

# CFT420

Flexible, Low-Loss, Long Bending Life,

Suitable for Precision Testing, Phase & Amplitude Stable Coaxial Cable



## Structure & Dimension

	Structure	Dimension (mm)	Material
1	Inner Conductor	1.02	Silver Plated Copper (Multi-fiber Stranded)
2	Insulating	2.70	LD-PTFE
3	Outer Conductor	2.95	Silver Plated Copper Ribbon
4	Sandwich layer	3.20	PTFE
5	Shielding	3.62	Silver Plated Copper
6	Jacket	4.20	FEP

## Specification

1	Operating Frequency (GHz)	40
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	81%
7	Voltage Withstand (V, DC)	500
8	Shielding Effectiveness (dB)	$> 90$
9	Weight (g/m)	40
10	Single Bend Radius (mm)	21.00
11	Repeated Bend Radius (mm)	42.00
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	40000
Attenuation (dB/m)	0.394	0.560	0.797	0.981	1.138	1.277	1.427	1.733	2.123	2.641
Average Power (KW)	0.567	0.399	0.280	0.228	0.196	0.175	0.157	0.129	0.105	0.085



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