



Typical Applications :

- * ECM&LRU systems
- * Flexible connection
- * Vehicle communication system
- * Base station
- * System interconnection
- * Wireless radio stations

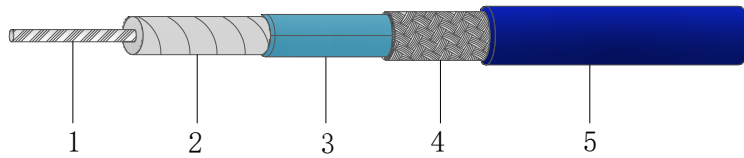
FSG Series is developed by FocuSimple as communicated with customer and well understand coaxial cable materials and construction. FSG series benefit to materials to have low loss, stable loss and low price advantage to meet Military and Wireless market requirements.

Features & Benefits:

- * Excellent loss stable
- * Cost effective product
- * Ultra Flexible
- * Long working life
- * Good mechanical
- * Short lead time

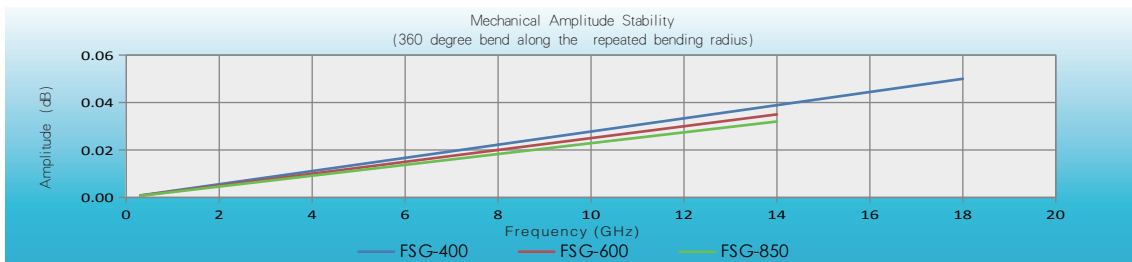
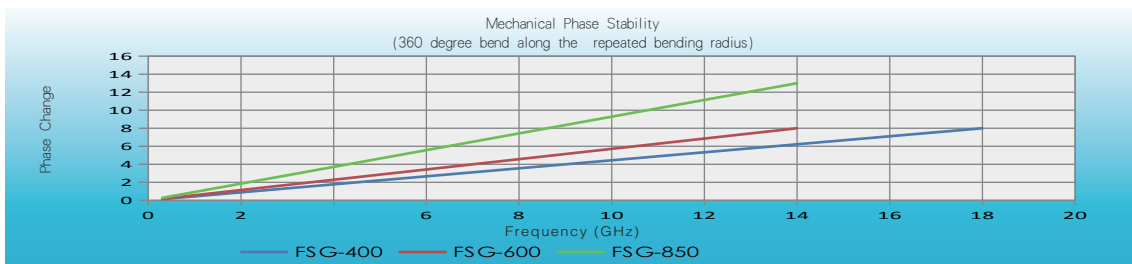
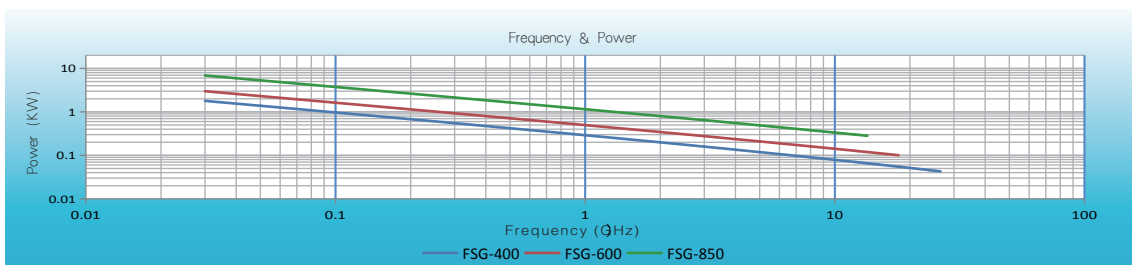
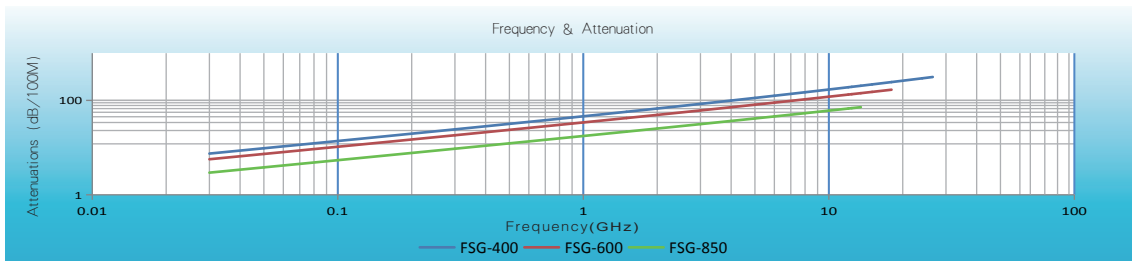


