

CFT500

Flexible, Low-Loss, Long Bending Life,
Suitable for Precision Testing, Phase & Amplitude Stable Coaxial Cable



Structure & Dimension

	Structure	Dimension (mm)	Material
1	Inner Conductor	1.44	Silver Plated Copper (Multi-fiber Stranded)
2	Insulating	3.80	LD-PTFE
3	Outer Conductor	4.00	Silver Plated Copper Ribbon
4	Sandwich layer	4.32	PTFE
5	Shielding	4.63	Silver Plated Copper
6	Jacket	5.05	PFA

Specification

1	Operating Frequency (GHz)	26.5
2	Impedance (Ohms)	50
3	Phase Stability	$\leq \pm 3^\circ @ 18\text{GHz}$; $\leq \pm 5^\circ @ 26.5\text{GHz}$
4	Phase Stability (Temperature)	$< 750\text{PPM} @ -55^\circ\text{C} \sim +85^\circ\text{C}$
5	Amplitude Stability	$\leq \pm 0.1\text{dB} @ 18\text{GHz}$
6	Velocity of Propagation	82%
7	Voltage Withstand (V,DC)	2000
8	Shielding Effectiveness (dB)	> 90
9	Weight (g/m)	60
10	Single Bend Radius (mm)	25.00
11	Reapted Bend Radius (mm)	50.00
12	Temperature Range ($^\circ\text{C}$)	$-55 \sim +165$

Attenuation VS. Frequency VS. Power

Frequency (MHz)	1000	2000	4000	6000	8000	10000	12400	18000	26500					
Attenuation (dB/m)	0.271	0.389	0.560	0.696	0.813	0.919	1.035	1.274	1.588					
Average Power (KW)	0.821	0.573	0.397	0.320	0.274	0.242	0.215	0.175	0.140					