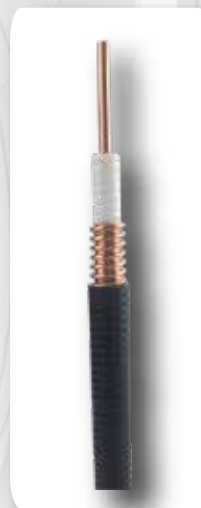


LT-COAX-1/2S-100LSZH

SUPERFLEX 1/2-INCH COAXIAL CABLE

The LT-COAX-1/2S-100LSZH is a super flexible 1/2-inch coaxial cable designed for high-performance RF applications. With a low smoke, halogen-free jacket (LSZH), excellent shielding effectiveness, and stable electrical performance, it is suitable for mission-critical communication systems, base stations, DAS networks, and other RF infrastructure requiring safety-compliant cabling.



Key Features

- Superflex design with small minimum bending radius
- LSZH fire-retardant jacket for indoor safety compliance
- High shielding effectiveness: >120 dB @ >10 MHz
- Impedance: 50 \pm 1 Ω
- Wide operating frequency range up to 12.5 GHz
- Excellent power handling and low attenuation

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 fire-retardant (LSZH)

VSWR

- 0.8 ~ 1.0 GHz: \leq 1.13
- 1.7 ~ 2.2 GHz: \leq 1.13
- 2.2 ~ 2.7 GHz: \leq 1.15

Physical Dimensions	
Inner Conductor Diameter	3.60 mm
Dielectric Diameter	9.80 mm
Outer Conductor Diameter	12.00 mm
Diameter Over Jacket	13.30 mm
Mechanical Specifications	
Minimum Bending Radius – Single	17 mm
Minimum Bending Radius – Repeated	55 mm
Minimum Number of Bends	15
Tensile Strength	600 N
Electrical Specifications	
Capacitance	80.0 pF/m
Impedance	50 \pm 1 Ω
Velocity Factor	82%
RF Peak Voltage	1.13 kV
Peak Power Rating	19 kW
Cut-off Frequency	12.5 GHz
Shielding Effectiveness	>120 dB
Insulation Resistance	5000 M Ω ·km

Attenuation		
Frequency (MHz)	Attenuation (dB/100 m)	Average Power (kW)
100	0.48	20.9
150	0.53	18.1
200	0.52	18.5
280	0.59	16.4
450	0.56	17.35
800	0.7	13.8
900	0.63	15.55
1000	0.94	10.56
1500	0.88	11.15
1800	1.37	7.2
2000	1	9.86
2200	2.11	4.65
2400	1.69	5.65
2500	3.03	3.22
3000	2.39	4.05

