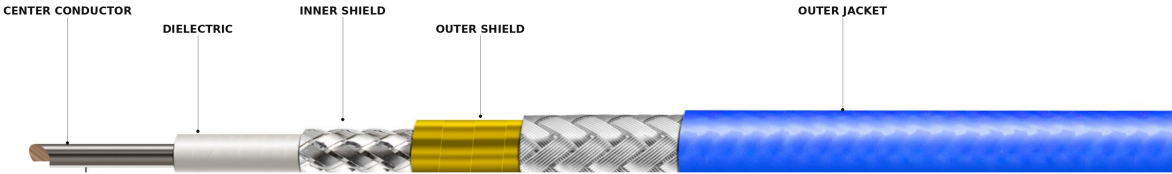


KL-520B — High-Power Low-Loss Coaxial Cable

High-Power, Low-Loss Coaxial Cable



Structure & Materials

Element	Dimension (mm)	Material
Center Conductor	1.29	Silver-Plated Copper
Dielectric	3.85	Low-Density PTFE
Inner Shield	4.05	Silver-Plated Copper Tape
Middle Layer	4.20	High-Temperature Aluminum Foil
Outer Shield	4.80	Silver-Plated Copper Braid
Outer Jacket	5.20	Blue FEP (Custom Colors Available)

Electrical Properties

Parameter	Value
Operating Frequency	DC – 18 GHz
Cutoff Frequency	28 GHz
Characteristic Impedance	50 Ω
Velocity of Propagation	76%
Shielding Effectiveness	> 90 dB
Dielectric Withstanding Voltage	2000 V DC

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

Frequency (MHz)	1000	2000	3000	6000	8000	10000	12400	16000	18000
Attenuation (dB/100m)	27.7	39.5	48.7	69.9	81.3	91.5	102.7	117.8	125.5
Avg. Power (kW)	0.750	0.526	0.426	0.297	0.255	0.227	0.202	0.176	0.165

Mechanical & Environmental

Static Bend Radius	Dynamic Bend Radius	Weight	Operating Temperature
26 mm	52 mm	0.067 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