

LT-COAX-7/8-200LSZH

Superflex 7/8" Coaxial Cable

The LT-COAX-7/8-200LSZH Superflex 7/8" 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

Key Highlights

- Compact, lightweight, and low-visibility design
- Stable signal performance in varied indoor settings
- Compatible with standard RF connectors
- Secure and vibration-resistant mounting
- Reliable operation across different indoor temperatures

Applications

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



Specification :

Electrical Materials	
Capacitance	75.0 pF/m
Impedance	$50 \pm 1 \Omega$
Velocity	89%
RF Peak Voltage	3.00 kV
Peak Power Rating	91 kW
Cut-off Frequency	5.20 GHz
Shielding Effectiveness >10 MHz	>120 dB
Insulation Resistance	5000 m Ω • km
VSWR	
0.8 ~ 1.0 GHz	≤ 1.10
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



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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	
Inner Conductor Diameter	9.00 mm
Dielectric Diameter	22.30 mm
Outer Conductor Diameter	24.90 mm
Diameter over Jacket	27.50 mm
Mechanical Specifications	
Minimum Bending Radius	
Single Bending	90 mm
Repeated Bending	250 mm
Minimum Number of Bends	15
Tensile Strength	1470 n

Performance :

Frequency (MHz)	Attenuation		Average Power Rating (Kw)
	dB / 100 m	dB / 100 ft	
100	1.19	0.36	8.62
150	1.47	0.45	7.20
200	1.71	0.52	5.99
280	2.05	0.62	4.94
350	2.30	0.70	4.90
450	2.64	0.80	3.88
800	3.62	1.10	2.83
900	3.87	1.18	2.65
1000	4.10	1.25	2.50
1500	5.16	1.51	1.99
1800	5.73	1.75	1.79
2000	6.09	1.86	1.68
2200	6.44	1.96	1.59
2400	6.78	2.07	1.54
2500	6.95	2.12	1.50
3000	7.74	2.36	1.33

Standard Conditions:

For attenuation: VSWR 1.0, cable temperature 20°C (68°F)

For average 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.

