

CFS120

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



Structure & Dimension														
	Structure	Dimension (mm)	Material											
1	Inner Conductor	0.27	Silver Plated Copper Clad Steel											
2	Insulating	0.78	LD-PTFE											
3	Outer Conductor	0.89	Silver Plated Copper Ribbon											
4	Shielding	1.02	Silver Plated Copper											
5	Jacket	1.12	FEP											
Specification														
1	Operating Frequency (GHz)	5.8												
2	Impedance (Ohms)	50												
3	Phase Stability	$\leq \pm 2^\circ$ @ 5.8 GHz												
4	Phase Stability (Temperature)	≤ 800 PPM @ $-45^\circ\text{C} \sim +85^\circ\text{C}$												
5	Amplitude Stability	$\leq \pm 0.1$ dB @ 5.8 GHz												
6	Velocity of Propagation	80%												
7	Time Delay (ns/m)	4.2												
8	Capacitance (pF/m)	83												
9	Shielding Effectiveness (dB)	> 90												
10	Weight (g/m)	4.9												
11	Minimum Bend Radius (mm)	4.10												
12	Temperature Range ($^\circ\text{C}$)	$-55 \sim +165$												
Attenuation VS. Frequency														
Frequency (MHz)	10	50	100	200	500	1000	2000	5000	5800					
Attenuation (dB/m)	0.141	0.307	0.432	0.609	0.974	1.379	1.963	3.137	3.386					