

# 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	$\leq \pm 9^\circ$ @18GHz
4	Phase Stability (Temperature)	$< 1400\text{PPM}$ @ $-55^\circ\text{C} \sim +85^\circ\text{C}$
5	Amplitude Stability	$\leq \pm 0.1\text{dB}$ @18GHz
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 VS. Power

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



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