



LOW LOSS COAXIAL CABLE	5002LD		
DIMENSIONS			
Center Conductor Diameter (inch)	0.0224		
(mm)	0.57		
Dielectric Diameter (inch)	0.064		
(mm)	1.63		
Diameter over Foil (inch)	0.07		
(mm)	1.76		
Diameter over Braid (inch)	0.085		
(mm)	2.15		
Jacket Diameter (inch)	0.104		
(mm)	2.64		
MATERIAL SPECIFICATIONS			
Jacket	FEP		
Braid	Round silver plated copper		
Foil	Flat silver plated copper foil		
Dielectric	LD PTFE		
Center Conductor	Solid silver plated copper		
ELECTRICAL CHARACTERISTICS			
Impedance	50±2		
Capacitance (Nominal) (pF/ft)	29.4		
(pF/m)	96.4		
Velocity of Propagation (%)	80		
Cutt Off Frequency (GHz)	63		
Shielding Effectiveness	> -110dB		
Max. Attenuation (dB/100Ft)	Attenuation		Power
Max Power (Watts)	dB/100Ft	dB/100M	
400MHz	11.6	38	240
1GHz	18.3	60	160
3GHz	33.9	111	80
5GHz	42.7	140	57
10GHz	60.1	197	44
18GHz	82.4	270	33
25GHz	97.6	320	29
30GHz	108.3	355	26
35GHz	118	387	23
40GHz	129.3	424	22
45GHz	142.7	468	20
50GHz	157.1	515	18
MECHANICAL CHARACTERISTICS			
Max. Operating Temperature (°C)	-55/ +200		
Min. Bend Radius	Static		Dynamic
(inch)	0.25		0.6
(mm)	6.35		15
Weight (g/Ft)	6		
(g/M)	19.7		

*Cable wrapped around a 5 cm diameter mandrel

This part number complies with RoHS.