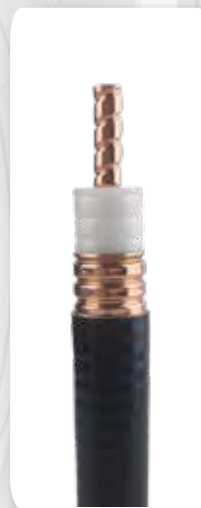


LT-COAX-7/8S-200LSZH

SUPERFLEX 7/8-INCH COAXIAL CABLE

The LT-COAX-7/8S-200LSZH is a super flexible 7/8-inch coaxial cable designed for professional RF transmission systems. Featuring high tensile strength, superior shielding, and LSZH jacket compliance, it is built for large-scale outdoor/indoor deployments where reliability, safety, and long-term durability are critical.



Key Features

- Large diameter for low attenuation & high power handling
- LSZH fire-retardant jacket suitable for critical installations
- High shielding effectiveness: >120 dB @ >10 MHz
- Impedance: $50 \pm 1 \Omega$
- Wide operating frequency range up to 4.9 GHz
- Excellent environmental durability

Environmental Specifications

Storage Temperature: $-55^{\circ}\text{C} \sim +85^{\circ}\text{C}$

Installation Temperature: $-40^{\circ}\text{C} \sim +60^{\circ}\text{C}$

Operating Temperature: $-55^{\circ}\text{C} \sim +85^{\circ}\text{C}$

Construction Materials

- Inner Conductor: Helical copper tube
- Dielectric: Physical foam polyethylene
- Outer Conductor: Corrugated copper tube
- Jacket: Low smoke, halogen-free fire-retardant (LSZH)

VSWR

- 0.8 ~ 1.0 GHz: ≤ 1.15
- 1.7 ~ 2.2 GHz: ≤ 1.15
- 2.2 ~ 2.7 GHz: ≤ 1.15

Physical Dimensions	
Inner Conductor Diameter	9.40 mm
Dielectric Diameter	22.80 mm
Outer Conductor Diameter	24.90 mm
Diameter Over Jacket	27.50 mm
Mechanical Specifications	
Minimum Bending Radius – Single	90 mm
Minimum Bending Radius – Repeated	125 mm
Minimum Number of Bends	15
Tensile Strength	1020 N
Electrical Specifications	
Capacitance	76.0 pF/m
Impedance	$50 \pm 1 \Omega$
Velocity Factor	88%
RF Peak Voltage	3.10 kV
Peak Power Rating	90 kW
Cut-off Frequency	4.9 GHz
Shielding Effectiveness	>120 dB
Insulation Resistance	10000 M Ω ·km

Attenuation		
Frequency (MHz)	Attenuation (dB/100 m)	Average Power (kW)
100	0.4	7.64
150	0.4	8.51
200	0.49	7.08
280	0.57	7.46
450	0.68	6.3
800	0.88	6.7
900	0.88	4.5
1000	1.21	5.67
1500	1.29	3.98
1800	1.37	4.24
2000	0.68	2.24
2200	0.88	2.9
2400	0.49	1.61
2500	0.57	1.88
3000	0.4	1.31

