

# FSD-120-TP

P/N 9606

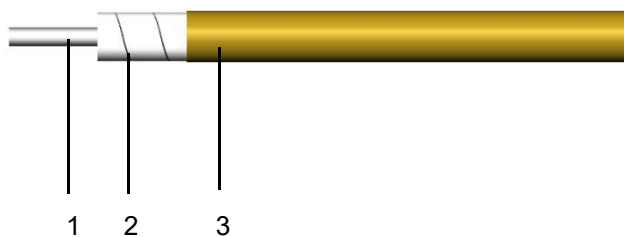
## High Performance Low Loss Semi-Rigid Coax Cable

Ver A Release Date Jan, 2013



### Features&Benefits

- LD-PTDE Tape Wrapping Core
- Ultra Low Loss, Excellent size stable vs. temp



### Construction Specification

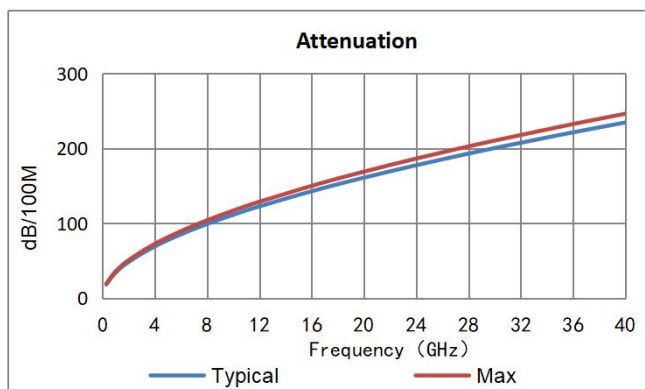
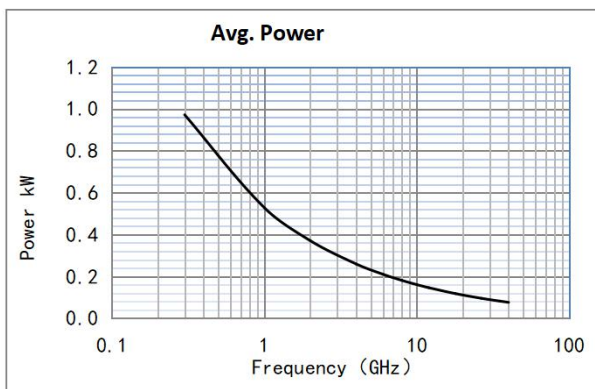
	Description	Size (mm)	Tol.	Materials
1	Center conductor	0.91	±0.02	SPC
2	Dielectric	2.70	±0.05	LD PTFE
3	Outer conductor	3.05	±0.06	Seamless Copper Tube Tin Plating

### Mechanical&Environmental Specifications

Bend Radius:installation (mm)	10.5
Bend Radius:repeated (mm)	N/A
Weight (g/m)	35
Temp, Operating&Installation (°C)	-60~250
Temp, Storage (°C)	-65~250

### Electrical Specifications

Operation Frequency (GHz)	40
Impedance (Ohms)	50
Velocity of Propagation	76%
Shielding Effectiveness (dB)	165
Voltage Withstand (V,DC)	1000



### 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	18000	26500	35000	40000
dB/100 m	18.5	34.0	48.4	69.1	85.3	99.1	111.4	122.7	152.2	187.4	218.0	234.6
Avg.Power kW	0.972	0.528	0.371	0.260	0.210	0.181	0.161	0.146	0.118	0.096	0.082	0.076
	K1= 1.0550000					K2= 0.0005904						

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

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