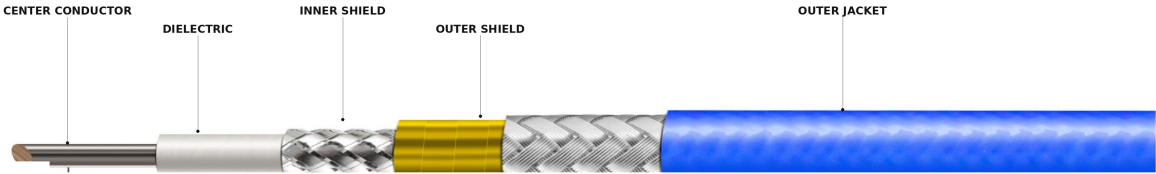


KL-460B — High-Power Low-Loss Coaxial Cable

High-Power, Low-Loss Coaxial Cable



Structure & Materials

Element	Dimension (mm)	Material
Center Conductor	1.02	Silver-Plated Copper
Dielectric	3.07	Low-Density PTFE
Inner Shield	3.27	Silver-Plated Copper Tape
Middle Layer	3.43	High-Temperature Aluminum Foil
Outer Shield	4.00	Silver-Plated Copper Braid
Outer Jacket	4.60	Blue FEP (Custom Colors Available)

Electrical Properties

Parameter	Value
Operating Frequency	DC – 18 GHz
Cutoff Frequency	35 GHz
Characteristic Impedance	50 Ω
Velocity of Propagation	76%
Shielding Effectiveness	> 90 dB
Dielectric Withstanding Voltage	1500 V DC

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

Frequency (MHz)	1000	2000	3000	6000	8000	10000	12400	16000	18000
Attenuation (dB/100m)	35.4	50.4	62.0	88.8	103.2	116.0	129.9	148.7	158.3
Avg. Power (kW)	0.569	0.400	0.324	0.227	0.195	0.174	0.155	0.135	0.127

Mechanical & Environmental

Static Bend Radius	Dynamic Bend Radius	Weight	Operating Temperature
23 mm	46 mm	0.053 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