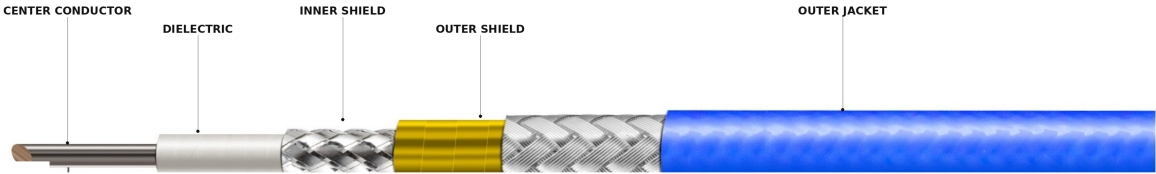


KL-800B — High-Power Low-Loss Coaxial Cable

High-Power, Low-Loss Coaxial Cable



Structure & Materials

Element	Dimension (mm)	Material
Center Conductor	2.06	Silver-Plated Copper
Dielectric	5.89	Low-Density PTFE
Inner Shield	6.05	Silver-Plated Copper Tape
Middle Layer	6.17	High-Temperature Aluminum Foil
Outer Shield	6.81	Silver-Plated Copper Braid
Outer Jacket	7.62	Blue FEP (Custom Colors Available)

Electrical Properties

Parameter	Value
Operating Frequency	DC – 18 GHz
Cutoff Frequency	19 GHz
Characteristic Impedance	50 Ω
Velocity of Propagation	76%
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	16000	18000
Attenuation (dB/100m)	17.6	25.2	31.2	45.1	52.7	59.5	67.1	77.3	82.6
Avg. Power (kW)	1.892	1.098	0.887	0.613	0.524	0.464	0.412	0.358	0.335

Mechanical & Environmental

Static Bend Radius	Dynamic Bend Radius	Weight	Operating Temperature
38 mm	76 mm	0.130 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