

# CFS150

Flexible, Low-Loss, Long Bending Life,  
Suitable for Precision Testing, Phase & Amplitude Stable Coaxial Cable



Structure & Dimension														
	Structure	Dimension (mm)	Material											
1	Inner Conductor	0.32	Silver Plated Copper											
2	Insulating	0.91	LD-PTFE											
3	Outer Conductor	1.04	Silver Plated Copper Ribbon											
4	Shielding	1.17	Silver Plated Copper											
5	Jacket	1.48	ETFE											
Specification														
1	Operating Frequency (GHz)	70												
2	Impedance (Ohms)	50												
3	Phase Stability	$\leq \pm 2^\circ @ 10 \text{ GHz}$ ; $\leq \pm 3^\circ @ 18 \text{ GHz}$												
4	Phase Stability (Temperature)	$\leq 1200 \text{ PPM @ } -45^\circ\text{C} \sim +85^\circ\text{C}$												
5	Amplitude Stability	$\leq \pm 0.1 \text{ dB @ } 18 \text{ GHz}$												
6	Velocity of Propagation	79%												
7	Time Delay (ns/m)	4.2												
8	Capacitance (pF/m)	84.5												
9	Shielding Effectiveness (dB)	> 90												
10	Minimum Bend Radius (mm)	6.00												
11	Temperature Range ( $^\circ\text{C}$ )	-55 ~ +165												
Attenuation VS. Frequency														
Frequency (MHz)	1000	2000	4000	8000	12000	18000	26500	34000	40000	50000	70000			
Attenuation (dB/m)	1.098	1.566	2.241	3.220	3.993	4.962	6.123	7.023	7.686	8.709	9.642			
Average Power (KW)	0.049	0.035	0.024	0.017	0.014	0.011	0.009	0.008	0.007	0.006	0.004			