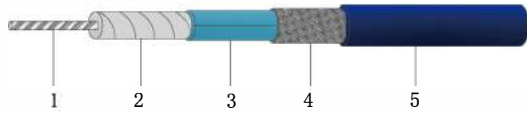




➤ Product features

- Cost effective product
- Ultra-Flexible
- Long working life
- Short lead time

FSG Series is specially designed by Maxwellon after communicating with customers. And based on the good understanding of coaxial cable materials and construction, this stable low loss, low cost cable becomes a wise option for vehicle and wireless market.

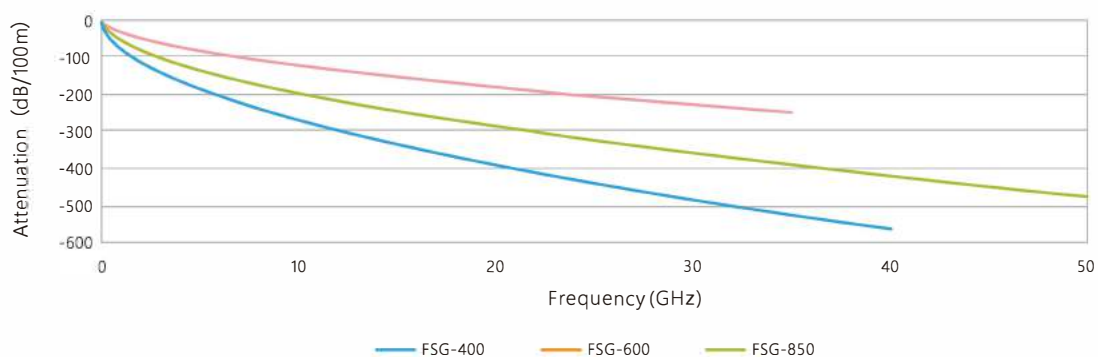


- | | | | |
|--------------------|-----------------------------|----------------|----------|
| 1 Center Conductor | Stranded SPC | 4 Outer Shield | SPC Wire |
| 2 Dielectric | PTFE | 5 Jacket | PUR |
| 3 Outer Conductor | Self-Adhesive Aluminum Foil | | |

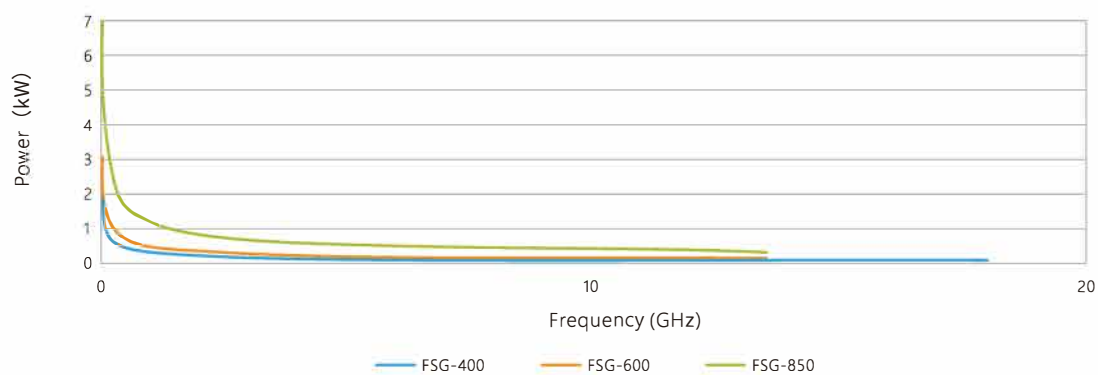
	FSG-400			FSG-600			FSG-850		
Physical & Mechanical Specifications									
Dimensions	mm	Inch		mm	Inch		mm	Inch	
Jacket	4.00	0.157		6.00	0.236		8.20	0.323	
Bend Radius: Installation	16	0.630		20	0.787		35	1.378	
Bend Radius: Repeated	40	1.575		60	2.362		82	3.228	
Weight	30 g/m	0.020 lbs/ft		63 g/m	0.042 lbs/ft		125 g/m	0.084 lbs/ft	
Temperature Range				-55 ~ +85°C (-67 ~ +185°F)					
Electrical Specifications									
Operating Frequency	18GHz			13.5GHz			13.5GHz		
Max Phase Stability(±°)	±10			±5			±5		
MaxAmplitudeStability(±dB)	±0.1			±0.1			±0.1		
Impedance	50Ω								
Shielding Effectiveness	> 90 dB								
Velocityof Propagation	76%								
Attenuation & Power Handling	Attenuation (+25°C Ambient) & Power Handing(+40°C Ambient; Sea Level; VSWR1:1)								
Frequency (MHZ)	dB/m	dB/Ft	kW	dB/m	dB/ Ft	kW	dB/ m	dB/Ft	kW
1000	0.460	0.140	0.291	0.341	0.104	0.497	0.176	0.054	1.151
2000	0.672	0.205	0.199	0.492	0.150	0.344	0.253	0.077	0.800
8000	1.486	0.453	0.090	1.053	0.321	0.161	0.535	0.163	0.378
10000	1.699	0.518	0.079	1.196	0.365	0.142	0.606	0.185	0.334
18000	2.442	0.744	0.055						
Attenuation at Frequency	dB/m= $\frac{K1*\sqrt{FMHz}+K2*FMHz}{100}$								
K1	1.3437405			1.0245600			0.5339645		
K2	0.0035500			0.0017130			0.0007236		



