

# FSG-850

P/N 9304

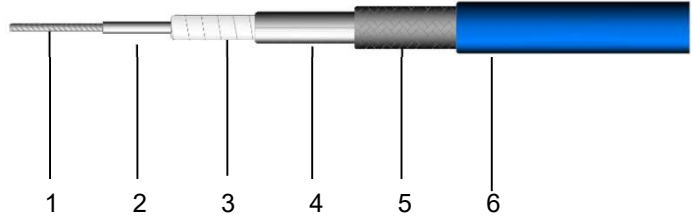


## Ultra soft and low loss economical type RF cable

Ver C Release Date Jul,2017

### Features&Benefits

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



### Construction Specification

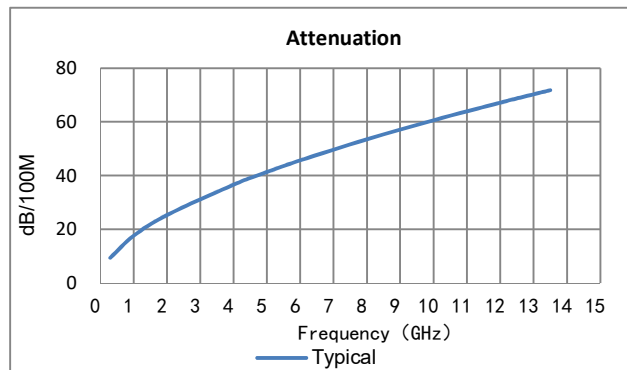
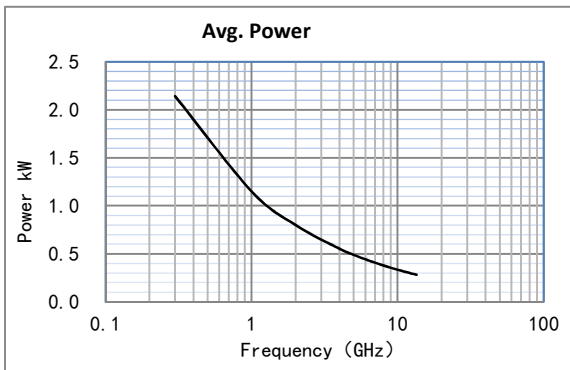
	Description	Size (mm)	Tol.	Materials
1	Center conductor	2.30	±0.03	19Ends Stranded Silver Plated Copper
2	insulation	2.45	±0.05	FEP
3	Dielectric	6.60	±0.05	LD PTFE
4	Outer conductor	6.68	±0.07	Al Tape
5	Outer shield	7.25	±0.12	Silver Plated Copper
6	Jacket	8.20	±0.15	Blue PUR

### Mechanical&Environmental Specifications

Bend Radius:installation (mm)	35
Bend Radius:repeated (mm)	82
Weight (g/m)	125
Temp, Operating&Installation (°C)	-55 ~ 85
Temp, Storage (°C)	-55 ~ 85

### Electrical Specifications

Operation Frequency (GHz)	13.5
Impedance (Ohms)	50
Velocity of Propagation	76%
Shielding Effectiveness (dB)	90
Voltage Withstand (V,DC)	2000



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

Frequency MHz	300	1000	2000	4000	5000	6000	8000	10000	12000	13000	13500
dB/100 m	9.5	17.6	25.3	36.7	41.4	45.7	53.5	60.6	67.2	70.3	71.8
Avg.Power kW	2.141	1.151	0.800	0.553	0.490	0.443	0.378	0.334	0.302	0.288	0.282

$$K1 = 0.5339645$$

$$K2 = 0.0007236$$

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

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