

# CFS800

Flexible, Ultra Low-Loss,  
Phase & Amplitude Stable Coaxial Cable



## Structure & Dimension

	Structure	Dimension (mm)	Material
1	Inner Conductor	2.30	Silver Plated Copper
2	Insulating	6.20	LD-PTFE
3	Outer Conductor	6.44	Silver Plated Copper Ribbon
4	Shielding	7.20	Silver Plated Copper
5	Jacket	7.90	PFA

## Specification

1	Operating Frequency (GHz)	18
2	Impedance (Ohms)	50
3	Phase Stability	$\leq \pm 2^\circ$ @10GHz; $\leq \pm 3^\circ$ @18GHz
4	Phase Stability (Temperature)	$< 750\text{PPM}$ @ $-55^\circ\text{C} \sim +85^\circ\text{C}$
5	Amplitude Stability	$\leq \pm 0.1\text{dB}$ @18GHz
6	Velocity of Propagation	83%
7	Voltage Withstand (V, DC)	2500
8	Shielding Effectiveness (dB)	$> 90$
9	Weight (g/m)	130
10	Single Bend Radius (mm)	39.00
11	Repeated Bend Radius (mm)	79.00
12	Temperature Range ( $^\circ\text{C}$ )	$-55 \sim +165$

## Attenuation VS. Frequency VS. Power

Frequency (MHz)	100	300	500	1000	2000	3000	4000	6000	8000	10000	12400	18000
Attenuation (dB/m)	0.046	0.080	0.104	0.148	0.210	0.260	0.301	0.373	0.434	0.488	0.548	0.670
Average Power (KW)	5.817	3.341	2.579	1.812	1.270	1.030	0.887	0.717	0.616	0.547	0.488	0.399



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