

KL-400C — High-Precision Test Cable

High-Precision Test Cable — Flexible, Low-VSWR Construction



Structure & Materials

Element	Dimension (mm)	Material
Center Conductor	1.02	Silver-Plated Stranded Copper
Dielectric	2.80	Low-Density PTFE
Inner Shield	2.95	Silver-Plated Copper Tape
Middle Layer	3.20	Low-Density PTFE (Reinforcement)
Outer Shield	3.62	Silver-Plated Copper Braid
Outer Jacket	4.20	Blue FEP (Custom Colors Available)

Electrical Properties

Parameter	Value
Operating Frequency	DC – 40 GHz
Cutoff Frequency	41 GHz
Characteristic Impedance	50 Ω
Velocity of Propagation	81%
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	40000
Attenuation (dB/100m)	40.5	57.6	70.8	100.8	116.9	131.2	146.6	178.0	218.0	271.2
Avg. Power (kW)	0.743	0.523	0.426	0.299	0.258	0.230	0.205	0.169	0.138	0.111

Mechanical & Environmental

Static Bend Radius	Dynamic Bend Radius	Weight	Operating Temperature
21 mm	42 mm	0.040 kg/m	–55°C ~ +165°C

Features & Benefits

- Low insertion loss
- Low VSWR
- Flex and vibration resistant

Typical Applications

- Laboratory test
- Anechoic chamber test
- System test
- RF / microwave component & module test