

KL-150C — High-Precision Test Cable

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



Structure & Materials

Element	Dimension (mm)	Material
Center Conductor	0.30	Silver-Plated Copper
Dielectric	0.88	Low-Density PTFE
Inner Shield	1.00	Silver-Plated Copper Tape
Middle Layer	1.25	Low-Density PTFE (Reinforcement)
Outer Shield	1.50	Silver-Plated Copper Braid
Outer Jacket	1.85	Gray FEP (Custom Colors Available)

Electrical Properties

Parameter	Value
Operating Frequency	DC – 110 GHz
Cutoff Frequency	128 GHz
Characteristic Impedance	50 Ω
Velocity of Propagation	75%
Shielding Effectiveness	> 90 dB
Dielectric Withstanding Voltage	600 V DC

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

Frequency (MHz)	1000	2000	3000	6000	8000	18000	26500	40000	67000	75000	110000
Attenuation (dB/100m)	113.7	161.6	198.5	282.9	328.0	499.3	611.5	760.4	1002.7	1065.9	1314.3
Avg. Power (kW)	0.039	0.027	0.022	0.016	0.014	0.009	0.007	0.006	0.004	0.004	0.003

Mechanical & Environmental

Static Bend Radius	Dynamic Bend Radius	Weight	Operating Temperature
9.5 mm	19 mm	0.008 kg/m	–55°C ~ +125°C

Features & Benefits

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

Typical Applications

- Airborne electronics
- Electronic warfare (EW)
- Laboratory test
- RF / microwave device test