

CFA230

Flexible, Low-Loss,

Phase & Amplitude Stable Coaxial Cable



Structure & Dimension

	Structure	Dimension (mm)	Material
1	Inner Conductor	0.51	Silver Plated Copper
2	Insulating	1.52	LD-PTFE
3	Outer Conductor	1.70	Silver Plated Copper Ribbon
4	Shielding	2.04	Silver Plated Copper
5	Jacket	2.33	FEP

Specification

1	Operating Frequency (GHz)	50
2	Impedance (Ohms)	50
3	Phase Stability	$\leq \pm 3^\circ$ @18GHz; $\leq \pm 5^\circ$ @26.5GHz
4	Phase Stability (Temperature)	$< 1400\text{PPM}$ @ $-55^\circ\text{C} \sim +85^\circ\text{C}$
5	Amplitude Stability	$\leq \pm 0.1\text{dB}$ @18GHz
6	Velocity of Propagation	76%
7	Voltage Withstand (V, DC)	400
8	Shielding Effectiveness (dB)	> 90
9	Weight (g/m)	16
10	Single Bend Radius (mm)	11.00
11	Repeated Bend Radius (mm)	23.00
12	Temperature Range ($^\circ\text{C}$)	$-55 \sim +165$

Attenuation VS. Frequency VS. Power

Frequency (MHz)	300	500	1000	2000	3000	4000	6000	10000	12400	18000	26500	40000	50000
Attenuation (dB/m)	0.381	0.493	0.701	0.998	1.229	1.426	1.760	2.299	2.576	3.141	3.868	4.843	5.479
Average Power (KW)	0.178	0.137	0.097	0.068	0.055	0.048	0.039	0.029	0.026	0.022	0.018	0.014	0.012



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