

SPB-750-L

High Performance Microwave Coax Cable

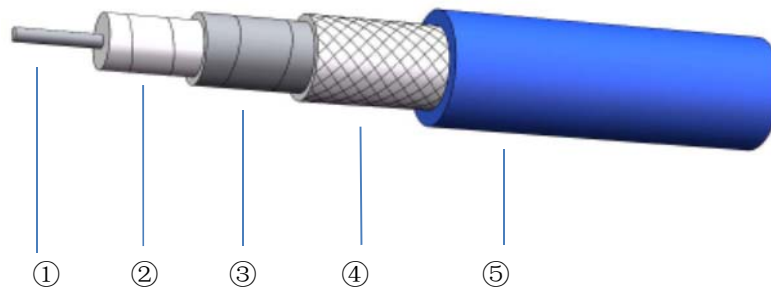
Product Description

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

- Excellent Temp Phase Stability
- 84%VP
- Ultra Light Weight

Product Structure

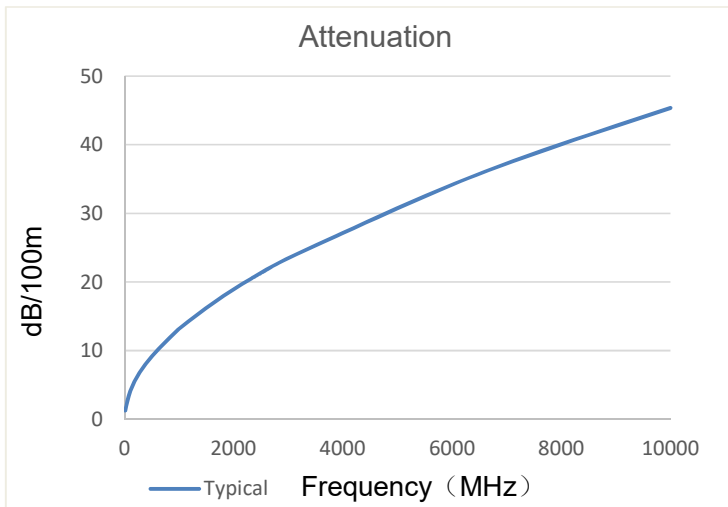


	①Center Conductor	②Dielectric	③Outer Conductor	④Outer shield	⑤Jacket
Material	SPCCA	LD PTFE	SPC	SPC	FEP
Size (mm)	2.41±0.03	6.32±0.06	6.56±0.10	6.96±0.05	7.50±0.15

Specifications

Impedance	50Ω
Operation Frequency	10GHz
Velocity of Propagation	84%
Shielding Effectiveness	90dB
Voltage Withstand	2500V,DC
Time Delay	3.97ns/m
Phase Stability(Bending)	±10° 10GHz
Phase Stability(Tem)	600PPM (-55~85°C)
Amplitude Stability	±0.1dB 10GHz
Bend Radius:repeated	60mm
Bend Radius:installation	37mm
Weight	93g/m
Temp, Operating&Installation	-55~165°C
Temp, Storage	-65~165°C

Attenuation (Typical@25°C VSWR=1.0)



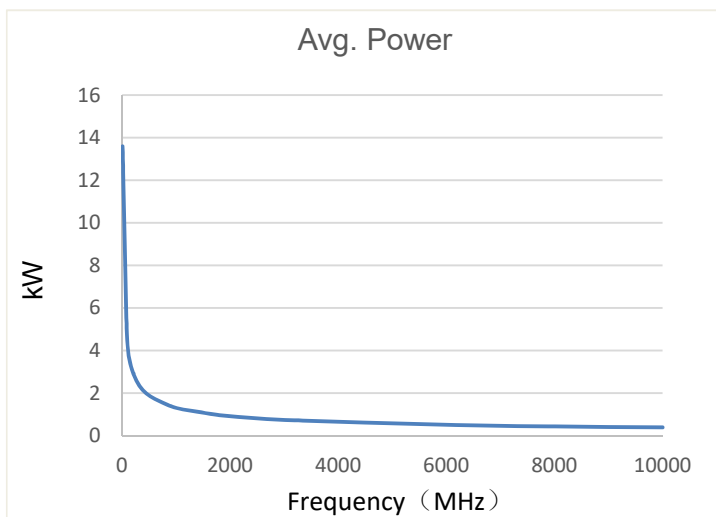
Frequency(MHz)	Attenuation (dB/100m)
10	1.3
100	4.0
220	6.0
450	8.7
900	12.5
1120	14.0
1800	17.9
2250	20.2
2500	21.3
3000	23.5
6000	34.2
8000	40.1
10000	45.4

$$K1= 0.399452$$

$$K2= 0.000542$$

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

Power (40°C VSWR=1.0 Sea Level)



Frequency(MHz)	Avg.Power (kW)
10	13.600
100	4.261
220	2.855
450	1.979
900	1.383
1120	1.235
1800	0.963
2250	0.855
2500	0.809
3000	0.734
6000	0.505
8000	0.431
10000	0.380

Ver A-1