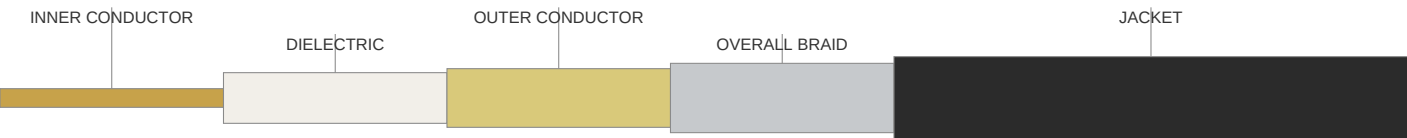


KL-610AW — All-Weather Flexible Coaxial Cable

UltraFlex, Repeated-Flex Coaxial Cable — Reinforced Outdoor Construction



Structure & Materials

Element	Dimension (mm)	Material
Inner Conductor	1.42	Stranded Bare Copper
Dielectric	3.81	Foam Polyethylene
Outer Conductor	3.94	Aluminum Tape
Overall Braid	4.52	Tinned Copper
Jacket	6.10	Black Thermoplastic Elastomer

Electrical Properties

Parameter	Value
Cutoff Frequency	31 GHz
Characteristic Impedance	50 Ω
Velocity of Propagation	84%
Capacitance	79.4 pF/m
Shielding Effectiveness	> 90 dB
Dielectric Withstanding Voltage	1500 V DC

Attenuation & Power Handling (Typical)

Frequency (MHz)	150	450	900	1500	2000	2500	5800
Attenuation (dB/100m)	11.9	20.8	29.8	38.9	45.2	50.9	80.1
Avg. Power (kW)	0.55	0.31	0.22	0.17	0.14	0.13	0.08

Mechanical & Environmental

Bend Radius (Install / Repeated)	Weight	Operating Temperature	Peak Power Rating
19.1 / 63.5 mm	0.051 kg/m	−40°C ~ +85°C	5.6 kW

Features & Benefits

- Stranded center conductor for repeated-flex durability
- Low loss — comparable to semi-rigid cable of similar size
- RF shielding > 90 dB (bonded foil + braid composite)
- Weather-resistant elastomer jacket, 10+ year outdoor life
- Tight installation bend radius (19.1 mm)

Typical Applications

- Antenna feeder & jumper assemblies
- Field-deployed, repeated-flex installations
- Outdoor communications & GPS systems
- Any application requiring frequent flexing