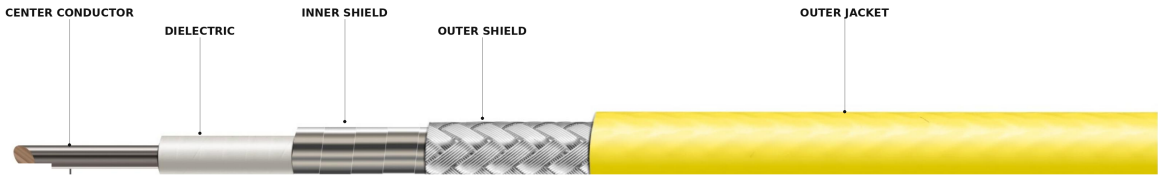


KL-480AB — Low-Loss Phase-Stable Coaxial Cable

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



Structure & Materials

Element	Dimension (mm)	Material
Center Conductor	1.30	Silver-Plated Copper
Dielectric	3.58	Low-Density PTFE
Inner Shield	3.73	Silver-Plated Copper Tape
Outer Shield	4.27	Silver-Plated Copper Braid
Outer Jacket	4.83	Yellow FEP (Custom Colors Available)

Electrical Properties

Parameter	Value
Operating Frequency	DC – 26.5 GHz
Cutoff Frequency	33 GHz
Characteristic Impedance	50 Ω
Velocity of Propagation	83%
Shielding Effectiveness	> 90 dB
Dielectric Withstanding Voltage	1500 V DC

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

Frequency (MHz)	1000	2000	3000	6000	8000	10000	12400	18000	26500
Attenuation (dB/100m)	25.2	36.0	44.4	63.8	74.3	83.7	94.0	115.1	142.4
Avg. Power (kW)	0.749	0.525	0.425	0.296	0.254	0.225	0.201	0.164	0.133

Mechanical & Environmental

Static Bend Radius	Dynamic Bend Radius	Weight	Operating Temperature
24 mm	48 mm	0.050 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