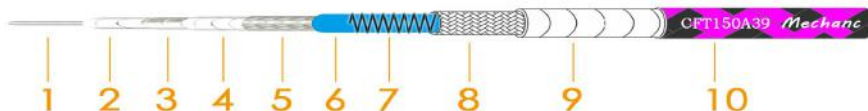


# CFT150A39

Flexible, Thin, Low-Loss, Long Bending Life,

Suitable for Precision Testing, Phase & Amplitude Stable Coaxial Cable



## Structure & Dimension

	Structure	Dimension (mm)	Material
1	Inner Conductor	0.31	Silver Plated Copper
2	Insulating	0.88	LD-PTFE
3	Outer Conductor	1.00	Silver Plated Copper Ribbon
4	Sandwich layer	1.20	PTFE
5	Shielding	1.45	Silver Plated Copper
6	Jacket	1.85	FEP
7~9	Armor Layer	3.29	Fusion of Multiple Materials
10	Armor Jacket	3.84	Bicolor PTFE Weaving

## Specification

1	Operating Frequency (GHz)	110
2	Impedance (Ohms)	50
3	Phase Stability	$\leq \pm 10^\circ$ @110GHz
4	Phase Stability (Temperature)	$< 750\text{PPM}$ @ $-55^\circ\text{C} \sim +85^\circ\text{C}$
5	Amplitude Stability	$\leq \pm 0.1\text{dB}$ @67GHz
6	Velocity of Propagation	81%
7	Voltage Withstand (V, DC)	500
8	Shielding Effectiveness (dB)	$> 90$
9	Single Bend Radius (mm)	30.00
10	Repeated Bend Radius (mm)	50.00
11	Life Cycle	500000
12	Temperature Range ( $^\circ\text{C}$ )	$-55 \sim +125$

## Attenuation VS. Frequency VS. Power

Frequency (MHz)	1000	2000	3000	6000	8000	18000	26500	40000	67000	75000	110000
Attenuation (dB/m)	1.137	1.616	1.985	2.829	3.280	4.993	6.115	7.604	10.027	10.659	13.143
Average Power (KW)	0.039	0.027	0.022	0.016	0.014	0.009	0.007	0.006	0.004	0.004	0.003



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