FSG Specification



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

FSG-400				FSG-600			FSG-850		
				Physical & Mechanical Specifications					
Dimensions	mm		Inch				mm		Inch
Center Conductor	0.91		0.036				2.30		0.091
Dielectric	2.55		0.100				6.60		0.260
Outer Conductor	2.65		0.104				6.68		0.263
Outer Shield	3.05		0.120				7.13		0.281
Jacket	4.00		0.157				8.20		0.323
Bend Radius, minimum	16		0.630				35		1.378
Bend Radius, repeated	40		1.57				82		3.23
Weight	30 g/m		.020 lbs/ft				110 g/m		.074 lbs/ft
Temperature Range	T _i : -55° /85° C (-67° /185° 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	> 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	
Capacitance	87.7 pF/m	26.7 pF/Ft		87.7 pF/m	26.7pF/Ft		87.7 pF/m	26.7pF/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	
Cutoff Frequency	41 GHz			25 GHz			16 GHz		
Voltage Withstand	800 DC			1500 DC			2000 DC		
Peak Power	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
30	7.47	2.28	1.793	5.66	1.73	2.992	2.95	0.90	6.878
50	9.68	2.95	1.383	7.33	2.23	2.311	3.81	1.16	5.316
100	13.79	4.21	0.971	10.42	3.18	1.627	5.41	1.65	3.744
300	24.34	7.42	0.550	18.26	5.57	0.928	9.47	2.89	2.141
500	31.82	9.70	0.421	23.77	7.25	0.713	12.30	3.75	1.647
900	43.51	13.26	0.308	32.28	9.84	0.525	16.67	5.08	1.216
1000	46.04	14.04	0.291	34.11	10.40	0.497	17.61	5.37	1.151
1500	57.37	17.49	0.233	42.25	12.88	0.401	21.77	6.64	0.931
2000	67.19	20.49	0.199	49.25	15.01	0.344	25.33	7.72	0.800
3000	84.25	25.69	0.159	61.26	18.68	0.277	31.42	9.58	0.645
4000	99.19	30.24	0.135	71.65	21.84	0.236	36.67	11.18	0.553
5000	112.77	34.38	0.119	81.01	24.70	0.209	41.37	12.61	0.490
6000	125.39	38.23	0.107	89.64	27.33	0.189	45.70	13.93	0.443
8000	148.59	45.30	0.090	105.34	32.12	0.161	53.55	16.33	0.378
10000	169.87	51.79	0.079	119.59	36.46	0.142	60.63	18.49	0.334
12000	189.80	57.87	0.071	132.79	40.49	0.128	67.18	20.48	0.302
12400	193.65	59.04	0.069	135.33	41.26	0.125	68.43	20.86	0.296
13500	204.05	62.21	0.066	142.17	43.34	0.119	71.81	21.89	0.282
15000	217.82	66.41	0.061						
18000	244.18	74.45	0.055						
Attenuation at Frequency	dB/100 m=K1*sqrt(FMHz)+K2*FMHz								
K1	1.3437405			1.0245600			0.5339645		
K2	0.0035500			0.0017130			0.0007236		



Assemblies order information

FSGXXX-XXXXXX-XX.XXX

M: Metric system, meter
E.g.: -01.20M = 1.2meter
F: Imperial Standard, Ft
E.g.: 07.50F = 7.5 Ft

Cable Size

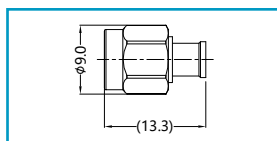
- 400
- 600
- 850

Connector Type, two sides independent

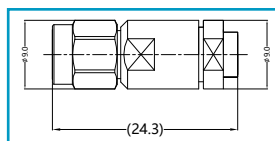
- SM = SMA Male
- NM = Type N Male

Connectors Information

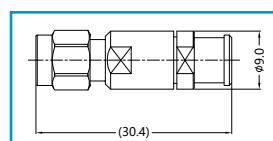
TS-F350-SM-A



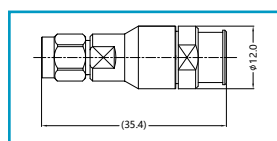
TS-F350-SM-B



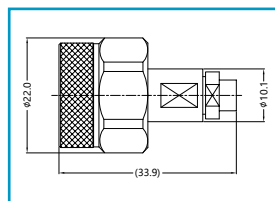
TS-B500-SM-A



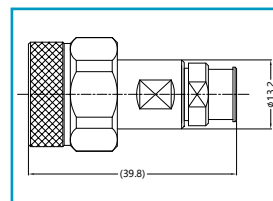
TS-B800-SM-B



TS-B500-NM-A



TS-B800-NM-B



Type	Cable	Description	P/N	Materials	Attach Method
SMA-Male	FSG-400	TS-F350-SM-A	01-MS048	Stainless Steel	Soldering inner/outer conductor
SMA-Male	FSG-400	TS-F350-SM-B	01-MS049	Stainless Steel	Soldering inner/outer conductor
SMA-Male	FSG-600	TS-B500-SM-A	01-MS029	Stainless Steel	Soldering inner/outer conductor
SMA-Male	FSG-850	TS-B800-SM-B	01-MS035	Stainless Steel	Soldering inner/outer conductor
N-Male	FSG-600	TS-B500-NM-A	02-MS022	Stainless Steel	Soldering inner/outer conductor
N-Male	FSG-850	TS-B800-NM-B	02-MS029	Stainless Steel	Soldering inner/outer conductor

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