

CFE800

Flexible, Low-Loss,
Economy Coaxial Cable



Structure & Dimension

	Structure	Dimension (mm)	Material
1	Inner Conductor	2.30	Silver Plated Copper
2	Insulating	6.80	LD-PTFE
3	Outer Conductor	6.95	Self-adhesive Al Foil
4	Shielding	7.50	Silver Plated Copper
5	Jacket	8.10	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	$\leq \pm 0.1\text{dB}@18\text{GHz}$
6	Velocity of Propagation	76%
7	Voltage Withstand (V, DC)	2000
8	Shielding Effectiveness (dB)	> 90
9	Weight (g/m)	120
10	Single Bend Radius (mm)	40.00
11	Repeated Bend Radius (mm)	81.00
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)	0.151	0.218	0.319	0.401	0.473	0.538	0.610	0.710	0.763
Average Power (KW)	1.674	1.155	0.790	0.629	0.534	0.469	0.413	0.355	0.331



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