

CFP640

Flexible, Low-Loss, Resistance to High Power,
Phase & Amplitude Stable Coaxial Cable



Structure & Dimension

	Structure	Dimension (mm)	Material
1	Inner Conductor	1.57	Silver Plated Copper
2	Insulating	4.72	LD-PTFE
3	Outer Conductor	4.96	Silver Plated Copper Ribbon
4	Sandwich Layer	5.10	Aluminum Foil (High temperature)
5	Shielding	5.66	Silver Plated Copper
6	Jacket	6.35	FEP

Specification

1	Operating Frequency (GHz)	18
2	Impedance (Ohms)	50
3	Phase Stability	$\leq \pm 5^\circ @ 18\text{GHz}$
4	Phase Stability (Temperature)	$< 1400\text{PPM}@ -55^\circ\text{C} \sim +85^\circ\text{C}$
5	Amplitude Stability	$\leq \pm 0.1\text{dB}@ 18\text{GHz}$
6	Velocity of Propagation	76%
7	Voltage Withstand (V, DC)	2000
8	Shielding Effectiveness (dB)	> 100
9	Weight (g/m)	92
10	Single Bend Radius (mm)	31.00
11	Repeated Bend Radius (mm)	63.00
12	Temperature Range ($^\circ\text{C}$)	$-55 \sim +200$

Attenuation VS. Frequency VS. Power

Frequency (MHz)	100	300	500	1000	2000	3000	6000	8000	10000	12400	16000	18000
Attenuation (dB/m)	0.069	0.120	0.156	0.222	0.317	0.392	0.564	0.658	0.742	0.834	0.958	1.022
Average Power (KW)	2.055	1.885	1.454	1.020	0.713	0.578	0.401	0.344	0.305	0.271	0.236	0.221



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