factor | | 70% | |
| Power Handling @ 40 GHz | | | 18 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 | 2.92 mm (K) Male |
| Connector Material | Passivated Stainless Steel |
| Outer Conductor | Copper, Tin plated, Tin soaked braid |
| Cable Dielectric | PTFE |
| Cable Outer Diameter | 0.086" |
| Length | 9" |
| Outline | CW-KK-E10 |

ECCN

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FEATURES

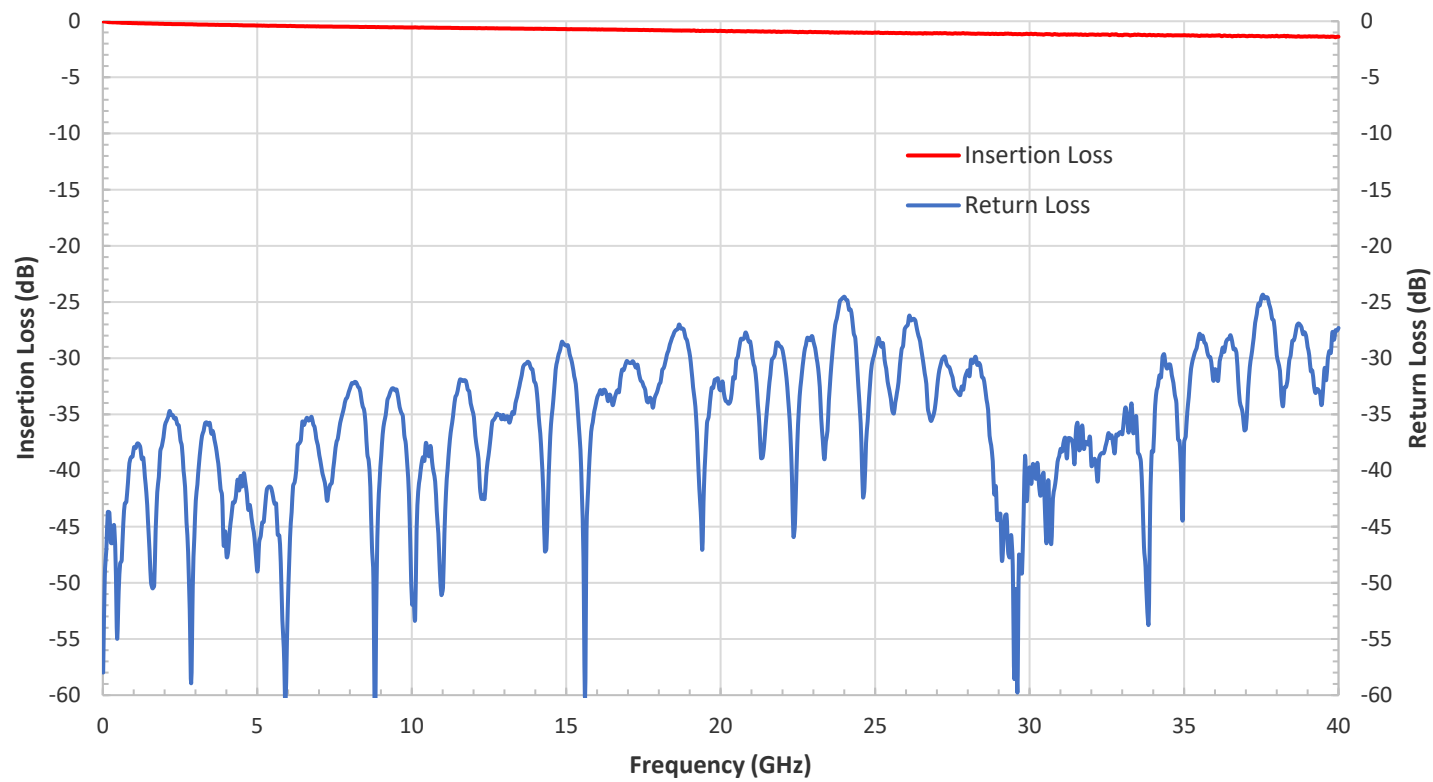
- High Return Loss
- Low Insertion Loss
- Semi-Flexible
- Hand-Formable

APPLICATIONS

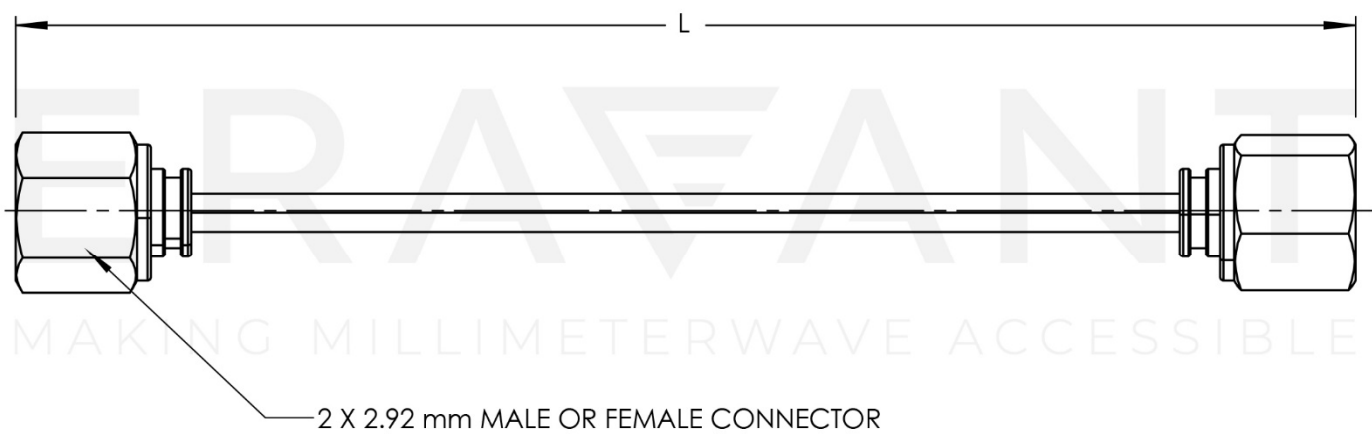
- Test Lab
- Sub-assemblies
- System Integration

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.

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