

CFA640

Flexible, Low-Loss,

Phase & Amplitude Stable Coaxial Cable



Structure & Dimension

	Structure	Dimension (mm)	Material
1	Inner Conductor	1.57	Silver Plated Coppe
2	Insulating	4.72	LD-PTFE
3	Outer Conductor	4.96	Silver Plated Copper Ribbon
4	Shielding	5.53	Silver Plated Copper
5	Jacket	6.35	FEP

Specification

1	Operating Frequency (GHz)	18
2	Impedance (Ohms)	50
3	Phase Stability	$\leq \pm 2^\circ$ @10GHz; $\leq \pm 3^\circ$ @18GHz
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)	2000
8	Shielding Effectiveness (dB)	> 90
9	Weight (g/m)	86
10	Single Bend Radius (mm)	31.00
11	Repeated Bend Radius (mm)	63.00
12	Temperature Range ($^\circ\text{C}$)	$-55 \sim +165$

Attenuation VS. Frequency VS. Power

Frequency (MHz)	300	500	1000	2000	3000	4000	6000	8000	10000	12400	18000
Attenuation (dB/m)	0.108	0.140	0.200	0.287	0.354	0.412	0.511	0.597	0.674	0.758	0.931
Average Power (KW)	1.885	1.453	1.019	0.712	0.576	0.495	0.399	0.342	0.303	0.269	0.219



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