

Typical Applications :

- * ECM&LRU systems
- * High power applications
- * Outdoor
- * Base station
- * Systems interconnections
- * Wireless radio stations

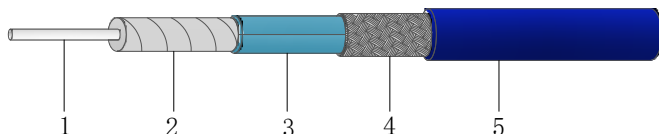
FSF Series is developed by FocuSimple as communicated with customer and well understand coaxial cable materials and construction. FSF series benefit to materials to have low loss, stable loss and low price advantage to meet Military and Wireless market requirements.

Features & Benefits :

- * Excellent amplitude stability
- * Cost effective product
- * Fire retardant
- * High temperature
- * Long working life
- * Light weight
- * Short lead time

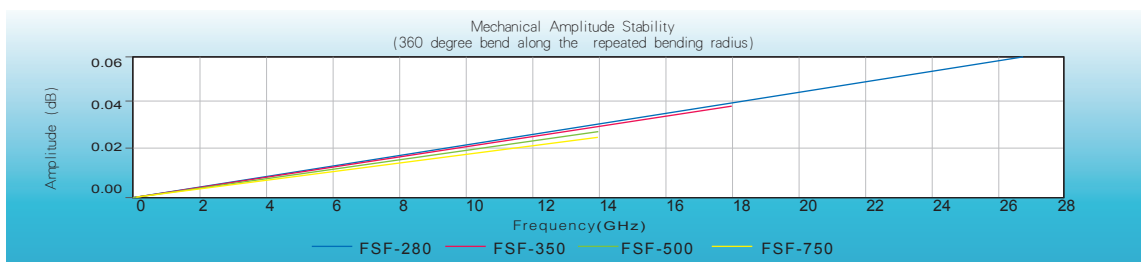
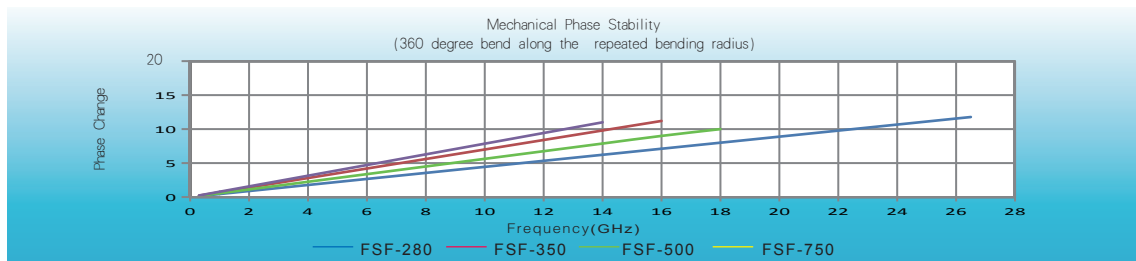
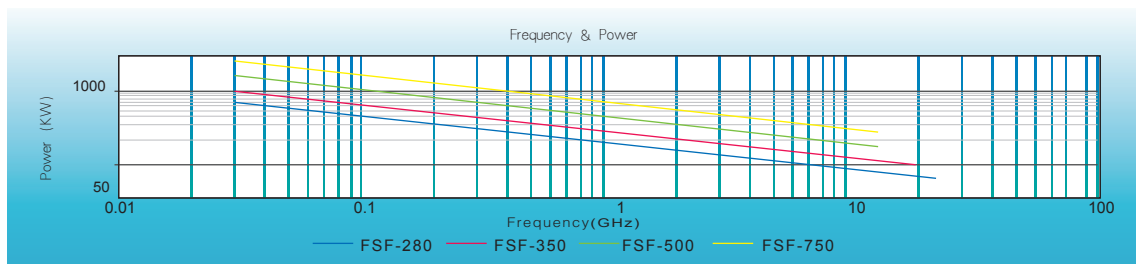
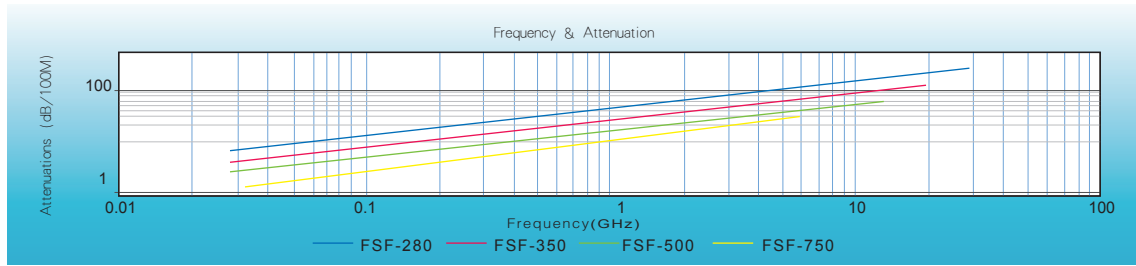


