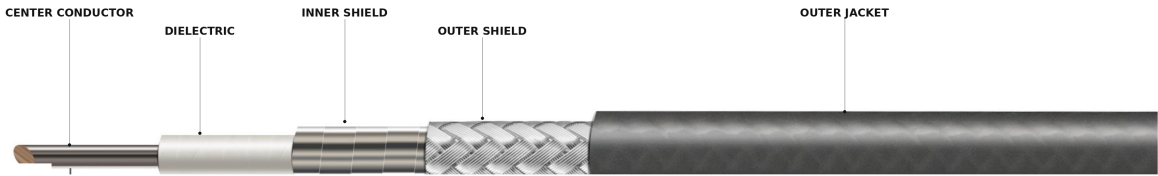


KL-300A — Low-Loss Phase-Stable Coaxial Cable

Low-Loss, Phase-Stable Coaxial Cable — Flexible Construction



Structure & Materials

Element	Dimension (mm)	Material
Center Conductor	0.70	Silver-Plated Copper
Dielectric	1.93	Low-Density PTFE
Inner Shield	2.09	Silver-Plated Copper Tape
Outer Shield	2.74	Silver-Plated Copper Braid
Outer Jacket	3.10	Gray PFA (Custom Colors Available)

Electrical Properties

Parameter	Value
Operating Frequency	DC – 50 GHz
Cutoff Frequency	60 GHz
Characteristic Impedance	50 Ω
Velocity of Propagation	82%
Shielding Effectiveness	> 90 dB
Dielectric Withstanding Voltage	1000 V DC

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

Frequency (MHz)	1000	2000	3000	6000	8000	10000	12400	18000	26500	40000	50000
Attenuation (dB/100m)	46.8	66.6	81.9	117.1	135.9	152.6	170.8	207.9	255.4	318.9	360.1
Avg. Power (kW)	0.407	0.286	0.232	0.163	0.140	0.125	0.111	0.092	0.075	0.060	0.053

Mechanical & Environmental

Static Bend Radius	Dynamic Bend Radius	Weight	Operating Temperature
16 mm	31 mm	0.027 kg/m	–55°C ~ +165°C

Features & Benefits

- Phase-stable across temperature (<750 ppm, –55°C to +85°C)
- Low insertion loss
- High power handling
- Low PIM (–155 dBc)
- Lightweight construction

Typical Applications

- Phased-array radar
- Airborne electronics
- Electronic warfare (EW)
- Any application demanding tight loss and phase tolerance