

CFS310

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



Structure & Dimension												
	Structure	Dimension (mm)	Material									
1	Inner Conductor	0.70	Silver Plated Copper									
2	Insulating	1.93	LD-PTFE									
3	Outer Conductor	2.09	Silver Plated Copper Ribbon									
4	Shielding	2.66	Silver Plated Copper									
5	Jacket	3.10	PFA									
Specification												
1	Operating Frequency (GHz)	50										
2	Impedance (Ohms)	50										
3	Phase Stability	$\leq \pm 3^\circ$ @ 18 GHz ; $\leq \pm 5^\circ$ @ 26.5 GHz										
4	Phase Stability (Temperature)	< 750 PPM @ -55°C ~ +85°C										
5	Amplitude Stability	$\leq \pm 0.1$ dB @ 18 GHz										
6	Velocity of Propagation	82%										
7	Time Delay (ns/m)	500										
8	Capacitance (pF/m)	> 90										
9	Shielding Effectiveness (dB)	29										
10	Weight (g/m)	15.00										
11	Minimum Bend Radius (mm)	31.00										
12	Temperature Range (°C)	-55 ~ +165										
Attenuation VS. Frequency												
Frequency (MHz)	100	300	1000	2000	4000	6000	8000	10000	18000	26500	40000	50000
Attenuation (dB/m)	0.147	0.255	0.468	0.666	0.950	1.171	1.359	1.527	2.079	2.554	3.189	3.601
Average Power (KW)	1.301	0.748	0.407	0.286	0.201	0.163	0.140	0.125	0.092	0.075	0.060	0.053