

SFB High Performance Ultra Low Loss Flexible Coax Cable

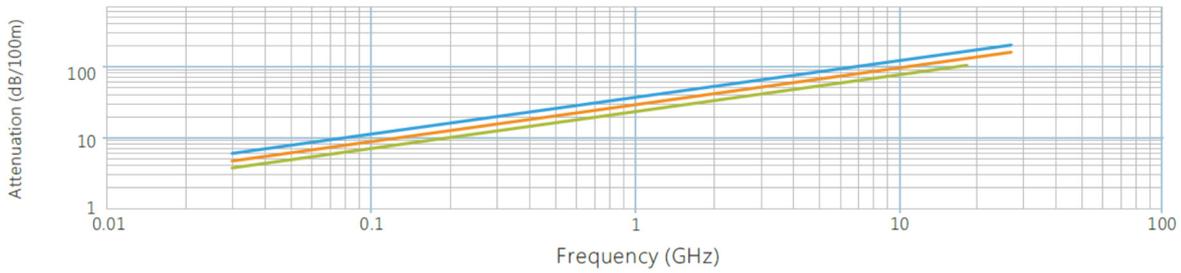


SFB High Performance Ultra Low Loss Flexible Coax Cable use ultra-low density PTFE as the dielectric, silver plated copper tape wrapped inner shielding layer, silver plated copper wire braided outer shielding, FEP sheath, ultra-low loss, and stable phase. PTFE interlayer is optional, The bending life can be greatly increased.

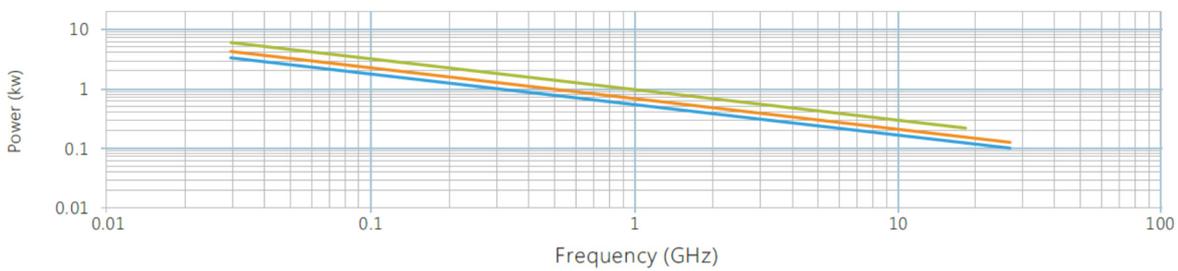
Type	SFB-220		SFB-360		SFB-480		SFB-800					
Mechanical Characteristics												
Diameter		mm	Inch	mm	Inch	mm	Inch	mm	Inch			
Center Conductor	SPC	0.51	0.020	0.91	0.036	1.40	0.055	2.30	0.091			
Dielectric	ULD PTFE	1.40	0.055	2.50	0.098	3.80	0.149	6.25	0.246			
Outer Conductor	SPC Tape	1.56	0.061	2.70	0.106	4.00	0.157	6.57	0.259			
Outer Shield	SPC Wire	1.87	0.074	3.16	0.124	4.40	0.173	7.15	0.281			
Jacket	FEP	2.20	0.087	3.60	0.142	4.80	0.189	7.80	0.307			
Bend Radius: Installation		15	0.591	18	0.709	24	0.945	35	1.378			
Bend Radius: Repeated		22	0.870	36	1.420	48	1.889	80	3.150			
Weight		16 g/m	0.009lbs/ft	33 g/m	0.022lbs/ft	52 g/m	0.035lbs/ft	130g/m	0.087lbs/ft			
Temperature Range		-55°C/165°C (-67°F/329°F)										
Electrical Characteristics												
Impedance		50Ω										
Shielding Effectiveness		> 90 dB										
Dielectric Constant		1.49				1.45						
Velocity of Propagation		82%				83%						
Mechanical Phase Stability		8°@67G		5°@40G		4.5°@26.5G		4°@18G				
Time Delay		4.06 ns/m (1.24 ns/ft)				4.01 ns/m (1.22 ns/ft)						
Capacitance		81.4 pF/m (24.8 pF/ft)				80.3 pF/m (24.5 pF/ft)						
Inductance		0.21uH/m (0.063uH/ft)		0.19uH/m (0.058uH/ft)		0.18uH/m (0.055uH/ft)		0.17uH/m (0.053uH/ft)				
Voltage Withstand Operating		500V DC		900V DC		1500V DC		3600V DC				
Frequency		67 GHz		40 GHz		26.5 GHz		18 GHz				
Attenuation (+25°C Ambient) & Power Handling(+40°C Ambient; Sea Level; VSWR1:1)												
Frequency (GHz)	dB/m	dB/ft	KW	dB/m	dB/ft	KW	dB/m	dB/ft	KW	dB/m	dB/ft	KW
3	1.111	0.339	0.154	0.656	0.200	0.292	0.414	0.067	0.503	0.259	0.079	1.029
6	1.598	0.487	0.107	0.938	0.286	0.204	0.592	0.119	0.352	0.373	0.114	0.717
12	2.310	0.704	0.074	1.346	0.410	0.142	0.844	0.172	0.238	0.539	0.164	0.496
18	2.877	0.877	0.059	1.667	0.508	0.115	1.052	0.201	0.198	0.671	0.205	0.398
26.5	3.559	1.085	0.048	2.048	0.624	0.094	1.293	0.250	0.161	/	/	/
40	4.480	1.366	0.038	2.557	0.779	0.075	/	/	/	/	/	/
67	6.019	1.834	0.028	/	/	/	/	/	/	/	/	/
Attenuation at Frequency		dB/100m=k1*sqrt(FMHz)+k2*FMHz										
K1	1.9500000			1.1684700			0.7380000			0.4563799		
K2	0.0014500			0.0005500			0.0003450			0.0003280		



