

CFS220U

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)	67
2	Impedance (Ohms)	50
3	Phase Stability	$\leq \pm 3^\circ$ @18GHz; $\leq \pm 5^\circ$ @26.5GHz
4	Phase Stability (Temperature)	$< 750\text{PPM}$ @ $-55^\circ\text{C} \sim +85^\circ\text{C}$
5	Amplitude Stability	$\leq \pm 0.1\text{dB}$ @18GHz
6	Velocity of Propagation	82%
7	Voltage Withstand (V, DC)	400
8	Shielding Effectiveness (dB)	> 90
9	Weight (g/m)	16
10	Single Bend Radius (mm)	8.80
11	Repeated Bend Radius (mm)	22.00
12	Temperature Range ($^\circ\text{C}$)	$-55 \sim +165$

Attenuation VS. Frequency VS. Power

Frequency (MHz)	100	300	500	1000	3000	6000	10000	12400	18000	26500	40000	50000	67000
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	5.028	5.932
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	0.012	0.010



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