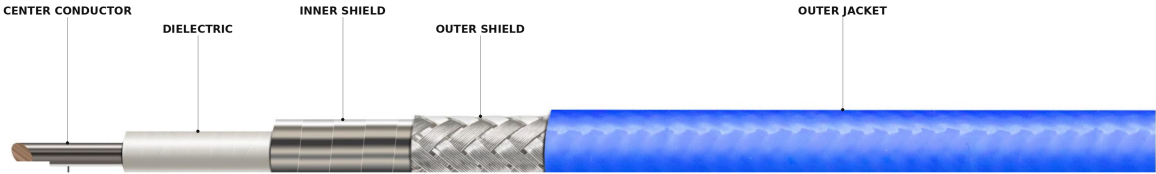


KL-1200A — Low-Loss Phase-Stable Coaxial Cable

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



Structure & Materials

Element	Dimension (mm)	Material
Center Conductor	3.80	Silver-Plated Copper
Dielectric	10.30	Low-Density PTFE
Inner Shield	—	N/A (Single-Braid Construction)
Outer Shield	11.35	Silver-Plated Copper Braid
Outer Jacket	12.00	FEP (Custom Colors Available)

Electrical Properties

Parameter	Value
Operating Frequency	DC – 8 GHz
Cutoff Frequency	11 GHz
Characteristic Impedance	50 Ω
Velocity of Propagation	83%
Shielding Effectiveness	> 90 dB
Dielectric Withstanding Voltage	3500 V DC

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

Frequency (MHz)	1000	2000	3000	4000	5000	6000	7000	8000
Attenuation (dB/100m)	10.0	14.4	18.0	21.0	23.8	26.3	28.7	31.0
Avg. Power (kW)	4.447	3.076	2.470	2.110	1.865	1.685	1.544	1.432

Mechanical & Environmental

Static Bend Radius	Dynamic Bend Radius	Weight	Operating Temperature
60 mm	120 mm	0.282 kg/m	–55°C ~ +105°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