



LOW LOSS COAXIAL CABLE		5002					
DIMENSIONS							
Center Conductor Diameter (inch)						0.0201	
(mm)						0.51	
Dielectric Diameter (inch)						0.064	
(mm)						1.63	
Diameter Over Braid (inch)						0.070	
(mm)						1.78	
Diameter Over Foil (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						Solid PTFE	
Center Conductor						Solid silver plated copper Clad Steel	
ELECTRICAL CHARACTERISTICS							
Impedance						50±2	
Capacitance (Nominal) (pF/ft)						29.4	
(pF/m)						96.4	
Velocity of Propagation (%)						70	
Operating Frequency (GHz)						70	
Shielding Effectiveness						> -110dB	
Max. Attenuation	Attenuation		Power				
Max Power (Watts)	dB/100ft	dB/100M					
400MHz	14	45.9	240				
1GHz	23	75.4	160				
3GHz	39	127.9	80				
5GHz	52	170.6	57				
10GHz	80	262.4	44				
18GHz	110	360.8	33				
25GHz	131	429.7	29				
30GHz	146	478.9	26				
35GHz	160	524.8	23				
40GHz	173	567.4	22				
45GHz	183	600.2	20				
50GHz	195	639.6	18				
55GHz	212	681	17				
60GHz	221	724	16				
65GHz	234	768	15				
70GHz	245	803	14				
Operating Frequency	18GHz	26.5GHz	40GHz	50GHz	70GHz		
Phase Stability v.s. Bending ¹	±1.0° typ/ ±1.5° max	±1.5° typ/ ±2.0° max	±2° typ/ ±3.5° max	±3° typ/ ±8° max	±5° typ/ ±10° max		
Amplitude Stability v.s. Bending ²	±°0.015dB typ/ ±0.03dB max	±°0.02dB typ/ ±0.04dB max	±°0.03dB typ/ ±0.06dB max	±°0.04dB typ/ ±0.08dB max	±°0.05dB typ/ ±0.10dB max		
MECHANICAL CHARACTERISTICS							
Max. Operating Temperature (°C)						-55/ +200	
Min. Bend Radius	Static		Dynamic				
(inch)	0.2		1.18				
(mm)	5.1		30				
Flex Life Cycles ³	N/A		≥ 10000				
Weight (g/Ft) (g/M)						6 19.7	

¹ Per IEC 60966-1, section 8.6, method1.

² Per IEC 60966-1, section 8.4

³ Per IEC 60966-1, section 9.3

This part number complies with RoHS.

Notice: JYEBAO reserves the right to make modifications deemed appropriate.

Phase Change versus Temperature (5002)

