

# FSD-141L-TM

P/N 9613

## 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

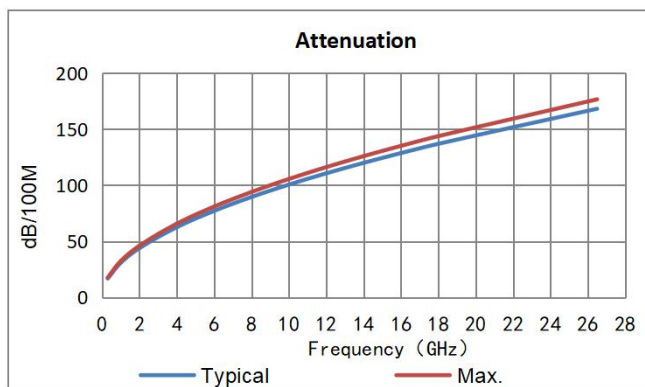
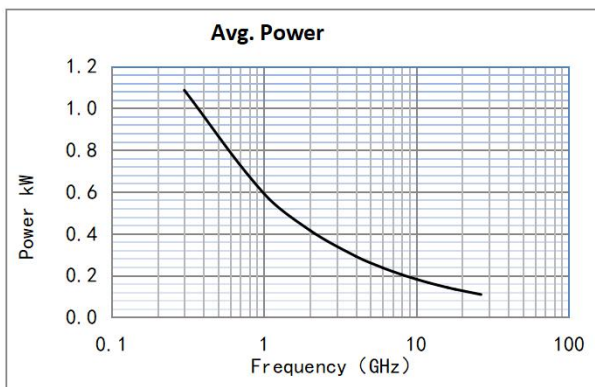
	Description	Size (mm)	Tol.	Materials
1	Center conductor	1.05	±0.02	SPC
2	Dielectric	3.00	±0.05	LD PTFE
3	Outer conductor	3.58	±0.06	Tri-Metal Plated Copper

### Mechanical&Environmental Specifications

Bend Radius:installation (mm)	12.5
Bend Radius:repeated (mm)	N/A
Weight (g/m)	45
Temp, Operating&Installation (°C)	-60~250
Temp, Storage (°C)	-65~250

### Electrical Specifications

Operation Frequency (GHz)	26.5
Impedance (Ohms)	50
Velocity of Propagation	82%
Shielding Effectiveness (dB)	165
Voltage Withstand (V,DC)	1300



### 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	26500
dB/100 m	16.8	30.8	43.9	62.5	77.1	89.5	100.5	110.6	119.9	128.6	136.9	168.1
Avg.Power kW	1.086	0.591	0.415	0.291	0.236	0.204	0.181	0.165	0.152	0.142	0.133	0.108
	K1= 0.9611450					K2= 0.0004396						

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

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