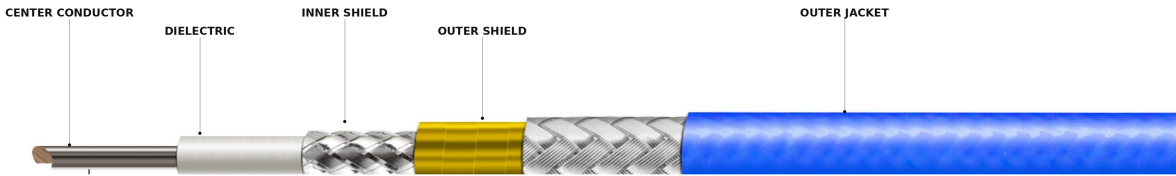


KL-1000B — High-Power Low-Loss Coaxial Cable

High-Power, Low-Loss Coaxial Cable



Structure & Materials

Element	Dimension (mm)	Material
Center Conductor	2.44	Silver-Plated Copper
Dielectric	7.24	Low-Density PTFE
Inner Shield	7.48	Silver-Plated Copper Tape
Middle Layer	7.61	High-Temperature Aluminum Foil
Outer Shield	8.19	Silver-Plated Copper Braid
Outer Jacket	9.30	Blue FEP (Custom Colors Available)

Electrical Properties

Parameter	Value
Operating Frequency	DC – 10 GHz
Cutoff Frequency	15 GHz
Characteristic Impedance	50 Ω
Velocity of Propagation	76%
Shielding Effectiveness	> 90 dB
Dielectric Withstanding Voltage	3000 V DC

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

Frequency (MHz)	1000	2000	3000	4000	5000	6000	7000	8000	9000	10000
Attenuation (dB/100m)	14.7	21.1	26.2	30.6	34.5	38.2	41.5	44.7	47.7	50.6
Avg. Power (kW)	2.485	1.728	1.393	1.194	1.058	0.958	0.880	0.818	0.766	0.722

Mechanical & Environmental

Static Bend Radius	Dynamic Bend Radius	Weight	Operating Temperature
47 mm	93 mm	0.193 kg/m	–55°C ~ +200°C

Features & Benefits

- Low insertion loss
- High power handling
- Low PIM (–155 dBc)
- High cost-performance
- High tensile strength

Typical Applications

- Airborne electronics
- Electronic warfare (EW)
- High-power RF transmission
- Wireless base station internal interconnect
- RF / microwave device testing