

# CFS520

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



Structure & Dimension													
	Structure	Dimension (mm)	Material										
1	Inner Conductor	1.45	Silver Plated Copper										
2	Insulating	3.99	LD-PTFE										
3	Outer Conductor	4.19	Silver Plated Copper Ribbon										
4	Shielding	4.60	Silver Plated Copper										
5	Jacket	5.20	PFA										
Specification													
1	Operating Frequency (GHz)	26.5											
2	Impedance (Ohms)	50											
3	Phase Stability	$\leq \pm 2^\circ$ @ 10 GHz ; $\leq \pm 3^\circ$ @ 18 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	83%											
7	Voltage Withstand (V,DC)	1500											
8	Shielding Effectiveness (dB)	> 90											
9	Weight (g/m)	67											
10	Single Bend Radius (mm)	26.00											
11	Repeated Bend Radius (mm)	52.00											
12	Temperature Range (°C )	-55 ~ +165											
Attenuation VS. Frequency													
Frequency (MHz)	100	300	500	1000	2000	3000	6000	10000	12400	18000	26500		
Attenuation (dB/m)	0.073	0.127	0.165	0.234	0.333	0.410	0.585	0.763	0.854	1.038	1.275		
Average Power (KW)	2.934	1.688	1.305	0.919	0.646	0.525	0.368	0.282	0.252	0.207	0.169		