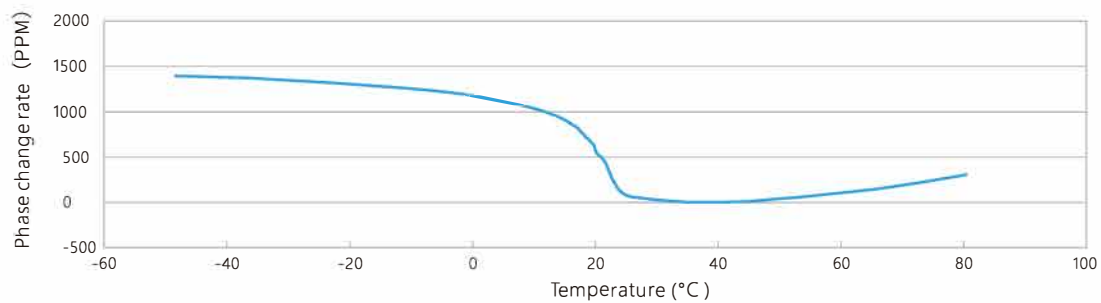
Frequency & Attenuation



Frequency & Power

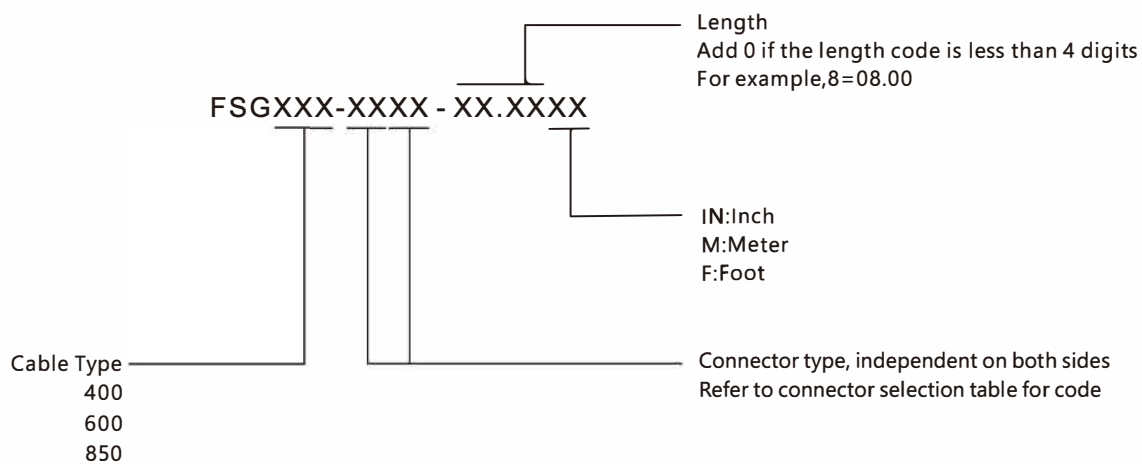


Temperature Phase (PPM)





Assembly Selection Information



For example: FSG400-SMNM-01.00M

Optional Connectors

Connector Code	Connection Type	Operating Frequency (GHz)	FSG-400	FSG-600	FSG-850	Typical VSWR	Max VSWR
SM	SMA Male	26.5GHz	○			1.30	1.35
		18GHz		○	○	1.30	1.35
NM	N Male	18GHz	○	○	○	1.30	1.35

Note:

● = stocked and ○ = designed but not stocked.