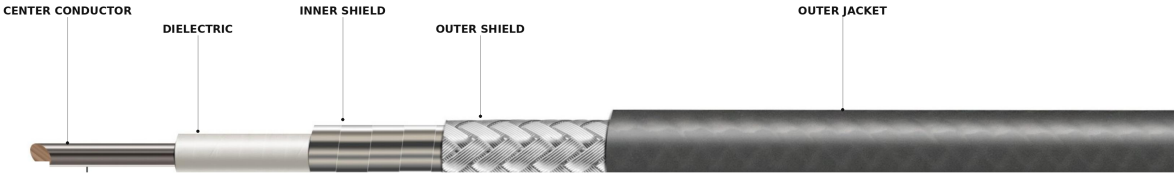


KL-600A — Low-Loss Phase-Stable Coaxial Cable

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



Structure & Materials

Element	Dimension (mm)	Material
Center Conductor	1.70	Silver-Plated Copper
Dielectric	4.60	Low-Density PTFE
Inner Shield	4.80	Silver-Plated Copper Tape
Outer Shield	5.30	Silver-Plated Copper Braid
Outer Jacket	6.00	Gray PFA (Custom Colors Available)

Electrical Properties

Parameter	Value
Operating Frequency	DC – 18 GHz
Cutoff Frequency	25 GHz
Characteristic Impedance	50 Ω
Velocity of Propagation	83%
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)	20.0	28.5	35.2	50.6	58.9	66.4	74.5	85.5	91.2
Avg. Power (kW)	1.452	1.017	0.824	0.573	0.492	0.437	0.389	0.339	0.318

Mechanical & Environmental

Static Bend Radius	Dynamic Bend Radius	Weight	Operating Temperature
30 mm	60 mm	0.079 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