

# CFS150UE

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



Structure & Dimension													
	Structure	Dimension (mm)	Material										
1	Inner Conductor	0.31	Silver Plated Copper										
2	Insulating	0.88	LD-PTFE										
3	Outer Conductor	1.00	Silver Plated Copper Ribbon										
4	Shielding	1.23	Silver Plated Copper										
5	Jacket	1.50	FEP										
Specification													
1	Operating Frequency(GHz)	67											
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)	$\leq 800 \text{ PPM @ } -45^\circ\text{C} \sim +85^\circ\text{C}$											
5	Amplitude Stability	$\leq \pm 0.1 \text{ dB @ } 18 \text{ GHz}$											
6	Velocity of Propagation	82%											
7	Voltage Withstand(V,DC)	500											
8	Shielding Effectiveness(dB)	> 90											
9	Weight(g/m)	6.0											
10	Single Bend Radius (mm)	6.00											
11	Repeated Bend Radius(mm)	14.50											
12	Temperature Range( $^\circ\text{C}$ )	-55 ~ +125											
Attenuation VS. Frequency													
Frequency (MHz)	1000	3000	6000	10000	12400	18000	26500	40000	50000	67000			
Attenuation (dB/m)	1.137	1.985	2.823	3.680	4.113	4.993	6.115	7.604	8.566	10.027			
Average Power (KW)	0.178	0.102	0.072	0.055	0.049	0.041	0.033	0.027	0.024	0.020			