

# SPT-600

High Performance Microwave Coax Cable

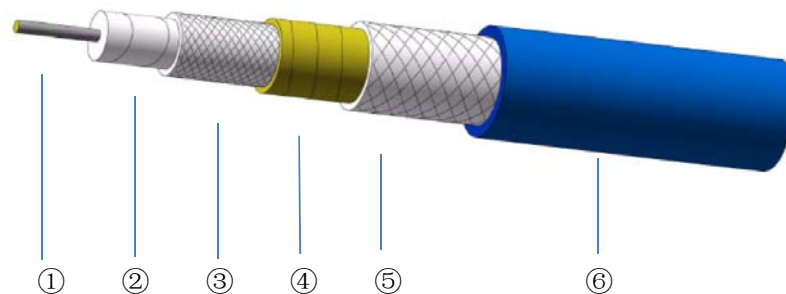
## Product Description

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-304
- Replace to HP305s

## Product Structure

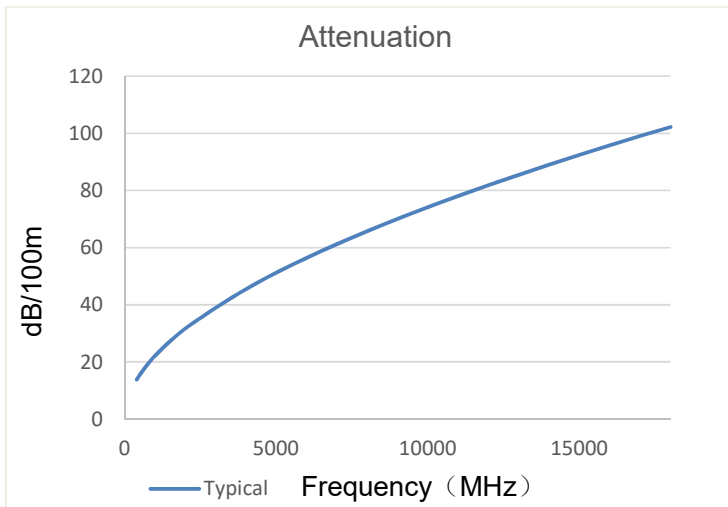


	①Center Conductor	②Dielectric	③Outer Conductor	④Inner Layer	⑤Outer shield	⑥Jacket
Material	SPC	LD PTFE	SPC	Aluminium Foil	SPC	FEP
Size (mm)	1.57±0.03	4.72±0.06	5.02±0.06	5.10±0.10	5.55±0.12	6.00±0.15

## Specifications

Impedance	50Ω
Operation Frequency	18GHz
Velocity of Propagation	76%
Shielding Effectiveness	100dB
Voltage Withstand	2000V,DC
Time Delay	4.38ns/m
Phase Stability(Bending)	±10° 18GHz
Amplitude Stability	±0.1dB 18GHz
Bend Radius:repeated	60mm
Bend Radius:installation	32mm
Weight	90g/m
Temp, Operating&Installation	-55~200℃
Temp,Storage	-65~200℃

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



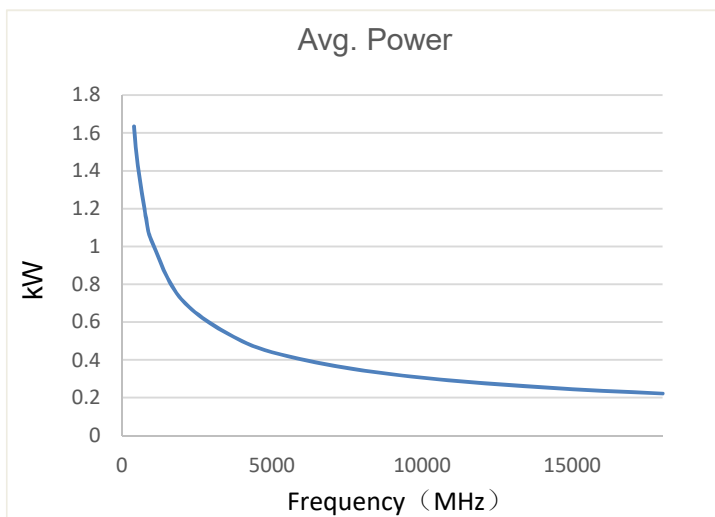
Frequency(MHz)	Attenuation (dB/100m)
400	13.9
500	15.6
800	19.8
1000	22.2
2000	31.7
4000	45.5
6000	56.4
8000	65.8
10000	74.2
12000	81.9
14000	89.1
16000	95.8
18000	102.2

$$K1= 0.682743$$

$$K2= 0.000591$$

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

## Power (40°C VSWR=1.0 Sea Level)



Frequency(MHz)	Avg.Power (kW)
400	1.635
500	1.459
800	1.148
1000	1.024
2000	0.716
4000	0.499
6000	0.402
8000	0.345
10000	0.306
12000	0.277
14000	0.255
16000	0.237
18000	0.222

Ver A-1