

SPB-150

High Performance Microwave Coax Cable

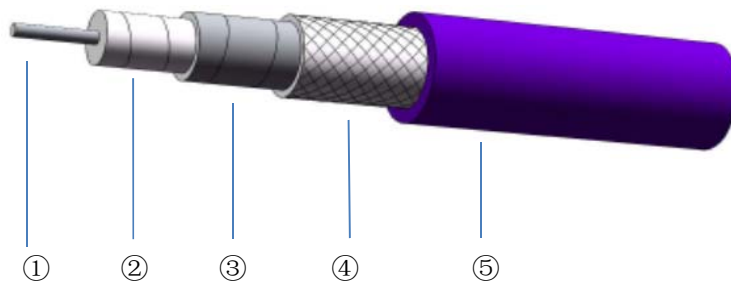
Product Description

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

- 76%Vp PTFE+SPC Foil
- Low Loss

Product Structure

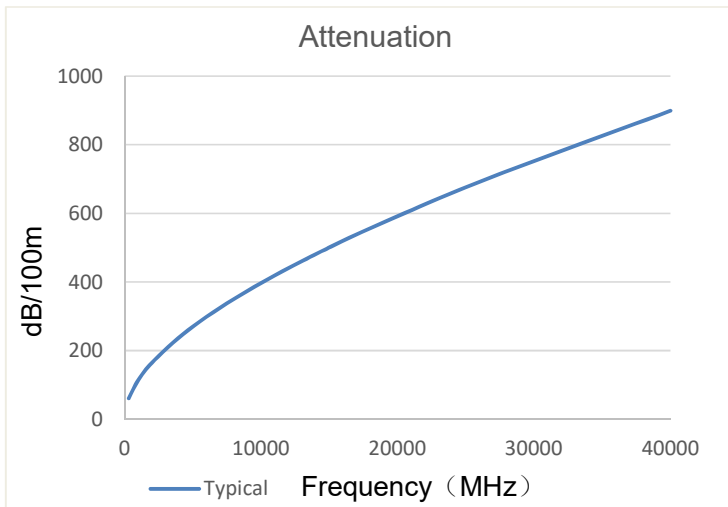


	①Center Conductor	②Dielectric	③Outer Conductor	④Outer shield	⑤Jacket
Material	SPC	LD PTFE	SPC	SPC	FEP
Size (mm)	0.31±0.02	0.94±0.05	1.12±0.05	1.33±0.05	1.50±0.07

Specifications

Impedance	50Ω
Operation Frequency	40GHz
Velocity of Propagation	76%
Shielding Effectiveness	90dB
Voltage Withstand	500V,DC
Time Delay	4.38ns/m
Phase Stability(Bending)	±10° 40GHz
Phase Stability(Tem)	600PPM (-55~85℃)
Amplitude Stability	±0.15dB 26.5GHz
Bend Radius:repeated	15mm
Bend Radius:installation	6mm
Weight	13g/m
Temp, Operating&Installation	-55~165℃
Temp, Storage	-65~165℃

Attenuation (Typical@25°C VSWR=1.0)



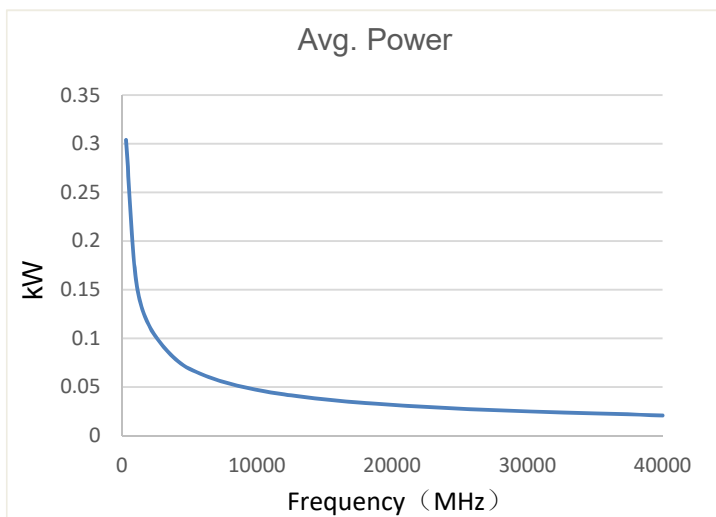
Frequency(MHz)	Attenuation (dB/100m)
300	61.3
1000	114.3
2000	164.7
4000	239.0
6000	298.5
8000	350.3
10000	397.1
12000	440.5
14000	481.2
15000	500.8
18000	556.8
26500	700.0
40000	898.9

$$K1= 3.448470$$

$$K2= 0.005230$$

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

Power (40°C VSWR=1.0 Sea Level)



Frequency(MHz)	Avg.Power (kW)
300	0.304
1000	0.163
2000	0.113
4000	0.078
6000	0.062
8000	0.053
10000	0.047
12000	0.042
14000	0.039
15000	0.037
18000	0.033
26500	0.027
40000	0.021

Ver A-1