

# CFP520

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



## Structure & Dimension

	Structure	Dimension (mm)	Material
1	Inner Conductor	1.29	Silver Plated Copper
2	Insulating	3.91	LD-PTFE
3	Outer Conductor	4.15	Silver Plated Copper Ribbon
4	Sandwich Layer	4.28	Aluminum Foil (High temperature)
5	Shielding	4.79	Silver Plated Copper
6	Jacket	5.20	FEP

## Specification

1	Operating Frequency (GHz)	18
2	Impedance (Ohms)	50
3	Phase Stability	$\leq \pm 5^\circ$ @18GHz
4	Phase Stability (Temperature)	$< 1400\text{PPM@}-55^\circ\text{C}\sim+85^\circ\text{C}$
5	Amplitude Stability	$\leq \pm 0.1\text{dB@18GHz}$
6	Velocity of Propagation	76%
7	Voltage Withstand (V, DC)	1000
8	Shielding Effectiveness (dB)	$> 100$
9	Weight (g/m)	68
10	Single Bend Radius (mm)	26.00
11	Repeated Bend Radius (mm)	52.00
12	Temperature Range (°C)	$-55\sim+200$

## Attenuation VS. Frequency VS. Power

Frequency (MHz)	300	500	1000	2000	3000	6000	8000	10000	12400	13500	16000	18000
Attenuation (dB/m)	0.150	0.194	0.277	0.395	0.487	0.699	0.813	0.915	1.027	1.075	1.178	1.255
Average Power (KW)	1.383	1.068	0.750	0.526	0.426	0.297	0.255	0.227	0.202	0.193	0.176	0.165



Add: 569 Huaxu Road, Qingpu Shanghai, P.R. China

Email: sales@mechanc.com

Tel: +86-021-54667179

Web: www.mechanc.com