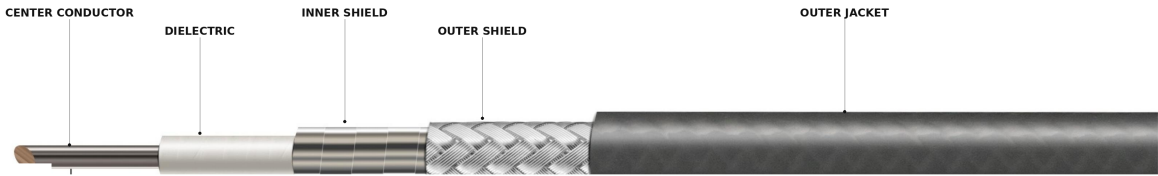


KL-150A — Low-Loss Phase-Stable Coaxial Cable

Low-Loss, Phase-Stable Coaxial Cable — Flexible 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
Outer Shield	1.18	Silver-Plated Copper Braid
Outer Jacket	1.50	Gray PFA (Custom Colors Available)

Electrical Properties

Parameter	Value
Operating Frequency	DC – 40 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	10000	12400	18000	26500	40000
Attenuation (dB/100m)	113.7	161.6	198.5	282.9	328.0	368.0	411.3	499.3	611.5	760.4
Avg. Power (kW)	0.039	0.027	0.022	0.016	0.014	0.012	0.011	0.009	0.007	0.006

Mechanical & Environmental

Static Bend Radius	Dynamic Bend Radius	Weight	Operating Temperature
8 mm	15 mm	0.0054 kg/m	–55°C ~ +125°C

Features & Benefits

- Phase-stable across temperature (<1000 ppm, –55°C to +85°C)
- Low insertion loss
- High power handling
- Low PIM (–155 dBc)
- Lightweight construction

Typical Applications

- Phased-array radar
- Airborne electronics
- Electronic warfare (EW)
- Any application demanding tight loss and phase tolerance