

STQ-CW-KMKM012-F2-PS

2.92 mm (M) to 2.92 mm (M) Coaxial Cable, Flexible, Armored, Phase Stable, 12"

STQ-CW-KMKM012-F2-PS is a 12" long, flexible, phase stable, armored coaxial cable with 2.92 mm (K) male connectors that cover the frequency range of DC to 43 GHz. The typical amplitude and phase stabilities at 43 GHz are ± 0.05 dB and $\pm 5^\circ$ at a bending radius of 2.25", respectively. 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 | | 43 GHz |
| Insertion Loss @ 18 GHz | | 1.1 dB | |
| Insertion Loss @ 26.5 GHz | | 1.2 dB | |
| Insertion Loss @ 32 GHz | | 1.6 dB | |
| Insertion Loss @ 43 GHz | | 1.9 dB | |
| Return Loss | | 19 dB | |
| Phase Stability* | | $\pm 5^\circ$ | |
| Amplitude Stability* | | ± 0.05 dB | |
| Impedance | | 50 Ω | |
| Radiation Shielding | | 100 dB | |
| Specification Temperature | | +25 $^\circ\text{C}$ | |
| Operating Temperature | -55 $^\circ\text{C}$ | | +125 $^\circ\text{C}$ |

*When cable is wrapped 360° around a 2.25" (57 mm) radius mandrel.

ECCN

EAR99

FEATURES

- High Performance
- Phase Stable
- Armored
- Flexible
- Stable and Reliable

APPLICATIONS

- Test Lab
- VNA
- Microwave Anechoic Chambers
- Antenna Ranges

SUPPLEMENTAL DETAILS

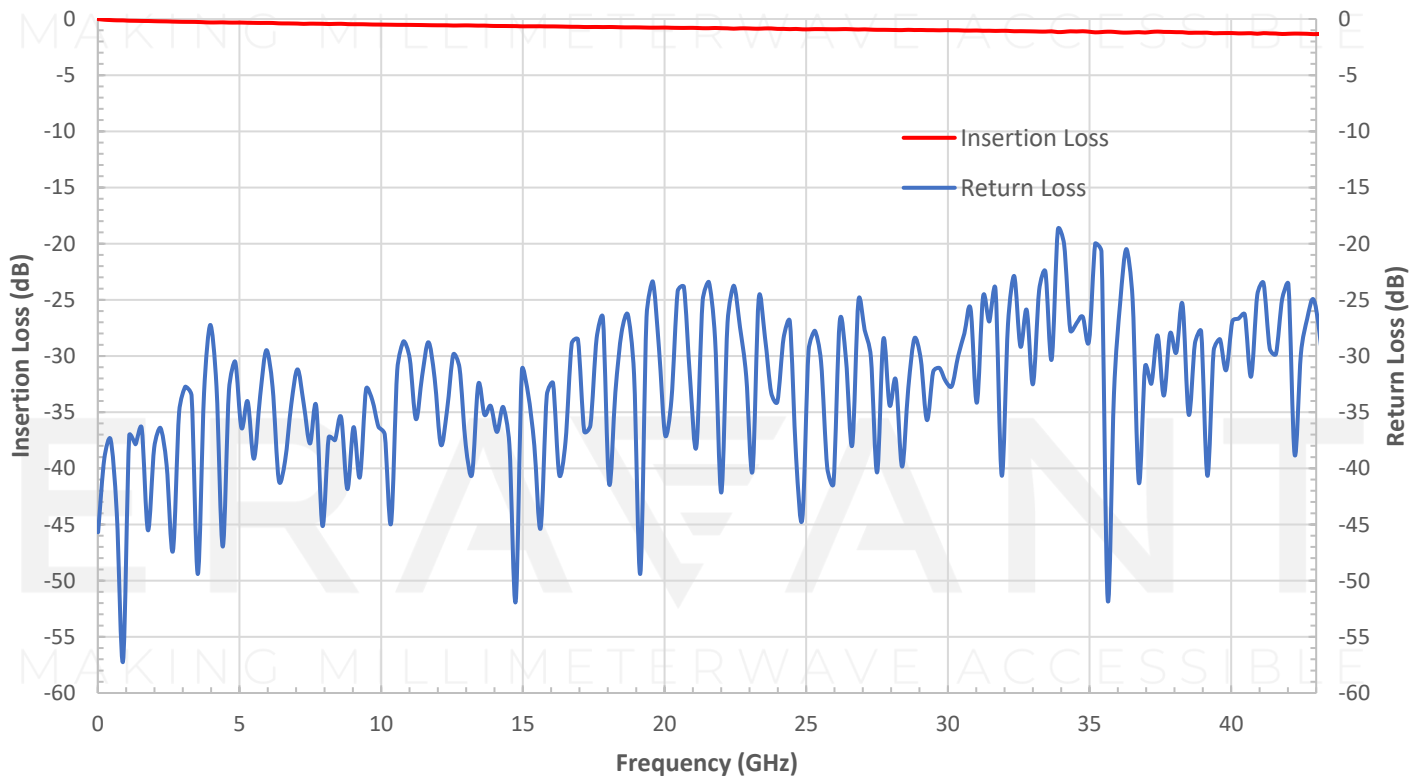


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Mechanical Specifications:

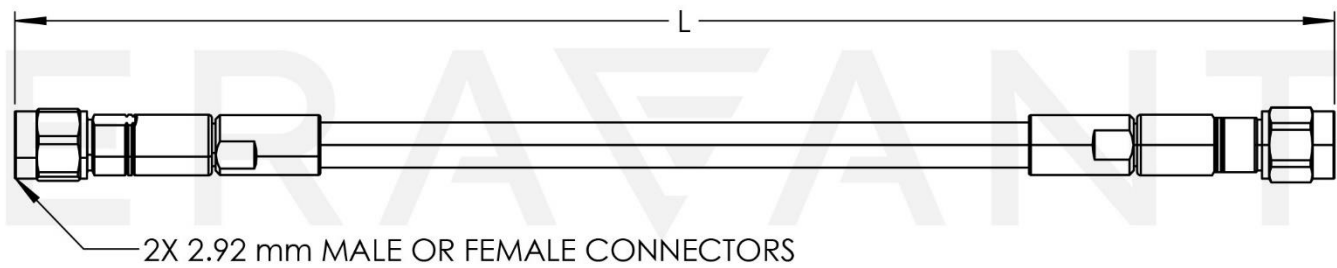
| Item | Specification |
|-------------------------------------|--|
| Connectors | 2.92 mm (K) Male |
| Connector Contact Material | Be-Cu / Gold Plating per MIL-G-45204 |
| Connector Material | Passivated Stainless Steel |
| Connector Dielectric | PEI |
| Cable Dielectric | ePTFE |
| Inner / Outer Cable Jacket Material | Braided Strength Member / Braided Jacket |
| Cable Outer Diameter | 0.210" |
| Length | 12" |
| Minimum Bending Radius | 1.0" |
| Outline | CW-KK-F10-A-PS |

Typical Performance vs. Frequency



STQ-CW-KMKM012-F2-PS

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.