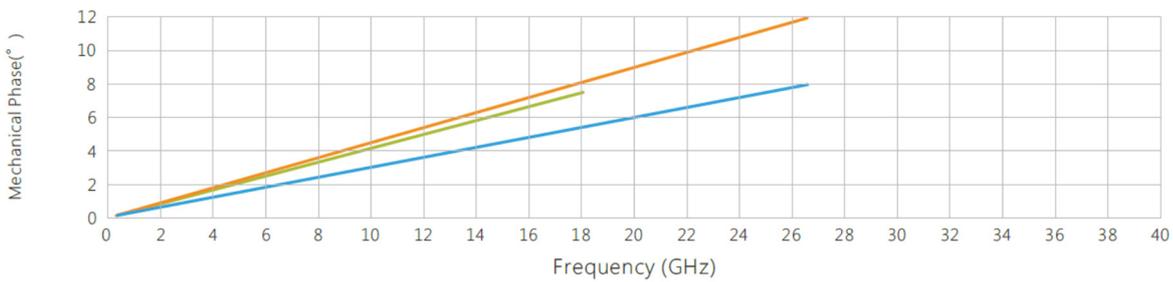
Frequency & Attenuation



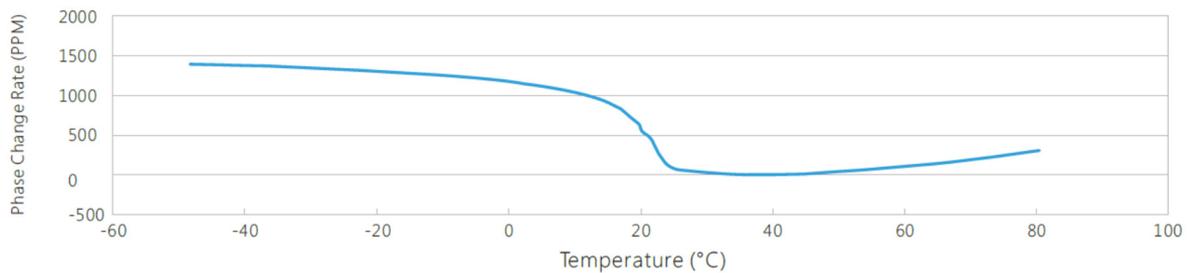
Frequency & Power



Mechanical Phase Stability (360 degree bend along the repeated bending radius)



Temperature Phase (PPM)



Corresponding table of different manufacturers

F+S	MCC	GORE	TIMES	IW	HAROUR	SEMFLEX
FSB-220		3506				
FSB-360	UFB142A	3507		1401		
FSB-500	UFB205A	3449	Hf190	1801		
FSB-800	UFB311A	3450	Hf290	2801	LLS290	La290

