

# SPT-450

High Performance Microwave Coax Cable

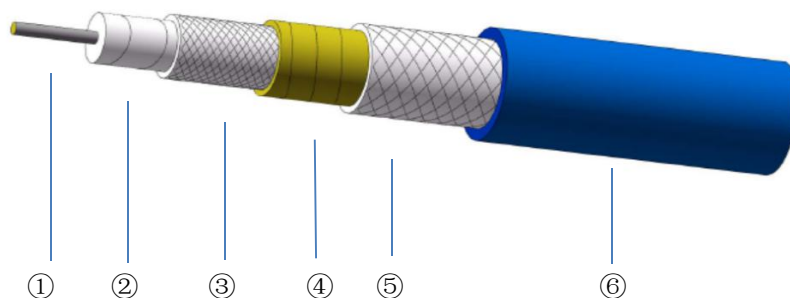
## Product Description

Superlink SPT series coaxial cable has excellent phase stability while temperature vary in a wide range. With a ingenious multi-layer shielding technique its shielding effectiveness reach to 100dB. It has been applied to microwave interconnection system for aircraft, ship, and commercial telecom. It can keep high reliability after long bending life.

## Feature & Benefit

- 76%Vp PTFE Tape+SPC Foil+Tri-Sheild
- Low Loss, Better bending performance,Durable
- Equivalent to SFT-142
- Replace to HP160s, UFA147A, SUCOFLEX-102

## Product Structure



	①Center Conductor	②Dielectric	③Outer Conductor	④Inner Layer	⑤Outer shield	⑥Jacket
Material	SPC	LD PTFE	SPC	Aluminium Foil	SPC	FEP
Size (mm)	1.02±0.02	3.05±0.05	3.25±0.05	3.43±0.05	3.85±0.08	4.50±0.15

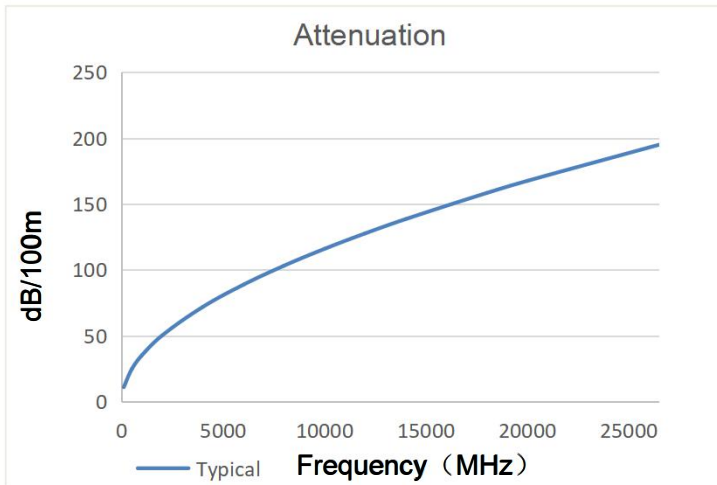
## Specifications

Impedance	50Ω
Operation Frequency	26.5GHz
Velocity of Propagation	76%
Shielding Effectiveness	100dB
Voltage Withstand	1000V,DC
Time Delay	4.38ns/m
Phase Stability(Bending)	±8° 26.5GHz
Amplitude Stability	±0.15dB 26.5GHz
Bend Radius:repeated	45mm
Bend Radius:installation	20mm
Weight	50g/m
Temp, Operating&Installation	-55~165℃
Temp,Storage	-65~200℃

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## Attenuation (Typical@25°C VSWR=1.0)



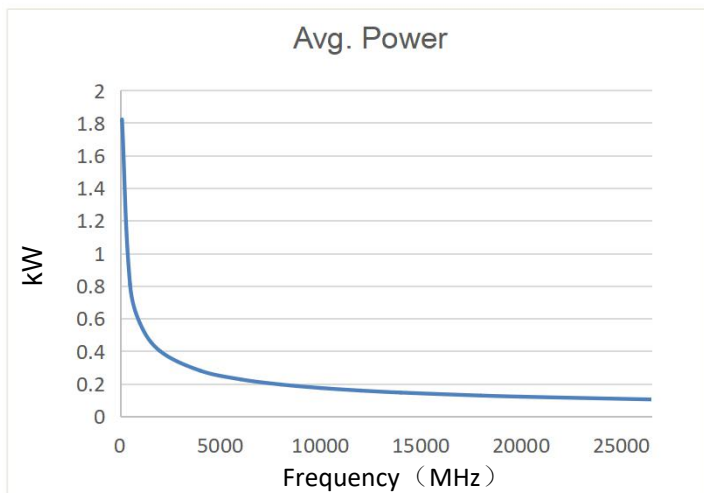
Frequency(MHz)	Attenuation (dB/100m)
100	11.1
500	24.9
1000	35.4
2000	50.4
4000	71.9
6000	88.8
8000	103.2
10000	116.0
12000	127.7
14000	138.5
18000	158.3
20000	167.5
26500	194.9

$$K1=1.0994853$$

$$K2=0.0006019$$

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

## Power (40°C VSWR=1.0 Sea Level)



Frequency(MHz)	Avg.Power (kW)
100	1.821
500	0.809
1000	0.569
2000	0.400
4000	0.280
6000	0.227
8000	0.195
10000	0.174
12000	0.158
14000	0.145
18000	0.127
20000	0.120
26500	0.103

Ver

A-1