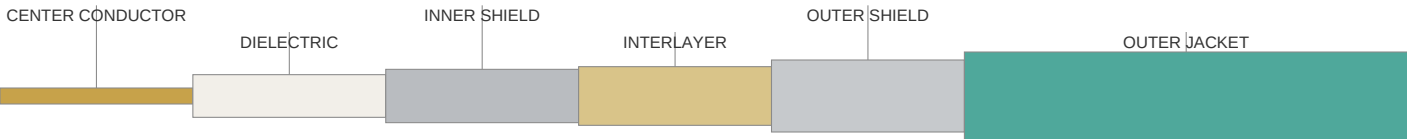


KL-1143A — Low-Loss Coaxial Cable

Low-Loss, Extended-Temperature Coaxial Cable — Flexible Construction



Structure & Materials

Element	Dimension (mm)	Material
Center Conductor	3.38	Silver-Plated Copper, 7/048" Stranded
Dielectric	9.14	Expanded PTFE Tape
Inner Shield	9.35	Silver-Plated Copper Strip (Flat Braid)
Interlayer	9.5	Aluminum-Polyester Tape (Metallized Shield)
Outer Shield	10.01	Silver-Plated Copper Braid (Round Wire)
Outer Jacket	11.43	FEP (Custom Colors Available)

Electrical Properties

Parameter	Value
Operating Frequency	DC – 10 GHz
Characteristic Impedance	50 Ω
Velocity of Propagation	80%
Shielding Effectiveness	> 95 dB

Attenuation (Typical, 25°C)

Frequency (MHz)	400	1000	2000	3000	5000	10000
Attenuation (dB/100m)	6.9	11.5	16.7	20.7	27.6	40.7

Mechanical & Environmental

Static Bend Radius	Weight	Operating Temperature	Peak Power Rating
57.15 mm	0.2679 kg/m	–55°C ~ +200°C	12.8 kW

Features & Benefits

- Low attenuation — 20–35% below comparable mil-spec cables of similar size
- Extended operating temperature range (–55°C to +200°C)
- High shielding effectiveness (> 95 dB)
- Thermally stable expanded-PTFE dielectric — low phase shift vs. temperature

Typical Applications

- Phased-array & airborne radar
- Electronic warfare (EW) systems
- Military communication systems
- High-temperature RF environments