

CFS220

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



Structure & Dimension

	Structure	Dimension (mm)	Material
1	Inner Conductor	0.50	Silver Plated Copper
2	Insulating	1.38	LD-PTFE
3	Outer Conductor	1.54	Silver Plated Copper Ribbon
4	Shielding	1.95	Silver Plated Copper
5	Jacket	2.20	PFA

Specification

1	Operating Frequency (GHz)	40
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)	400
8	Capacitance (pF/m)	> 90
9	Shielding Effectiveness (dB)	16
10	Weight (g/m)	8.80
11	Minimum Bend Radius (mm)	22.00
12	Temperature Range (°C)	-55 ~ +165

Attenuation VS. Frequency

Frequency (MHz)	100	300	500	1000	3000	6000	10000	12400	18000	26500	40000			
Attenuation (dB/m)	0.199	0.346	0.448	0.637	1.119	1.604	2.098	2.352	2.871	3.540	4.440			
Average Power (KW)	0.204	0.178	0.137	0.097	0.055	0.039	0.029	0.026	0.022	0.017	0.014			