

CFS280

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



Structure & Dimension			
	Structure	Dimension (mm)	Material
1	Inner Conductor	0.72	Silver Plated Copper
2	Insulating	1.96	LD-PTFE
3	Outer Conductor	2.13	Silver Plated Copper Ribbon
4	Shielding	2.34	Silver Plated Copper
5	Jacket	2.80	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	$\leq \pm 0.1\text{dB}@18\text{GHz}$
6	Velocity of Propagation	81%
7	Voltage Withstand (V,DC)	400
8	Shielding Effectiveness(dB)	> 90
9	Weight(g/m)	22
10	Single Bend Radius(mm)	14.00
11	Repeated Bend Radius(mm)	28.00
12	Temperature Range($^\circ\text{C}$)	$-55\sim+165$

Attenuation VS. Frequency VS. Power									
Frequency (MHz)	1000	2000	3000	8000	10000	18000	26500	30000	40000
Attenuation (dB/m)	0.469	0.668	0.820	1.359	1.527	2.079	2.555	2.732	3.191
Average Power (KW)	0.401	0.282	0.229	0.135	0.121	0.089	0.072	0.067	0.058