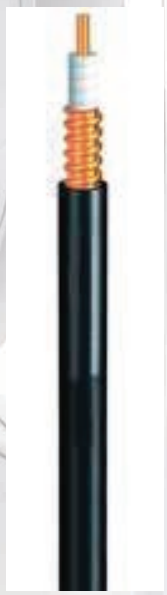
# LT-COAX-1/2-100LSZH

## Superflex 1/2” Coaxial Cable



The LT-COAX-1/2-100LSZH Superflex 1/2” Coaxial Cable is a high-performance, low-loss RF transmission cable designed for demanding communication systems. Featuring a superflexible structure, it offers excellent bendability and ease of installation in space-constrained environments. Its Low Smoke Zero Halogen (LSZH) jacket ensures enhanced fire safety and minimal toxic emissions, making it ideal for indoor and enclosed installations.

## Key Features

- Superflex design for easy installation
- Low signal loss and high performance
- LSZH jacket for fire safety
- Strong EMI/RFI shielding
- Wide RF frequency support
- Durable and long-lasting
- Standard 1/2” compatibility

## Applications

- Distributed Antenna Systems (DAS)
- Base Transceiver Stations (BTS)
- Indoor and in-building RF cabling
- Wireless communication systems
- Broadcast and satellite signal distribution

## Performance

| Frequency (MHz) | Attenuation | | Average Power Rating (Kw) |
|---|---|---|---|
| | dB / 100 m | dB / 100 ft | |
| 100 | 3.22 | 0.98 | 3.03 |
| 150 | 4.05 | 1.23 | 2.39 |
| 200 | 4.65 | 1.42 | 2.11 |
| 280 | 5.65 | 1.72 | 1.69 |
| 450 | 7.20 | 2.19 | 1.37 |
| 800 | 9.86 | 3.01 | 1.00 |
| 900 | 10.56 | 3.22 | 0.94 |
| 1000 | 11.15 | 3.40 | 0.88 |
| 1500 | 13.80 | 4.21 | 0.70 |
| 1800 | 15.55 | 4.74 | 0.63 |
| 2000 | 16.40 | 5.00 | 0.59 |
| 2200 | 17.35 | 5.29 | 0.56 |
| 2400 | 18.10 | 5.52 | 0.53 |
| 2500 | 18.50 | 5.64 | 0.52 |
| 3000 | 20.90 | 6.37 | 0.48 |

## Specification

| Electrical Specifications | |
|---|---|
| Capacitance | 80.0 pF/m |
| Impedance | 50 ± 1 Ω |
| Velocity | 82% |
| RF Peak Voltage | 1.13 kV |
| Peak Power Rating | 19 kW |
| Cut-off Frequency | 12.5 GHz |
| Shielding Effectiveness >10 MHz | >120 dB |
| Insulation Resistance | 5000 mΩ • km |
| VSWR | 82% |
| 0.8 ~ 1.0 GHz | ≤ 1.13 |
| 1.7 ~ 2.2 GHz | ≤ 1.13 |
| 2.2 ~ 2.7 GHz | ≤ 1.15 |
| **Environmental Specifications** | |
| Storage Temperature | -55 °C ~ +85 °C |
| Installation Temperature | -40 °C ~ +60 °C |
| Operating Temperature | -55 °C ~ +85 °C |
| **Construction Materials** | |
| Inner Conductor | Copper-clad Aluminum Wire |
| Dielectric | Physical Foam Polyethylene |
| Outer Conductor | Helical Copper Tube |
| Jacket | Low Smoke Halogen-free retardant |
| **Physical Dimensions** | |
| Minimum Bending Radius | - |
| Single Bending | 17 mm |
| Repeated Bending | 55 mm |
| Minimum Number of Bends | 15 |
| Tensile Strength | 600 n |