

KL-360AW — Solid-Type Phase-Stable Coaxial Cable

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



Structure & Materials

Element	Dimension (mm)	Material
Center Conductor	0.91	Silver-Plated Copper
Dielectric	2.50	Low-Density PTFE
Inner Shield	2.66	Silver-Plated Copper Tape
Middle Layer	2.95	Low-Density PTFE (Reinforcement)
Outer Shield	3.35	Silver-Plated Copper Braid
Outer Jacket	3.90	Gray/Green PFA or FEP (Custom Colors Available)

Electrical Properties

Parameter	Value
Operating Frequency	DC – 40 GHz
Cutoff Frequency	46 GHz
Characteristic Impedance	50 Ω
Velocity of Propagation	82%
Shielding Effectiveness	> 90 dB
Dielectric Withstanding Voltage	1000 V DC

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

Frequency (MHz)	1000	2000	3000	6000	8000	10000	12400	18000	26500	40000
Attenuation (dB/100m)	37.5	53.4	65.6	93.8	108.9	122.3	136.9	166.7	204.8	255.7
Avg. Power (kW)	0.509	0.358	0.291	0.203	0.175	0.156	0.139	0.115	0.093	0.075

Mechanical & Environmental

Static Bend Radius	Dynamic Bend Radius	Weight	Operating Temperature
19.5 mm	39 mm	0.035 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