

# SPB-360-P

High Performance Microwave Coax Cable

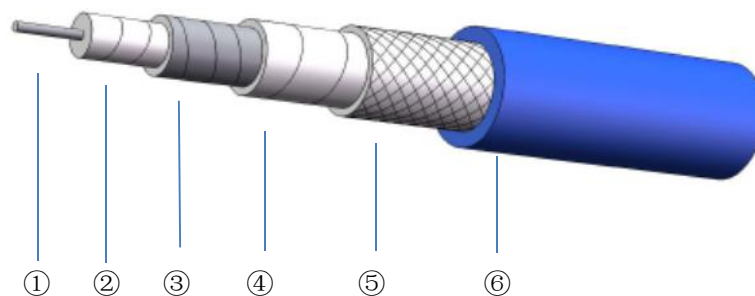
## Product Description

Superlink SPB series coaxial cable is constructed with low density PTFE dielectric and silver plated copper foil and has very low loss. It keeps a high phase stability and amplitude stability while bending. Performance hardly vary in broad frequency range. It can be applied to most of harsh conditions which require strict standard like military radar, electronic warfare and airborne equipment.

## Feature & Benefit

- 74%Vp PTFE+SPC Foil
- Low Loss

## Product Structure



	①Center Conductor	②Dielectric	③Outer Conductor	④Inner Layer	⑤Outer shield	⑥Jacket
Material	SPC	LD PTFE	SPC	PTFE	SPC	FEP
Size (mm)	0.72±0.03	2.21±0.05	2.38±0.05	2.68±0.05	3.14±0.10	3.60±0.15

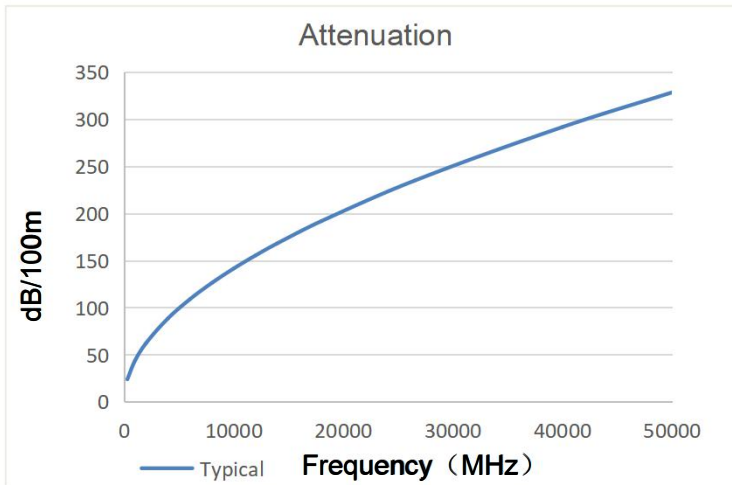
## Specifications

Impedance	50Ω
Operation Frequency	50GHz
Velocity of Propagation	74%
Shielding Effectiveness	90dB
Voltage Withstand	1000V,DC
Time Delay	4.50ns/m
Phase Stability(Bending)	±5° 40GHz
Amplitude Stability	±0.05dB 40GHz
Bend Radius:repeated	36mm
Bend Radius:installation	14mm
Weight	34g/m
Temp, Operating&Installation	-55~165°C
Temp, Storage	-65~165°C

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



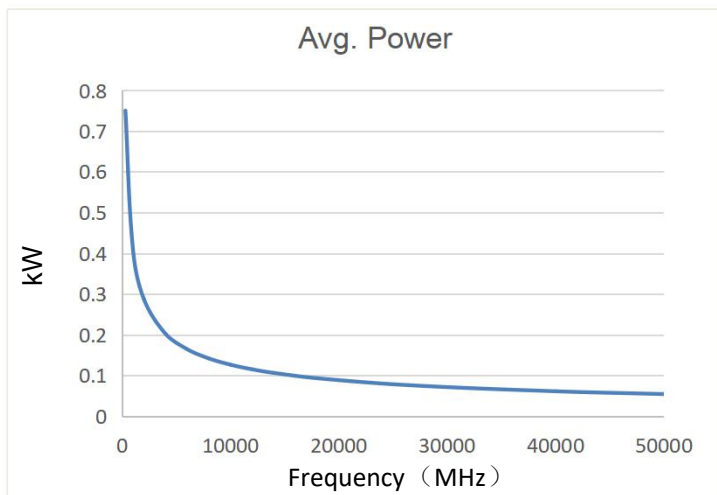
Frequency(MHz)	Attenuation (dB/100m)
300	23.9
1000	43.8
2000	62.2
4000	88.5
6000	108.8
8000	126.1
10000	141.5
12000	155.4
14000	168.3
18000	191.8
26500	234.8
40000	291.7
50000	328.5

$$K1= 1.370735$$

$$K2= 0.000440$$

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

## Power (40°C VSWR=1.0 Sea Level)



Frequency(MHz)	Avg.Power (kW)
300	0.750
1000	0.409
2000	0.288
4000	0.202
6000	0.165
8000	0.142
10000	0.127
12000	0.115
14000	0.106
18000	0.093
26500	0.076
40000	0.061
50000	0.055

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