

# CFS740

Flexible, Ultra Low-Loss,

Phase & Amplitude Stable Coaxial Cable



## Structure & Dimension

	Structure	Dimension (mm)	Material
1	Inner Conductor	2.10	Silver Plated Copper
2	Insulating	5.70	LD-PTFE
3	Outer Conductor	5.95	Silver Plated Copper Ribbon
4	Shielding	6.60	Silver Plated Copper
5	Jacket	7.40	PFA

## Specification

1	Operating Frequency (GHz)	18
2	Impedance (Ohms)	50
3	Phase Stability	$\leq \pm 2^\circ$ @10GHz; $\leq \pm 3^\circ$ @18GHz
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	83%
7	Voltage Withstand (V, DC)	2500
8	Shielding Effectiveness (dB)	$> 90$
9	Weight (g/m)	125
10	Single Bend Radius (mm)	37.00
11	Repeated Bend Radius (mm)	74.00
12	Temperature Range (°C)	$-55 \sim +165$

## Attenuation VS. Frequency VS. Power

Frequency (MHz)	100	300	500	1000	2000	3000	4000	6000	8000	10000	12400	18000
Attenuation (dB/m)	0.050	0.086	0.112	0.158	0.224	0.275	0.318	0.391	0.452	0.507	0.566	0.685
Average Power (KW)	5.526	3.186	2.465	1.740	1.227	1.000	0.864	0.704	0.608	0.542	0.486	0.401



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