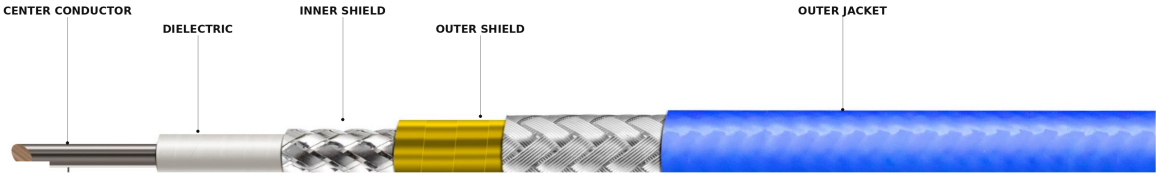


KL-550B — High-Power Low-Loss Coaxial Cable

High-Power, Low-Loss Coaxial Cable



Structure & Materials

Element	Dimension (mm)	Material
Center Conductor	1.45	Silver-Plated Copper
Dielectric	4.18	Low-Density PTFE
Inner Shield	4.42	Silver-Plated Copper Tape
Middle Layer	4.55	High-Temperature Aluminum Foil
Outer Shield	4.95	Silver-Plated Copper Braid
Outer Jacket	5.45	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)	26.3	37.6	46.3	66.6	77.5	87.3	97.9	112.3	119.8
Avg. Power (kW)	0.810	0.567	0.460	0.320	0.275	0.244	0.218	0.190	0.178

Mechanical & Environmental

Static Bend Radius	Dynamic Bend Radius	Weight	Operating Temperature
22 mm	55 mm	0.072 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