

SPB-520

High Performance Microwave Coax Cable

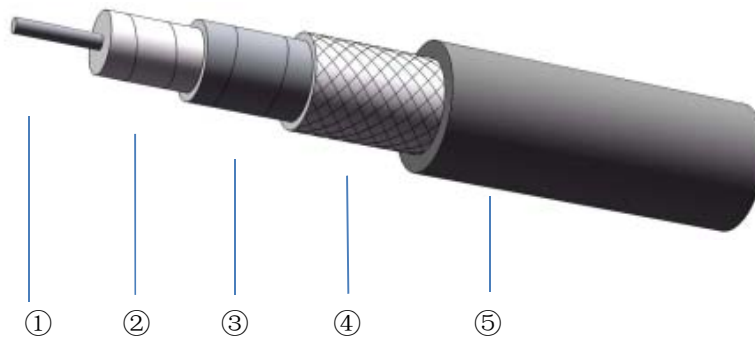
Product Description

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

- 83%Vp PTFE+SPC Foil
- Low Loss
- Equivalent to UFB205A
- Replacce to CNX3449, HF190

Product Structure



| | ①Center Conductor | ②Dielectric | ③Outer Conductor | ④Outer shield | ⑤Jacket |
|-----------|-------------------|-------------|------------------|---------------|-----------|
| Material | SPC | LD PTFE | SPC | SPC | FEP |
| Size (mm) | 1.45±0.03 | 4.00±0.05 | 4.20±0.05 | 4.75±0.05 | 5.20±0.15 |

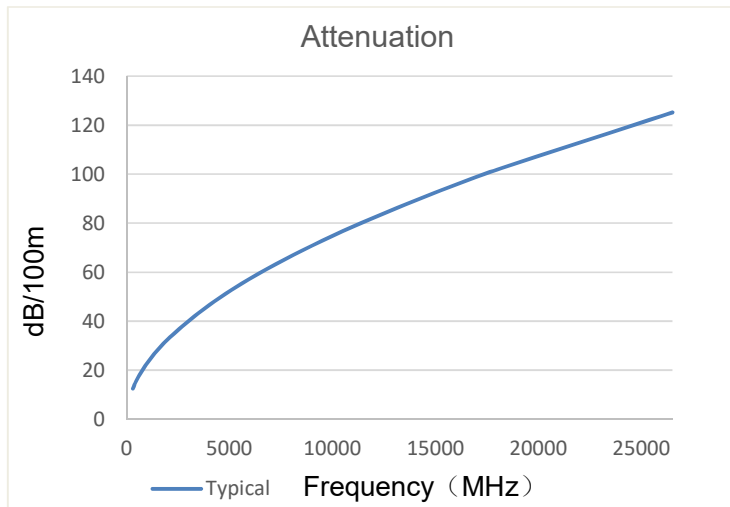
Specifications

| | |
|------------------------------|------------------|
| Impedance | 50Ω |
| Operation Frequency | 26.5GHz |
| Velocity of Propagation | 83% |
| Shielding Effectiveness | 90dB |
| Voltage Withstand | 1500V,DC |
| Time Delay | 4.02ns/m |
| Phase Stability(Bending) | ±5° 26.5GHz |
| Phase Stability(Tem) | 600PPM (-55~85℃) |
| Amplitude Stability | ±0.1dB 26.5GHz |
| Bend Radius:repeated | 50mm |
| Bend Radius:installation | 20mm |
| Weight | 65g/m |
| Temp, Operating&Installation | -55~165℃ |
| Temp,Storage | -65~165℃ |

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Attenuation (Typical@25°C VSWR=1.0)



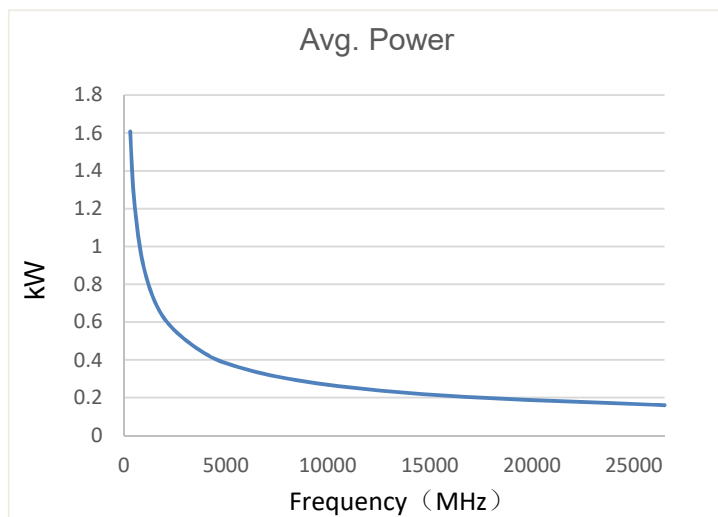
| Frequency(MHz) | Attenuation (dB/100m) |
|----------------|-----------------------|
| 300 | 12.5 |
| 500 | 16.2 |
| 1000 | 23.0 |
| 2000 | 32.7 |
| 4000 | 46.6 |
| 6000 | 57.4 |
| 8000 | 66.6 |
| 10000 | 74.8 |
| 12000 | 82.3 |
| 14000 | 89.3 |
| 16000 | 95.8 |
| 18000 | 101.9 |
| 26500 | 125.2 |

$$K1= 0.715687$$

$$K2= 0.000328$$

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

Power (40°C VSWR=1.0 Sea Level)



| Frequency(MHz) | Avg.Power (kW) |
|----------------|----------------|
| 300 | 1.608 |
| 500 | 1.243 |
| 1000 | 0.875 |
| 2000 | 0.615 |
| 4000 | 0.431 |
| 6000 | 0.350 |
| 8000 | 0.302 |
| 10000 | 0.268 |
| 12000 | 0.244 |
| 14000 | 0.225 |
| 16000 | 0.210 |
| 18000 | 0.197 |
| 26500 | 0.160 |

Ver A-1