

**Low Loss Coaxial Cable Specification**

Specification		400 SERIES	Construction DWG.	
Construction Item		Component		
Inner Conductor	Diameter	.108" [2.74mm]		
	Material	Copper Clad Aluminum		
Dielectric	Diameter	.285" [7.24mm]		
	Material	Physical Foam Polyethylene		
Foil Shield	Diameter	.291" [7.39mm]		
	Material	Aluminum Foil/Poly Tape		
Braid Shield	Diameter	.320" [8.13mm]		
	Material	Tinned Copper Braid		
Jacket	Diameter	.405" [10.29mm]		
	Material	UV Resistant Polyethylene		
	Color	Black		
<b>Electrical Characteristics</b>		<b>Attenuation (Typical)</b>		
Capacitance (pF/m)	77.1	Frequency (MHz)	Attenuation dB (100m / 100ft)	
Impedance (Ohms)	50	30	2.2 / 0.7	
Velocity (%)	85	50	2.9 / 0.9	
Center Conductor Resistance (Ω/km)	4.6	150	5.0 / 1.5	
		220	6.10 / 1.86	
Outer Conductor Resistance (Ω/km)	6.88	450	8.9 / 2.7	
		900	12.8 / 3.9	
Shielding Effectiveness (dB)	>90	1500	16.8 / 5.13	
Cutoff Frequency (GHz)	16.2	1800	18.6 / 5.67	
Peak Power (kW)	16	2000	19.6 / 6.0	
		2500	22.2 / 6.8	
		5800	35.5 / 10.8	
<b>Mechanical and Environmental Characteristics</b>				
Min. Bending Radius (Static)	1.0"[25.4mm]	Tensile Strength (kg/lb)	72.6 / 160	
Min. Bend Radius: (Repeat)	4.0" [101.6mm]			
Operating Temp (°C)	-40°C to +80°C	Cable Weight(kg/m)(lb/ft)	.099 / .068	
<b>Listings/Ratings:</b> ROHS				
<b>Packaging:</b> CABLE PACKAGED ON BULK REELS (EX. 500 FT REEL, 1000 FT REEL) SHALL BE ONE CONTINUOUS PIECE OF CABLE. USING INDIVIDUAL CABLE SPLICES TO MAKE A REQUIRED BULK REEL LENGTH IS NOT ACCEPTABLE. CABLE LENGTH TOLERANCE = +5% / -0%				

