

LT-COAX-1/2-100LSZH

1/2" Coaxial Cable

The LT-COAX-1/2-100LSZH 1/2" Coaxial Cable is a high-performance, low-loss RF transmission cable designed for demanding communication systems. Featuring a structure it offers excellent bend ability 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

- Flexible 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

