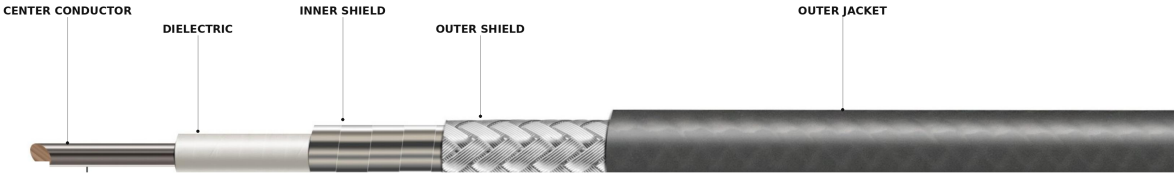


KL-810A — Low-Loss Phase-Stable Coaxial Cable

Low-Loss, Phase-Stable Coaxial Cable — Flexible Construction



Structure & Materials

Element	Dimension (mm)	Material
Center Conductor	2.40	Silver-Plated Copper
Dielectric	6.36	Low-Density PTFE
Inner Shield	6.60	Silver-Plated Copper Tape
Outer Shield	7.10	Silver-Plated Copper Braid
Outer Jacket	8.10	Gray PFA (Custom Colors Available)

Electrical Properties

Parameter	Value
Operating Frequency	DC – 18 GHz
Cutoff Frequency	18 GHz
Characteristic Impedance	50 Ω
Velocity of Propagation	83%
Shielding Effectiveness	> 90 dB
Dielectric Withstanding Voltage	3000 V DC

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

Frequency (MHz)	1000	2000	3000	6000	8000	10000	12400	16000	18000
Attenuation (dB/100m)	13.7	19.5	24.1	34.8	40.6	45.8	51.5	59.3	63.3
Avg. Power (kW)	2.405	1.681	1.360	0.943	0.808	0.716	0.637	0.554	0.519

Mechanical & Environmental

Static Bend Radius	Dynamic Bend Radius	Weight	Operating Temperature
41 mm	81 mm	0.140 kg/m	-55°C ~ +165°C

Features & Benefits

- Phase-stable across temperature (<750 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