

# CFS810

Flexible, Ultra Low-Loss,

Phase & Amplitude Stable Coaxial Cable



## Structure & Dimension

	Structure	Dimension (mm)	Material
1	Inner Conductor	2.40	Silver Plated Copper
2	Insulating	6.36	LD-PTFE
3	Outer Conductor	6.60	Silver Plated Copper Ribbon
4	Shielding	7.10	Silver Plated Copper
5	Jacket	8.10	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	$\leq \pm 0.1\text{dB}@18\text{GHz}$
6	Velocity of Propagation	83%
7	Voltage Withstand (V, DC)	2500
8	Shielding Effectiveness (dB)	$> 90$
9	Weight (g/m)	140
10	Single Bend Radius (mm)	40.00
11	Repeated Bend Radius (mm)	81.00
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)	0.042	0.074	0.096	0.137	0.195	0.241	0.281	0.348	0.406	0.458	0.515	0.633
Average Power (KW)	6.108	3.503	2.701	1.894	1.324	1.071	0.921	0.742	0.636	0.564	0.502	0.409



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