

# 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	$\leq \pm 2^\circ @ 10 \text{ GHz}$ ; $\leq \pm 3^\circ @ 18 \text{ GHz}$											
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													
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	