

CFS360

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



Structure & Dimension												
	Structure	Dimension (mm)	Material									
1	Inner Conductor	0.91	Silver Plated Copper									
2	Insulating	2.50	LD-PTFE									
3	Outer Conductor	2.66	Silver Plated Copper Ribbon									
4	Shielding	3.11	Silver Plated Copper									
5	Jacket	3.60	PFA									
Specification												
1	Operating Frequency (GHz)	40										
2	Impedance (Ohms)	50										
3	Phase Stability	$\leq \pm 3^\circ @ 18 \text{ GHz}$; $\leq \pm 5^\circ @ 26.5 \text{ GHz}$										
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	82%										
7	Voltage Withstand (V,DC)	500										
8	Shielding Effectiveness (dB)	> 90										
9	Weight (g/m)	33										
10	Single Bend Radius (mm)	18.00										
11	Repeated Bend Radius (mm)	36.00										
12	Temperature Range ($^\circ\text{C}$)	$-55 \sim +165$										
Attenuation VS. Frequency												
Frequency (MHz)	100	300	1000	3000	6000	8000	10000	12400	14000	18000	26500	40000
Attenuation (dB/m)	0.117	0.204	0.375	0.657	0.938	1.089	1.224	1.369	1.460	1.667	2.048	2.557
Average Power (KW)	1.626	0.936	0.509	0.291	0.203	0.176	0.156	0.139	0.131	0.115	0.093	0.075