

CFS150U

Flexible, Thin, Ultra Low-Loss,

Phase & Amplitude Stable Coaxial Cable



Structure & Dimension

	Structure	Dimension (mm)	Material
1	Inner Conductor	0.31	Silver Plated Copper
2	Insulating	0.88	LD-PTFE
3	Outer Conductor	1.00	Silver Plated Copper Ribbon
4	Shielding	1.23	Silver Plated Copper
5	Jacket	1.50	FEP

Specification

1	Operating Frequency (GHz)	110
2	Impedance (Ohms)	50
3	Phase Stability	$\leq \pm 2^\circ$ @10GHz; $\leq \pm 3^\circ$ @18GHz
4	Phase Stability (Temperature)	$\leq 800\text{PPM}$ @ $-45^\circ\text{C} \sim +85^\circ\text{C}$
5	Amplitude Stability	$\leq \pm 0.1\text{dB}$ @18GHz
6	Velocity of Propagation	82%
7	Voltage Withstand (V, DC)	500
8	Shielding Effectiveness (dB)	>90
9	Weight (g/m)	6.0
10	Single Bend Radius (mm)	6.00
11	Repeated Bend Radius (mm)	14.50
12	Temperature Range ($^\circ\text{C}$)	$-55 \sim +125$

Attenuation VS. Frequency VS. Power

Frequency (MHz)	1000	3000	6000	10000	12400	18000	26500	40000	50000	67000	80000	90000	110000
Attenuation (dB/m)	1.137	1.985	2.823	3.680	4.113	4.993	6.115	7.604	8.566	10.027	11.034	11.772	13.143
Average Power (KW)	0.178	0.102	0.072	0.055	0.049	0.041	0.033	0.027	0.024	0.020	0.018	0.017	0.015



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