FSF Specification



1. Center conductor: SPC
2. Dielectric: ND-PTFE
3. Outer conductor: Al Tape
4. Outer shield: SPC
5. Jacket: Blue FEP

	FSF-280			FSF-350			FSF-500			FSF-750		
Physical & Mechanical Specifications												
Dimensions	mm	Inch		mm	Inch		mm	Inch		mm	Inch	
Center Conductor	0.56	0.022		0.94	0.037		1.45	0.057		2.30	0.091	
Dielectric	1.60	0.063		2.75	0.108		4.30	0.169		6.70	0.264	
Outer Conductor	1.68	0.066		2.80	0.110		4.38	0.172		6.80	0.268	
Outer Shield	2.00	0.079		3.20	0.126		4.78	0.188		7.33	0.289	
Jacket	2.60	0.103		3.50	0.138		5.20	0.205		7.80	0.307	
Bend Radius, minimum	12	0.472		14	0.551		20	0.787		32	0.709	
Bend Radius, repeated	28	1.10		35	1.38		52	2.05		78	1.42	
Weight	18 g/m	.012 lbs/ft		29 g/m	.019 lbs/ft		60 g/m	.039 lbs/ft		110 g/m	.072 lbs/ft	
Temperature Range	T _i : -55° /165° C (-67° /329° F)											
Electrical Specifications												
Impedance	50 Ohms			50 Ohms			50 Ohms			50 Ohms		
Velocity of Propagation	76%			76%			76%			76%		
Dielectric Constant	1.73			1.73			1.73			1.73		
Shielding Effectiveness	> 90 dB			> 90 dB			> 90 dB			> 90 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		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		87.7 pF/m	26.7 pF/Ft	
Inductance	0.22 uH/m	0.067 uH/Ft		0.22 uH/m	0.067 uH/Ft		0.22 uH/m	0.067 uH/Ft		0.22 uH/m	0.067 uH/Ft	
Cutoff Frequency	67 GHz			40 GHz			25 GHz			16 GHz		
Voltage Withstand	500 DC			800 DC			1500 DC			2000DC		
Peak Power	0.6 kW			1.6 kW			5.6 kW			10 kW		
Attenuation&Power Handling	Attenuation (+25° C Ambient) ; Power (+40° Ambient, Sea Level, VSWR 1:1)											
Frequency (MHz)	dB/100 m	dB/100 Ft	kW	dB/100 m	dB/100 Ft	kW	dB/100 m	dB/100 Ft	kW	dB/100 m	dB/100 Ft	kW
30	10.11	3.08	0.602	6.55	2.00	2.711	3.97	1.21	4.596	2.48	0.76	10.166
50	13.08	3.99	0.465	8.47	2.58	2.098	5.13	1.56	3.552	3.21	0.98	7.850
100	18.58	5.66	0.327	12.01	3.66	1.480	7.29	2.22	2.500	4.57	1.39	5.519
300	32.54	9.92	0.187	20.91	6.37	0.850	12.76	3.89	1.428	8.03	2.45	3.141
500	42.32	12.90	0.144	27.09	8.26	0.656	16.60	5.06	1.098	10.47	3.19	2.409
900	57.42	17.51	0.106	36.55	11.14	0.486	22.52	6.87	0.809	14.25	4.34	1.770
1000	60.67	18.50	0.100	38.57	11.76	0.461	23.79	7.25	0.766	15.07	4.59	1.674
1500	75.08	22.89	0.081	47.48	14.48	0.374	29.44	8.98	0.619	18.70	5.70	1.349
2000	87.44	26.66	0.070	55.06	16.79	0.323	34.29	10.45	0.532	21.83	6.66	1.155
3000	108.63	33.12	0.056	67.92	20.71	0.262	42.59	12.98	0.428	27.23	8.30	0.926
4000	126.94	38.70	0.048	78.90	24.05	0.225	49.76	15.17	0.366	31.93	9.73	0.790
5000	143.40	43.72	0.042	88.68	27.04	0.200	56.21	17.14	0.324	36.17	11.03	0.697
6000	158.55	48.34	0.038	97.60	29.76	0.182	62.14	18.95	0.293	40.09	12.22	0.629
8000	186.08	56.73	0.033	113.64	34.65	0.156	72.92	22.23	0.250	47.25	14.41	0.534
10000	211.00	64.33	0.029	127.98	39.02	0.139	82.68	25.21	0.220	53.78	16.40	0.469
12000	234.07	71.36	0.026	141.12	43.02	0.126	91.71	27.96	0.199	59.85	18.25	0.421
12400	238.50	72.71	0.026	143.63	43.79	0.124	93.44	28.49	0.195	61.02	18.60	0.413
13500	250.43	76.35	0.024	150.36	45.84	0.118	98.11	29.91	0.186	64.18	19.57	0.393
15000	266.13	81.14	0.023	159.17	48.53	0.112						
18000	295.92	90.22	0.021	175.74	53.58	0.101						
24000	350.70	106.92	0.017									
26500	372.10	113.45	0.016									
Attenuation at Frequency	dB/100 m=K1*sqrt(FMHz)+K2*FMHz											
K1	1.8300000			1.1918394			0.7180000			0.4480000		
K2	0.0028000			0.0008800			0.0010880			0.0008980		



