

# Sbend-800

High Performance Microwave Coax Cable

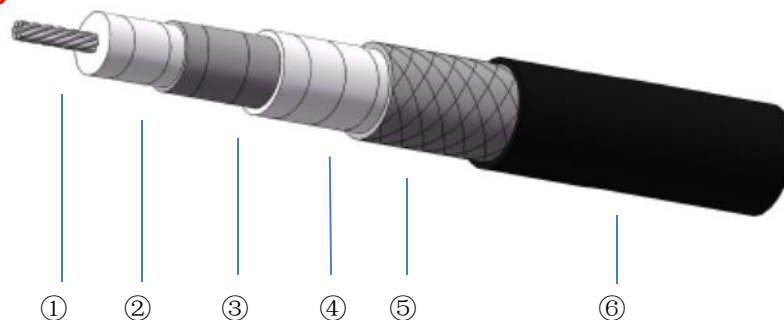
## Product Description

Surperlink Sbend series coaxial cable is an ultra-flexible phase stable cable. It is built with flexible material with rational design. Meanwhile, it has good phase stability. Attenuation and VSWR won't fluctuate rapidly while bending. It is applied to special application condition like narrow space or frequent bending.

## Feature & Benefit

- 83%Vp PTFE Tape+SPC Foil
- Multi-layer protection,excellent stability
- Excellent Softness

## Product Structure



	①Center Conductor	②Dielectric	③Outer Conductor	④Inner Layer	⑤Outer shield	⑥Jacket
Material	SPC	FEP+ LD PTFE	SPC	PTFE	SPC	PTFE
Size (mm)	2.30±0.03	6.20±0.05	6.52±0.05	6.72±0.05	7.23±0.05	8.00±0.10

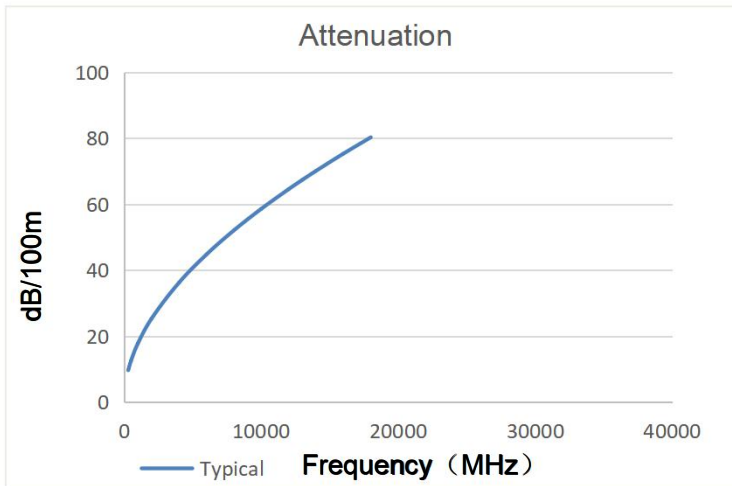
## Specifications

Impedance	50Ω
Operation Frequency	18GHz
Velocity of Propagation	83%
Shielding Effectiveness	90dB
Voltage Withstand	3600V,DC
Phase Stability(Tem)	600PPM(-55~85℃)
Phase Stability(Bending)	±6° 18GHz
Amplitude Stability	±0.1dB 18GHz
Bend Radius:repeated	80mm
Bend Radius:installation	32mm
Weight	130g/m
Temp, Operating&Installation	-55~200℃
Temp,Storage	-65~200℃

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



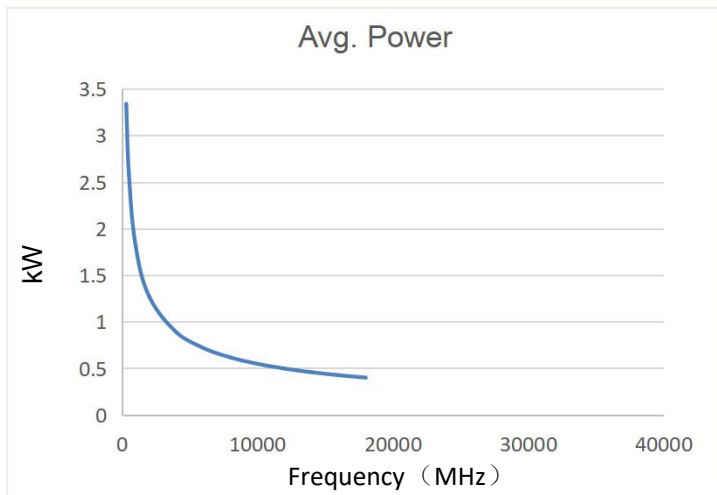
Frequency(MHz)	Attenuation (dB/100m)
300	9.6
500	12.4
1000	17.7
2000	25.2
4000	36.1
6000	44.7
8000	52.0
10000	58.5
12000	64.5
13000	67.3
14000	70.1
16000	75.3
18000	80.3

$$K1 = 0.547656$$

$$K2 = 0.0003772$$

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

## Power (40°C VSWR=1.0 Sea Level)



Frequency(MHz)	Avg.Power (kW)
300	3.340
500	2.578
1000	1.812
2000	1.270
4000	0.887
6000	0.717
8000	0.617
10000	0.548
12000	0.497
13000	0.476
14000	0.457
16000	0.426
18000	0.399

Ver A-1