

CFS400

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



Structure & Dimension

	Structure	Dimension (mm)	Material
1	Inner Conductor	1.05	Silver Plated Copper
2	Insulating	2.85	LD-PTFE
3	Outer Conductor	3.05	Silver Plated Copper Ribbon
4	Shielding	3.40	Silver Plated Copper
5	Jacket	4.00	PFA

Specification

1	Operating Frequency (GHz)	40
2	Impedance (Ohms)	50
3	Phase Stability	$\leq \pm 3^\circ$ @ 18 GHz ; $\leq \pm 5^\circ$ @ 26.5 GHz
4	Phase Stability (Temperature)	< 750 PPM @ -55°C ~ +85°C
5	Amplitude Stability	$\leq \pm 0.1$ dB @ 18 GHz
6	Velocity of Propagation	82%
7	Voltage Withstand (V,DC)	1500
8	Shielding Effectiveness (dB)	> 90
9	Weight (g/m)	40
10	Single Bend Radius (mm)	20.00
11	Repeated Bend Radius (mm)	40.00
12	Temperature Range (°C)	-55 ~ +165

Attenuation VS. Frequency

Frequency (MHz)	1000	2000	4000	6000	8000	10000	12400	18000	26500	40000			
Attenuation (dB/m)	0.362	0.513	0.727	0.893	1.033	1.157	1.290	1.560	1.902	2.350			
Average Power (KW)	0.634	0.447	0.315	0.257	0.222	0.198	0.178	0.147	0.121	0.098			