



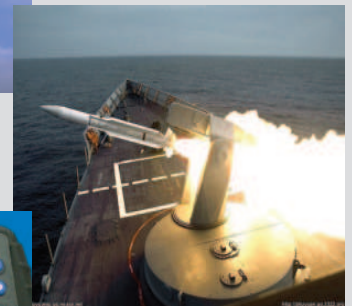
Typical Applications:

- * Electronic warfar
- * High power application
- * Field test
- * Base station
- * Test cable assemblies
- * Wireless radio stations

FSA series has been successfully deployed in a broad range of military applications. It is combined low density PTFE core, SPC ribbon braid, tri-shielding, by advantage of robust struction, It has been used in system level microwave interconnects for aribone, shipboard and ground based military as well as commercial telecom applications. By years applications, FSA is highly reliability and long bending life for many fields.

Features & Benefits:

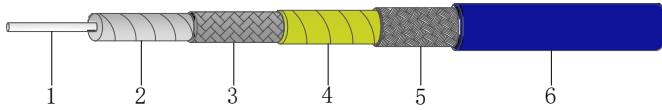
- * Good phase stable vs. bending
- * Good attenuation stable vs. bending
- * Excellent shielding effectiveness
- * Good bending performance
- * Long work life
- * Stronger mechanical
- * Better power handling



Replacment reference chart

F+S	TIMES	ASTROLAB	SEMFLEX	MCC	H+S
FSA-460	SFT-142	32022	HP160s	UFA147A	SF-102
FSA-520	SFT-205	32055	HP190s	UFA205A	SF-104
FSA-630	SFT-304	32051	HP305s		

FSA Specification



1. Center conductor, SPC
2. Dielectric, ND-PTFE
3. Outer conductor, SPC ribbon braid
4. Interlayer, PI/Al Tape
5. Outer Shield, SPC
6. Jacket, Blue FEP

FSA-460		FSA-520		FSA-630		
Physical & Mechanical Specifications						
Dimensions	mm	Inch	mm	Inch	mm	Inch
Center Conductor	1.02	0.040	1.29	0.051	1.57	0.062
Dielectric	3.05	0.120	3.91	0.154	4.72	0.186
Outer Conductor	3.25	0.128	4.23	0.167	5.02	0.198
Interlayer	3.43	0.135	4.32	0.170	5.10	0.201
Outer Shield	3.85	0.152	4.76	0.187	5.55	0.219
Jacket	4.50	0.177	5.20	0.205	6.00	0.236
Bend Radius, minimum	20	0.787	25	0.984	32	1.260
Bend Radius, repeated	46	1.81	52	2.05	63	2.48
Weight	50 g/m	.034 lbs/ft	60 g/m	.040 lbs/ft	90 g/m	.060 lbs/ft
Temperature Range	T: -55° /200° C (-67° /392° F)					
Electrical Specifications						
Impedance	50 Ohms		50 Ohms		50 Ohms	
Velocity of Propagation	76%		76%		76%	
Dielectric Constant	1.73		1.73		1.73	
Shielding Effectiveness	> 100 dB		> 100 dB		> 100 dB	
Time Delay	4.38 nS/m	1.33 nS/Ft	4.38 nS/m	1.33 nS/Ft	4.38 nS/m	1.33 nS/Ft
Capacitance	87.7 pF/m	26.7 pF/Ft	87.7 pF/m	26.7 pF/Ft	87.7 pF/m	26.7 pF/Ft
Inductance	0.20uH/m	0.061 uH/Ft	0.20uH/m	0.061 uH/Ft	0.19uH/m	0.059 uH/Ft
Cutoff Frequency	35 GHz		28 GHz		23 GHz	
Voltage Withstand	1000 DC		1500 DC		2000 DC	
Peak Power	2.5 kW		5.6 kW		10 kW	
Attenuation&Power Handling	Attenuation (+25° C Ambient) & Power Handling (+40° C Ambient; Sea Level; VSWR 1;1)					
Frequency (MHz)	dB/100 m	dB/100 Ft	kW	dB/100 m	dB/100 Ft	kW
30	6.04	1.84	3.332	4.71	1.44	4.267
50	7.80	2.38	2.579	6.08	1.85	3.302
100	11.06	3.37	1.821	8.62	2.63	2.330
300	19.22	5.86	1.047	15.01	4.58	1.338
500	24.89	7.59	0.809	19.44	5.93	1.033
900	33.53	10.22	0.600	26.22	7.99	0.766
1000	35.37	10.78	0.569	27.67	8.44	0.726
1500	43.49	13.26	0.463	34.05	10.38	0.590
2000	50.37	15.36	0.400	39.47	12.03	0.509
3000	62.03	18.91	0.324	48.67	14.84	0.413
4000	71.95	21.93	0.280	56.52	17.23	0.355
5000	80.75	24.62	0.249	63.50	19.36	0.316
6000	88.78	27.07	0.227	69.87	21.30	0.288
8000	103.16	31.45	0.195	81.31	24.79	0.247
10000	115.97	35.36	0.174	91.53	27.91	0.219
12000	127.67	38.92	0.158	100.88	30.76	0.199
12400	129.90	39.60	0.155	102.67	31.30	0.196
13500	135.87	41.43	0.148	107.46	32.76	0.187
15000	143.69	43.81	0.140	113.73	34.67	0.177
18000	158.35	48.28	0.127	125.51	38.26	0.160
24000	184.78	56.33	0.109	146.82	44.76	0.137
26500	194.93	59.43	0.103	155.04	47.27	0.130
Attenuation at Frequency	dB/100 m=K1*sqrt(FMHz)+K2*FMHz					
K1	1.0994853		0.8562336		0.6827428	
K2	0.0006019		0.0005906		0.0005906	

