

KL-800C — High-Precision Test Cable

High-Precision Test Cable — Flexible, Low-VSWR Construction



Structure & Materials

Element	Dimension (mm)	Material
Center Conductor	2.39	Silver-Plated Copper
Dielectric	6.16	Low-Density PTFE
Inner Shield	6.40	Silver-Plated Copper Tape
Middle Layer	6.70	Low-Density PTFE (Reinforcement)
Outer Shield	7.25	Silver-Plated Copper Braid
Outer Jacket	7.80	FEP (Custom Colors Available)

Electrical Properties

Parameter	Value
Operating Frequency	DC – 18 GHz
Cutoff Frequency	18 GHz
Characteristic Impedance	50 Ω
Velocity of Propagation	84%
Shielding Effectiveness	> 90 dB
Dielectric Withstanding Voltage	2500 V DC

Attenuation & Power Handling (Typical, 25°C / 40°C)

Frequency (MHz)	1000	2000	3000	6000	8000	10000	12400	18000
Attenuation (dB/100m)	16.7	23.8	29.3	42.1	48.9	55.0	61.7	75.3
Avg. Power (kW)	1.604	1.125	0.913	0.637	0.548	0.487	0.435	0.356

Mechanical & Environmental

Static Bend Radius	Dynamic Bend Radius	Weight	Operating Temperature
39 mm	78 mm	0.123 kg/m	–55°C ~ +165°C

Features & Benefits

- Low insertion loss
- Low VSWR
- Flex and vibration resistant

Typical Applications

- Laboratory test
- Anechoic chamber test
- System test
- RF / microwave component & module test