

CFE500

Flexible, Low-Loss,
Economy Coaxial Cable



Structure & Dimension													
	Structure	Dimension (mm)	Material										
1	Inner Conductor	1.45	Silver Plated Copper										
2	Insulating	4.20	LD-PTFE										
3	Outer Conductor	4.32	Self-adhesive Al Foil										
4	Shielding	4.65	Silver Plated Copper										
5	Jacket	5.10	FEP										
Specification													
1	Operating Frequency (GHz)	18											
2	Impedance (Ohms)	50											
3	Phase Stability	$\leq \pm 9^\circ$ @ 18 GHz											
4	Phase Stability (Temperature)	< 1400 PPM @ $-55^\circ\text{C} \sim +85^\circ\text{C}$											
5	Amplitude Stability	$\leq \pm 0.1$ dB @ 18 GHz											
6	Velocity of Propagation	76%											
7	Voltage Withstand (V,DC)	1500											
8	Shielding Effectiveness (dB)	> 90											
9	Weight (g/m)	60											
10	Single Bend Radius (mm)	25.00											
11	Repeated Bend Radius (mm)	51.00											
12	Temperature Range ($^\circ\text{C}$)	$-55 \sim +125$											
Attenuation VS. Frequency													
Frequency (MHz)	1000	2000	4000	6000	8000	10000	12400	16000	18000				
Attenuation (dB/m)	0.238	0.343	0.498	0.621	0.729	0.827	0.934	1.082	1.159				
Average Power (KW)	0.766	0.532	0.366	0.293	0.250	0.220	0.195	0.168	0.157				