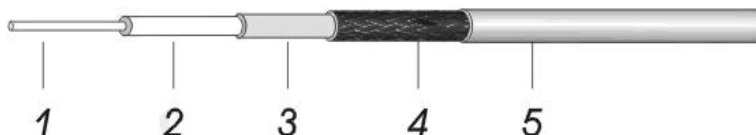


# LQ 100

## 50 Ohm Coaxial Cable



### PHYSICAL DIMENSION

	Material	Diameter(mm)
1. Inner Conductor	Bare Copper	0.46
2. Dielectric	Solid PE	1.52
3. 1st Outer Conductor	Bonded Aluminum Foil	1.65
4. 2nd Outer Conductor	Tinned Copper Braid	2.11
5. Jacket	PVC or PE	2.79

### ELECTRICAL & MECHANICAL PROPERTIES

Capacitance (pF/m)	50
Impedance(ohms)	101.1
Velocity of Propagation(%)	66
Inner Conductor DC Resistance( $\Omega$ /km)	266
Outer Conductor DC Resistance( $\Omega$ /km)	31.2
Shielding Effectiveness( $\geq$ dB)	90
Storage Temperature( $^{\circ}$ C)	-25~+70
Installation Temperature( $^{\circ}$ C)	-25~+70
Operation Temperature( $^{\circ}$ C)	-25~+70
Min. Bending Radius(mm)	6.4
VSWR $\leq$ (Return loss $\geq$ dB)	1.20 (20)

### ATTENUATION (20 $^{\circ}$ C)

Frequency(MHz)	Attenuation(dB/100m)	Frequency(MHz)	Attenuation(dB/100m)
30	12.9	900	74.9
50	16.7	1500	98.7
150	29.4	1800	109.0
220	35.8	2000	115.5
450	51.9	2500	130.6