

# FSG-400

P/N 9301

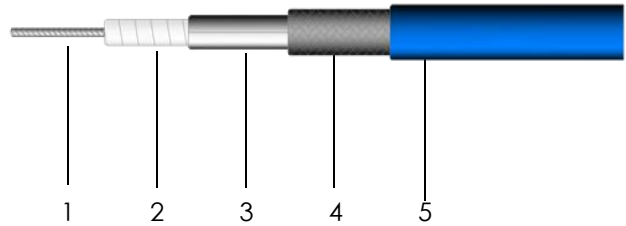


## Ultra soft and low loss economical type RF cable

Ver B Release Date Aug,2017

### Features&Benefits

- LD PTFE Tape+Al Tape
- Ultra-low loss
- Good price performance
- Good softness



### Construction Specification

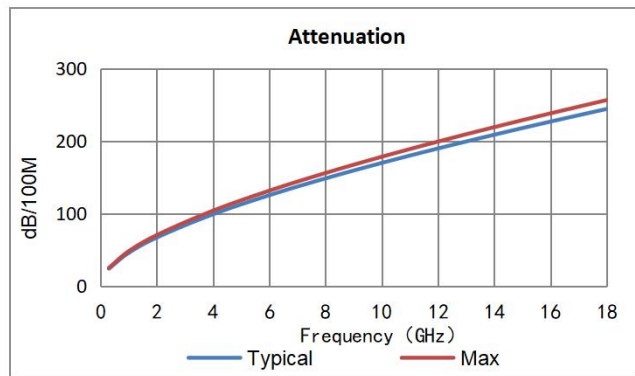
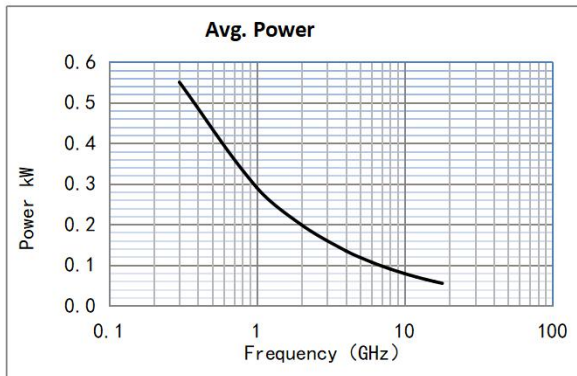
	Description	Size (mm)	Tol.	Materials
1	Center conductor	0.91	±0.02	19End Stranded Silver Plated Copper
2	Dielectric	2.61	±0.05	LD PTFE
3	Outer conductor	2.73	±0.05	Al Tape
4	Outer shield	3.18	±0.10	Silver Plated Copper
5	Jacket	4.00	±0.15	Blue PUR

### Mechanical&Environmental Specifications

Bend Radius:installation (mm)	16
Bend Radius:repeated (mm)	40
Weight (g/m)	30
Temp, Operating&Installation (°C)	-55~85
Temp, Storage (°C)	-55~85

### Electrical Specifications

Operation Frequency (GHz)	18
Impedance (Ohms)	50
Velocity of Propagation	76%
Shielding Effectiveness (dB)	90
Voltage Withstand (V,DC)	800



### Attenuation (Typical@25°C&VSWR=1.0) &Power (VSWR=1.0;40°C;Sea Level)

Frequency MHz	300	1000	2000	4000	6000	8000	10000	12000	14000	16000	18000
dB/100 m	24.3	46.0	67.2	99.2	125.4	148.6	169.9	189.8	208.7	226.8	244.2
Avg.Power kW	0.550	0.291	0.199	0.135	0.107	0.090	0.079	0.071	0.064	0.059	0.055
	K1= 1.3437405					K2= 0.0035500					

$$\text{Calculate Attenuation} = K1 * \sqrt{\text{FMHz}} + K2 * \text{FMHz}$$

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