

KL-480AW — Solid-Type Phase-Stable Coaxial Cable

Solid-Type, Low-Loss, Phase-Stable Coaxial Cable — Reinforced Construction



Structure & Materials

Element	Dimension (mm)	Material
Center Conductor	1.40	Silver-Plated Copper
Dielectric	3.75	Low-Density PTFE
Inner Shield	3.95	Silver-Plated Copper Tape
Middle Layer	4.20	Low-Density PTFE (Reinforcement)
Outer Shield	4.65	Silver-Plated Copper Braid
Outer Jacket	5.10	Gray/Green PFA or FEP (Custom Colors Available)

Electrical Properties

Parameter	Value
Operating Frequency	DC – 26.5 GHz
Cutoff Frequency	31 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)	24.1	34.2	42.1	60.1	69.7	78.3	87.6	106.6	130.8
Avg. Power (kW)	1.050	0.738	0.600	0.420	0.362	0.323	0.288	0.237	0.193

Mechanical & Environmental

Static Bend Radius	Dynamic Bend Radius	Weight	Operating Temperature
26 mm	51 mm	0.058 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