

# LLF-820

High Performance Microwave Coax Cable

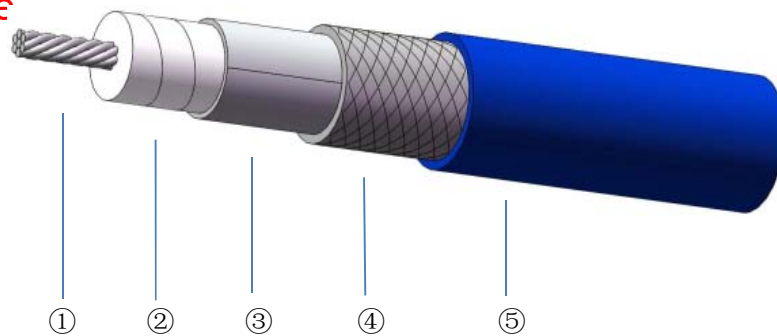
## Product Description

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

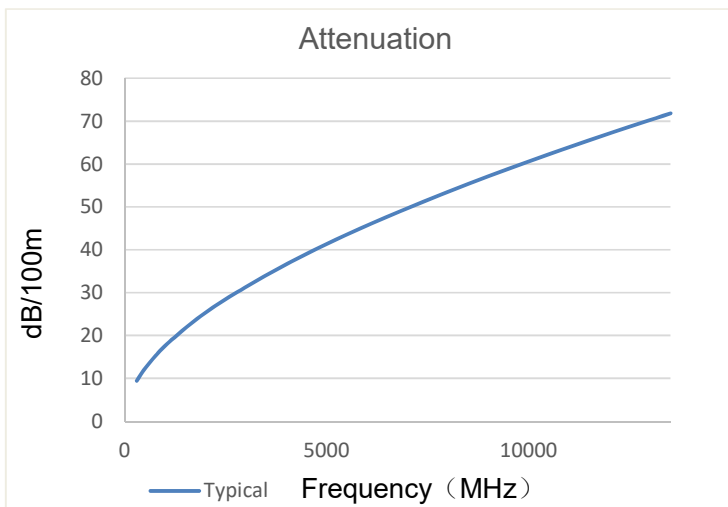


|           | ①Center Conductor | ②Dielectric | ③Outer Conductor | ④Outer shield | ⑤Jacket   |
|-----------|-------------------|-------------|------------------|---------------|-----------|
| Material  | SPC(Strand)       | LD PTFE     | AL-foil          | SPC           | PUR       |
| Size (mm) | 2.30±0.03         | 6.60±0.05   | 6.68±0.07        | 7.25±0.12     | 8.20±0.15 |

## Specifications

|                              |          |
|------------------------------|----------|
| Impedance                    | 50Ω      |
| Operation Frequency          | 13.5GHz  |
| Velocity of Propagation      | 76%      |
| Shielding Effectiveness      | 90dB     |
| Voltage Withstand            | 1500V,DC |
| Time Delay                   | 4.38ns/m |
| Bend Radius:repeated         | 82mm     |
| Bend Radius:installation     | 35mm     |
| Weight                       | 125g/m   |
| Temp, Operating&Installation | -55~85°C |
| Temp,Storage                 | -55~85°C |

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



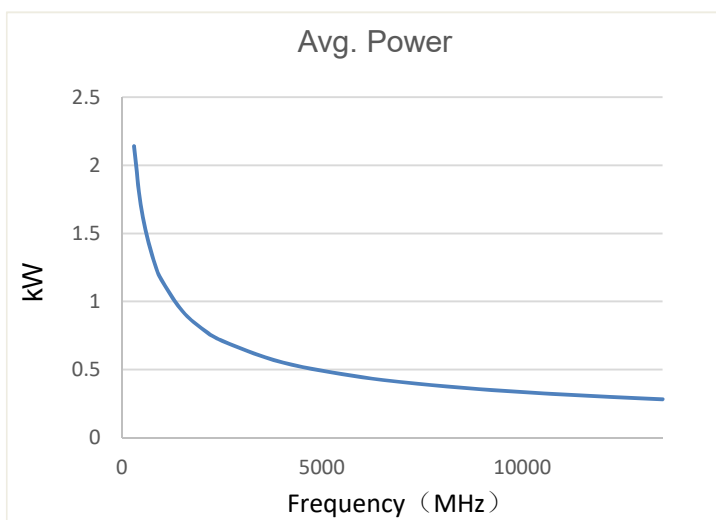
| Frequency(MHz) | Attenuation (dB/100m) |
|----------------|-----------------------|
| 300            | 9.5                   |
| 500            | 12.3                  |
| 800            | 15.7                  |
| 1000           | 17.6                  |
| 1500           | 21.8                  |
| 2000           | 25.3                  |
| 2500           | 28.5                  |
| 4000           | 36.7                  |
| 6000           | 45.7                  |
| 8000           | 53.5                  |
| 10000          | 60.6                  |
| 12000          | 67.2                  |
| 13500          | 71.8                  |

$$K1= 0.533965$$

$$K2= 0.000724$$

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

## Power (40°C VSWR=1.0 Sea Level)



| Frequency(MHz) | Avg.Power (kW) |
|----------------|----------------|
| 300            | 2.141          |
| 500            | 1.647          |
| 800            | 1.292          |
| 1000           | 1.151          |
| 1500           | 0.931          |
| 2000           | 0.800          |
| 2500           | 0.711          |
| 4000           | 0.553          |
| 6000           | 0.443          |
| 8000           | 0.378          |
| 10000          | 0.334          |
| 12000          | 0.302          |
| 13500          | 0.282          |

Ver A-1