

CFS150

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



Structure & Dimension

	Structure	Dimension (mm)	Material
1	Inner Conductor	0.32	Silver Plated Copper
2	Insulating	0.91	LD-PTFE
3	Outer Conductor	1.04	Silver Plated Copper Ribbon
4	Shielding	1.17	Silver Plated Copper
5	Jacket	1.48	ETFE

Specification

1	Operating Frequency (GHz)	70
2	Impedance (Ohms)	50
3	Phase Stability	$\leq \pm 2^\circ$ @10GHz; $\leq \pm 3^\circ$ @18GHz
4	Phase Stability (Temperature)	$\leq 1200\text{PPM}$ @ $-45^\circ\text{C} \sim +85^\circ\text{C}$
5	Amplitude Stability	$\leq \pm 0.1\text{dB}$ @18GHz
6	Velocity of Propagation	79%
7	Time Delay (ns/m)	4.2
8	Capacitance (pF/m)	84.5
9	Shielding Effectiveness (dB)	>90
10	Minimum Bend Radius (mm)	6.00
11	Temperature Range (°C)	$-55 \sim +165$

Attenuation VS. Frequency VS. Power

Frequency (MHz)	1000	2000	4000	8000	12000	18000	26500	34000	40000	50000	70000
Attenuation (dB/m)	1.098	1.566	2.241	3.220	3.993	4.962	6.123	7.023	7.686	8.709	9.642
Average Power (KW)	0.049	0.035	0.024	0.017	0.014	0.011	0.009	0.008	0.007	0.006	0.004



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