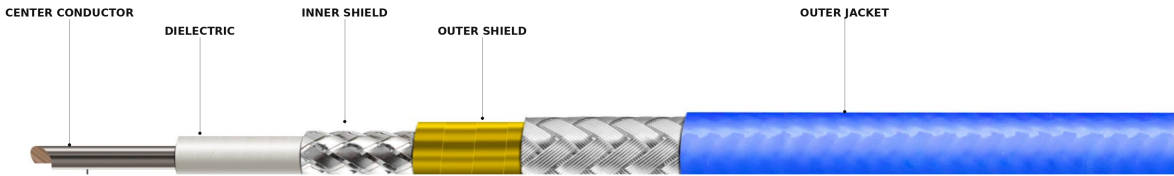


KL-635B — High-Power Low-Loss Coaxial Cable

High-Power, Low-Loss Coaxial Cable



Structure & Materials

Element	Dimension (mm)	Material
Center Conductor	1.57	Silver-Plated Copper
Dielectric	4.72	Low-Density PTFE
Inner Shield	4.96	Silver-Plated Copper Tape
Middle Layer	5.10	High-Temperature Aluminum Foil
Outer Shield	5.66	Silver-Plated Copper Braid
Outer Jacket	6.35	Blue FEP (Custom Colors Available)

Electrical Properties

Parameter	Value
Operating Frequency	DC – 18 GHz
Cutoff Frequency	27 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)	22.2	31.7	39.2	56.4	65.8	74.2	83.4	95.8	102.2
Avg. Power (kW)	1.020	0.713	0.557	0.401	0.344	0.305	0.271	0.236	0.221

Mechanical & Environmental

Static Bend Radius	Dynamic Bend Radius	Weight	Operating Temperature
32 mm	64 mm	0.093 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