



LWC-195 SUPER LOW LOSS COAXIAL CABLE

Inner Conductor	Solid Bare Copper	0.037 inch	0.94 mm
Dielectric	Foam Polyethylene	0.110 inch	2.79 mm
Outer Conductor	Aluminium Tape	0.116 inch	2.95 mm
Overall Braid	Tinned Copper	0.139 inch	3.53 mm
Jacket	Black Polyethylene	0.195 inch	4.95 mm

Mechanical Specifications

Bend Radius	Installation: 12.7 mm	Repeated: 50.8 mm
Bending Moment	0.27 N-m	
Weight	30 grams per metre	
Tensile Strength	0.27 N-m	
Operating Temperature	-40°C to +85°C	

Electrical Specifications

Cutoff Frequency	41 GHz	Impedance	50 Ohms
Velocity of Propagation	80 %	Capacitance	83.3 pF/m
Dielectric Constant	1.56	Inductance	0.21 uH/m
Time Delay	4.17 nS/m	Shielding Effectiveness	> 90 dB
DC Resistance	Inner Conductor: 24.9 ohms/km	Outer Conductor: 6.1 ohms/km	
Voltage Withstand	1000 Volts DC		
Jacket Spark	3000 Volts RMS		
Peak Power	2.5 kW		

Attenuation		Per 100 feet	Per 100 metres	Average Power
Frequency	30 MHz	2.0 dB	6.5 dB	0.89 kW
	50 MHz	2.5 dB	8.4 dB	0.68 kW
	150 MHz	4.4 dB	14.6 dB	0.39 kW
	220 MHz	5.4 dB	17.7 dB	0.32 kW
	450 MHz	7.8 dB	25.5 dB	0.22 kW
	900 MHz	11.1 dB	36.5 dB	0.16 kW
	1500 MHz	14.5 dB	47.7 dB	0.12 kW
	1800 MHz	16.0 dB	52.5 dB	0.11 kW
	2000 MHz	16.9 dB	55.4 dB	0.10 kW
	2500 MHz	19.0 dB	62.4 dB	0.09 kW
	5000 MHz	29.9 dB	98.1 dB	0.06 kW