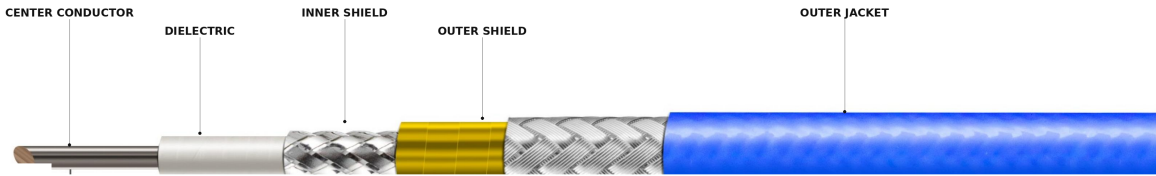


KL-1200B — High-Power Low-Loss Coaxial Cable

High-Power, Low-Loss Coaxial Cable



Structure & Materials

Element	Dimension (mm)	Material
Center Conductor	3.50	Silver-Plated Copper
Dielectric	9.90	Low-Density PTFE
Inner Shield	10.17	Silver-Plated Copper Tape
Middle Layer	10.30	High-Temperature Aluminum Foil
Outer Shield	11.02	Silver-Plated Copper Braid
Outer Jacket	12.00	Blue FEP (Custom Colors Available)

Electrical Properties

Parameter	Value
Operating Frequency	DC – 10 GHz
Cutoff Frequency	11 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	10000
Attenuation (dB/100m)	13.0	18.7	23.3	27.2	30.7	33.9	37.0	39.8	45.2
Avg. Power (kW)	3.323	2.306	1.856	1.588	1.406	1.271	1.167	1.083	0.955

Mechanical & Environmental

Static Bend Radius	Dynamic Bend Radius	Weight	Operating Temperature
60 mm	120 mm	0.300 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