

CFS120

Flexible, Thin, Ultra Low-Loss,

Phase & Amplitude Stable Coaxial Cable



Structure & Dimension

	Structure	Dimension (mm)	Material
1	Inner Conductor	0.27	Silver Plated Copper Clad Steel
2	Insulating	0.78	LD-PTFE
3	Outer Conductor	0.89	Silver Plated Copper Ribbon
4	Shielding	1.02	Silver Plated Copper
5	Jacket	1.12	FEP

Specification

1	Operating Frequency (GHz)	5.8
2	Impedance (Ohms)	50
3	Phase Stability	$\leq \pm 2^\circ$ @5.8GHz
4	Phase Stability (Temperature)	$\leq 800\text{PPM}$ @ $-45^\circ\text{C} \sim +85^\circ\text{C}$
5	Amplitude Stability	$\leq \pm 0.1\text{dB}$ @5.8GHz
6	Velocity of Propagation	80%
7	Time Delay (ns/m)	4.2
8	Capacitance (pF/m)	83
9	Shielding Effectiveness (dB)	> 90
10	Weight (g/m)	4.9
11	Minimum Bend Radius (mm)	4.10
12	Temperature Range (°C)	$-55 \sim +165$

Attenuation VS. Frequency

Frequency (MHz)	10	50	100	200	500	1000	2000	5000	5800
Attenuation (dB/m)	0.141	0.307	0.432	0.609	0.974	1.379	1.963	3.137	3.386



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