

CFS090

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



Structure & Dimension

	Structure	Dimension (mm)	Material
1	Inner Conductor	0.20	Silver Plated Copper
2	Insulating	0.58	LD-PTFE
3	Outer Conductor	0.69	Silver Plated Copper Ribbon
4	Shielding	0.81	Silver Plated Copper
5	Jacket	0.91	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)	3.9
11	Minimum Bend Radius(mm)	3.48
12	Temperature Range($^\circ\text{C}$)	$-55 \sim +165$

Attenuation VS. Frequency

Frequency (MHz)	10	50	100	200	500	1000	2000	5000	5800
Attenuation (dB/m)	0.170	0.373	0.529	0.758	1.211	1.738	2.524	4.137	4.503



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