

CFS390T

Flexible, Ultra Low-Loss,
Phase & Amplitude Stable Coaxial Cable



Structure & Dimension

	Structure	Dimension (mm)	Material
1	Inner Conductor	0.91	Silver Plated Copper
2	Insulating	2.50	LD-PTFE
3	Outer Conductor	2.66	Silver Plated Copper Ribbon
4	Sandwich Layer	2.86	PTFE
5	Shielding	3.39	Silver Plated Copper
6	Jacket	3.90	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	83%
7	Voltage Withstand (V, DC)	500
8	Shielding Effectiveness (dB)	> 90
9	Weight (g/m)	34
10	Single Bend Radius (mm)	15.60
11	Repeated Bend Radius (mm)	39.00
12	Temperature Range ($^\circ\text{C}$)	$-55 \sim +165$

Attenuation VS. Frequency VS. Power

Frequency (MHz)	100	300	1000	3000	6000	8000	10000	12400	14000	18000	26500	40000
Attenuation (dB/m)	0.117	0.204	0.375	0.657	0.938	1.089	1.224	1.369	1.460	1.667	2.048	2.557
Average Power (KW)	1.626	0.936	0.509	0.291	0.203	0.176	0.156	0.139	0.131	0.115	0.093	0.075



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