

# CFS480U

Flexible, Ultra Low-Loss,

Phase & Amplitude Stable Coaxial Cable



## Structure & Dimension

	Structure	Dimension (mm)	Material
1	Inner Conductor	1.40	Silver Plated Copper
2	Insulating	3.75	LD-PTFE
3	Outer Conductor	3.95	Silver Plated Copper Ribbon
4	Shielding	4.35	Silver Plated Copper
5	Jacket	4.80	PFA

## Specification

1	Operating Frequency (GHz)	32
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	$\leq \pm 0.1\text{dB}$ @18GHz
6	Velocity of Propagation	83%
7	Voltage Withstand (V, DC)	1500
8	Shielding Effectiveness (dB)	$> 90$
9	Weight (g/m)	62
10	Single Bend Radius (mm)	24.00
11	Repeated Bend Radius (mm)	48.00
12	Temperature Range ( $^\circ\text{C}$ )	$-55 \sim +165$

## Attenuation VS. Frequency VS. Power

Frequency (MHz)	100	300	500	1000	3000	5000	6000	10000	12400	18000	26500	32000
Attenuation (dB/m)	0.075	0.131	0.169	0.241	0.421	0.547	0.601	0.783	0.876	1.066	1.308	1.447
Average Power (KW)	2.934	1.689	1.305	0.919	0.525	0.404	0.368	0.282	0.252	0.207	0.169	0.153



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