Assemblies order information

FSFXXX-XXXXXX-XX.XXX

Cable Size

- 280
- 350
- 500
- 750

M: Metric system, meter

E.g.: -01.20M = 1.2meter

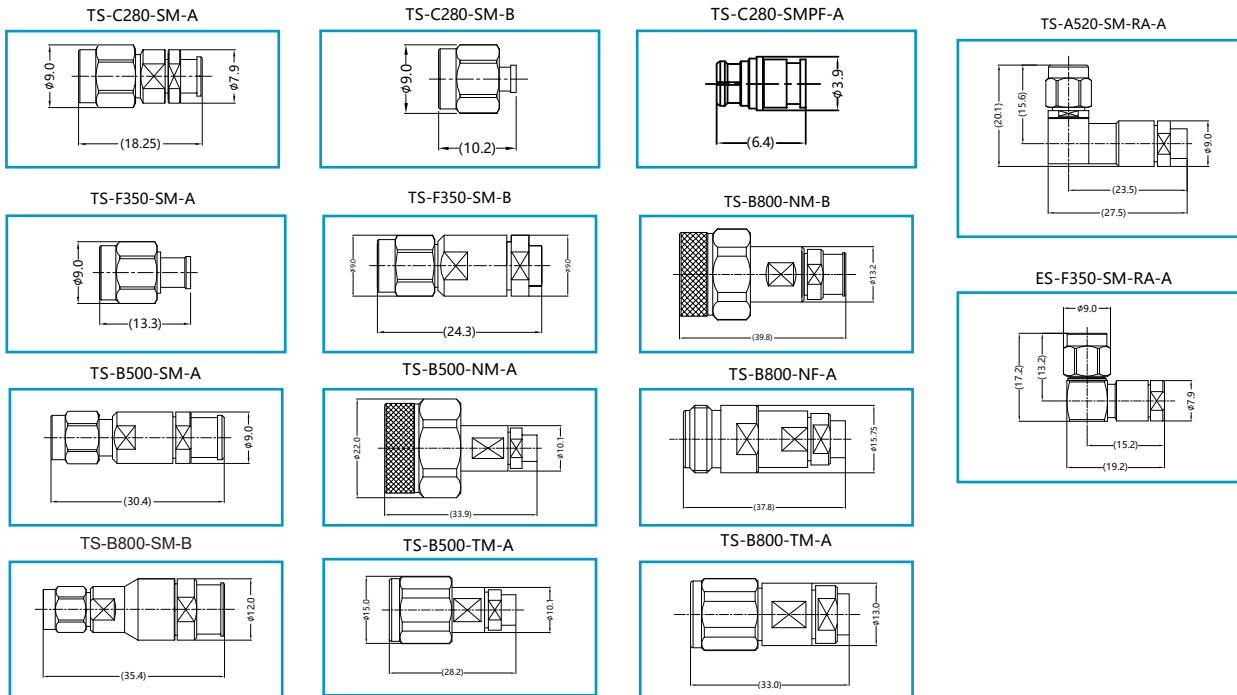
F: Imperial Standard, Ft

E.g.: 07.50F = 7.5 Ft

Connector Type, two sides independent

- SM = SMA Male
- SMR = SMA Male Right Angle
- SMPF=SMP Female
- TM = TNC Male
- NM = Type N Male
- NF = Type N Female

Connectors Information



Type	Cable	Description	P/N	Materials	Attach Method
SMA—Male	FSF—280	TS—C280—SM—A	01—MS037	Stainless Steel	Soldering inner/outer conductor
SMA—Male	FSF—280	TS—C280—SM—B	01—MS038	Stainless Steel	Soldering inner/outer conductor
SMA—Male	FSF—350	TS—F350—SM—A	01—MS048	Stainless Steel	Soldering inner/outer conductor
SMA—Male	FSF—350	TS—F350—SM—B	01—MS049	Stainless Steel	Soldering inner/outer conductor
SMA—Male—RA	FSF—350	ES—F350—SM—RA—A	01—MR021	Stainless Steel	Spring Finger inner contact Soldering outer conductor
SMA—Male	FSF—500	TS—B500—SM—A	01—MS029	Stainless Steel	Soldering inner/outer conductor
SMA—Male—RA	FSF—500	TS—A520—SM—RA—A	01—MR006	Stainless Steel	Soldering inner/outer conductor
SMA—Male	FSF—750	TS—B800—SM—B	01—MS035	Stainless Steel	Soldering inner/outer conductor
N—Male	FSF—500	TS—B500—NM—A	02—MS022	Stainless Steel	Soldering inner/outer conductor
N—Male	FSF—750	TS—B800—NM—B	02—MS029	Stainless Steel	Soldering inner/outer conductor
N—Female	FSF—750	TS—B800—NF—A	02—FS006	Stainless Steel	Soldering inner/outer conductor
TNC—Male	FSF—500	TS—B500—TM—A	09—MS006	Stainless Steel	Soldering inner/outer conductor
TNC—Male	FSF—750	TS—B800—TM—A	09—MS008	Stainless Steel	Soldering inner/outer conductor
SMP—Female	FSF—280	TS—C280—SMPF—A	07—FS001	Beryllium copper	Soldering inner/outer conductor

Note: Please contact FocusSimple if you have other connectors request.