LT-HF400-300LSZH

LLC-400,50 Ohm Braided Coaxial Cable

The LT-HF400-300LSZH is a high-performance LLC-400 type coaxial cable designed for reliable signal transmission across a wide range of RF applications. With a characteristic impedance of 50 Ohms, this braided coaxial cable ensures minimal signal loss, making it ideal for use in wireless communications, antenna systems, and radio frequency transmission lines.

Engineered with a Low Smoke Zero Halogen (LSZH) outer jacket, it is particularly suited for environments requiring enhanced fire safety standards, such as indoor telecom installations, public buildings, and confined areas.

Key Features

- Superflex design for easy installation
- Low signal loss and high performance
- LSZH jacket for fire safety
- Strong EMI/RFI shielding
- 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

Standard Conditions:

For attenuation: VSWR 1.0, cable temperature 20°C (68°F)
For everage power: VSWR 1.0, ambient temperature 40°C (104°F),
Inner conductor temperature 100°C (212°F) no solar loading,
Maximum attenuation value shall be 105% off the nominal attenuation value.

Performance :

Frequency (MHz)	Attenuation (dB / 100 m)	Frequency (MHz)	Attenuation (dB / 100 m)
100	4.1	1800	18.6
150	5.0	1900	19.2
220	6.1	2000	19.6
450	8.9	2200	20.9
900	12.8	2500	22.2
1200	15.0	2800	23.9
1500	16.80	3000	24.8

Specification :

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Capacitance	77 pF/m
Impedance	50 ± 2 Ω
Velocity	85.0%
Insulation Resistance	>5000 mΩ • km
Cut-off Frequency	16.2 kV
Whistanding Voltage (AC)	2.5 kV
Sparkover Voltage	8.0 kW
Peak Power Rating	18.89 kW
ScreeN Effeciency	≥90 Db
VSWR	
800 ~ 1000 MHz	≤ 1.15
1700 ~ 2000 MHz	≤ 1.20
2000 ~ 2400 MHz	≤ 1.25
Environmental and Mechanical Property	
Operating Temperature Range	-40 C~+85 C
Minimum Single Bending Radius	25 mm
Minimum Bending Temperature	-15 C
Construction Materials	
Inner Conductor	Copper-clad Aluminum
Dielectric	Physical Foam Polyethylene
Outer Conductor	Bonded Aluminum/
Dielectric	Physical Foam Polyethylene
Outer Conductor Coverage	80%
Jacket	LSZH
Physical Dimensions	
Inner Conductor	2.74 ± 0.02 mm
Dielectric	7.24 ± 0.10 mm
Shields	8.00 ± 0.20 mm
Jacket	10.1 ± 0.30 mm