



LOW LOSS COAXIAL CABLE		5005			
<b>DIMENSIONS</b>					
Center Conductor Diameter (inch)	0.051				
(mm)	1.3				
Dielectric Diameter (inch)	0.141				
(mm)	3.57				
Inner Braid Diameter (inch)	0.148				
(mm)	3.77				
Diameter over Interlayer (inch)	0.152				
(mm)	3.87				
Diameter over Outer Braid (inch)	0.171				
(mm)	4.35				
Jacket Diameter (inch)	0.195				
(mm)	4.95				
<b>MATERIAL SPECIFICATIONS</b>					
Jacket	FEP				
Outer Braid	Round silver plated copper				
Interlayer	Aluminum polyester				
Inner Braid	Flat silver plated copper strip				
Dielectric	Expanded PTFE tape				
Center Conductor	Solid silver plated copper				
<b>ELECTRICAL CHARACTERISTICS</b>					
Impedance	50±2				
Capacitance (Nominal) (pF/ft)	25				
(pF/m)	82				
Velocity of Propagation (%)	80				
Cutt Off Frequency (GHz)	32.9				
Shielding Effectiveness	> -90dB				
Typical Attenuation (dB/100Ft)	Attenuation		Power		
Max Power (Watts)	dB/100Ft	dB/100M			
400MHz	5.79	19	1200		
1GHz	8.84	29	720		
3GHz	15.55	51	400		
5GHz	20.12	66	310		
10GHz	28.96	95	220		
18GHz	41.16	135	150		
20GHz	43.60	143	140		
23GHz	49.39	162	130		
25GHz	50.30	165	125		
26.5GHz	53.35	175	122		
<b>Operating Frequency</b>	<b>3GHz</b>	<b>6GHz</b>	<b>12.4GHz</b>	<b>18GHz</b>	<b>26.5GHz</b>
Phase Stability v.s. Bending <sup>1</sup>	±0.3° typ/ ±0.5° max	±0.5° typ/ ±1.0° max	±0.75° typ/ ±1.5° max	±1° typ/ ±2° max	±1.5° typ/ ±3° max
Amplitude Stability v.s. Bending <sup>2</sup>	±°0.01dB typ/ ±0.02dB max	±°0.02dB typ/ ±0.04dB max	±°0.03dB typ/ ±0.05dB max	±°0.05dB typ/ ±0.10dB max	±°0.10dB typ/ ±0.15dB max
<b>MECHANICAL CHARACTERISTICS</b>					
Max. Operating Temperature (°C)	-55/ +200				
Min. Bend Radius (inch)	Static		Dynamic		
(mm)	0.63		2.76		
	16		70		
Flex Life Cycles <sup>3</sup>	N/A		≥ 10000		
Weight (g/Ft)	18				
(g/M)	59				

<sup>1</sup> Per IEC 60966-1, section 8.6, method1.

<sup>2</sup> Per IEC 60966-1, section 8.4

<sup>3</sup> Per IEC 60966-1, section 9.3

This part number complies with RoHS.

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