

KL-760AS — Low-Loss Phase-Stable Coaxial Cable

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



Structure & Materials

Element	Dimension (mm)	Material
Center Conductor	2.39	Silver-Plated Stranded Copper
Dielectric	6.25	Low-Density PTFE
Inner Shield	6.49	Silver-Plated Copper Tape
Outer Shield	7.06	Silver-Plated Copper Braid
Outer Jacket	7.65	Gray PFA (Custom Colors Available)

Electrical Properties

Parameter	Value
Operating Frequency	DC – 18 GHz
Cutoff Frequency	18 GHz
Characteristic Impedance	50 Ω
Velocity of Propagation	83%
Shielding Effectiveness	> 90 dB
Dielectric Withstanding Voltage	2500 V DC

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

Frequency (MHz)	1000	2000	3000	6000	8000	10000	12400	16000	18000
Attenuation (dB/100m)	16.7	23.8	29.3	42.1	48.9	55.0	61.7	70.7	75.3
Avg. Power (kW)	1.604	1.125	0.913	0.637	0.548	0.487	0.435	0.379	0.356

Mechanical & Environmental

Static Bend Radius	Dynamic Bend Radius	Weight	Operating Temperature
38 mm	76 mm	0.120 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