

# LLF-400

High Performance Microwave Coax Cable

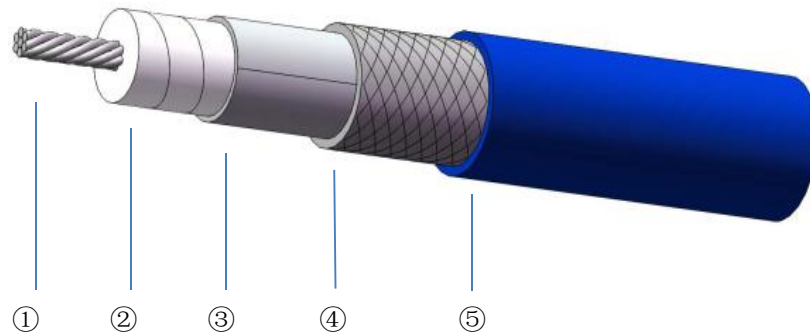
## Product Description

Superlink LLF series coaxial cable is cost-effective low loss flexible cable. It is designed to be installed in narrow and small space. The center conductor is stranded silver-plated copper which makes LLF series more flexible. It can keep phase stable while bending. Meanwhile, LLF cables offer higher operating temperature range, lower loss and better RF shielding than traditional foam PE cables.

## Feature & Benefit

- 76%Vp LD PTFE+AL Foil
- Great cost performance
- Excellent Flexibility

## Product Structure

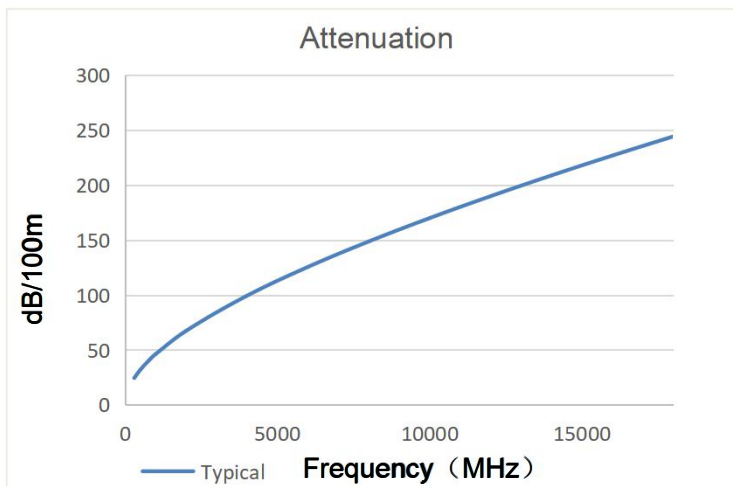


	①Center Conductor	②Dielectric	③Outer Conductor	④Outer shield	⑤Jacket
Material	SPC(Strand)	LD PTFE	AL-foil	SPC	PUR
Size (mm)	0.91±0.02	2.61±0.05	2.73±0.05	3.18±0.10	4.00±0.15

## Specifications

Impedance	50Ω
Operation Frequency	18GHz
Velocity of Propagation	76%
Shielding Effectiveness	90dB
Voltage Withstand	800V,DC
Time Delay	4.38ns/m
Phase Stability(Bending)	±10° 18GHz
Amplitude Stability	±0.10dB 18GHz
Bend Radius:repeated	40mm
Bend Radius:installation	16mm
Weight	30g/m
Temp, Operating&Installation	-55~85°C
Temp,Storage	-55~85°C

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



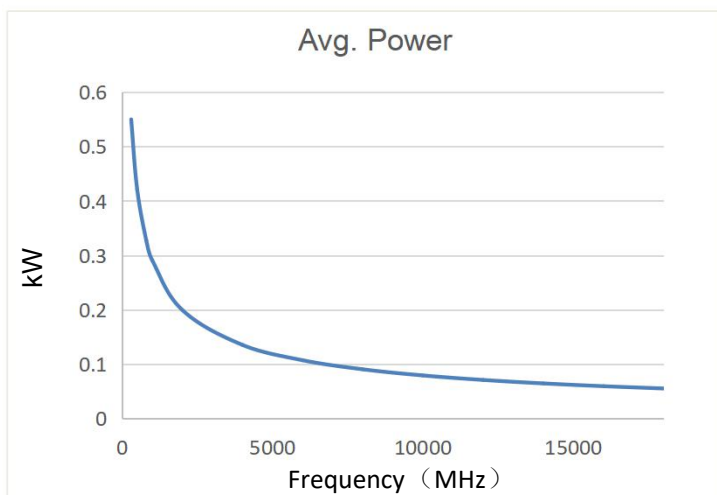
Frequency(MHz)	Attenuation (dB/100m)
300	24.3
500	31.8
800	40.8
1000	46.0
2000	67.2
4000	99.2
6000	125.4
8000	148.6
10000	169.9
12000	189.8
14000	208.7
16000	226.8
18000	244.2

$$K1= 1.343741$$

$$K2= 0.003550$$

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

## Power (40°C VSWR=1.0 Sea Level)



Frequency(MHz)	Avg.Power (kW)
300	0.550
500	0.421
800	0.328
1000	0.291
2000	0.199
4000	0.135
6000	0.107
8000	0.090
10000	0.079
12000	0.071
14000	0.064
16000	0.059
18000	0.055

Ver A-1