LT-RG214-150LSZH

RG214, 50 Ohm Braided Coaxial Cable

The LT-RG214-150LSZH is a high-performance 50 Ohm RG214 coaxial cable designed for demanding RF signal transmission. Engineered with double-braided shielding and a Low Smoke Zero Halogen (LSZH) jacket, this cable ensures excellent signal integrity while enhancing fire safety and reducing toxic emissions. Ideal for military, aerospace, broadcast, and telecommunications use, the LT-RG214-150LSZH provides robust performance in both indoor and outdoor environments. It supports a wide range of frequencies, making it suitable for radio communications, antenna connections, and high-frequency data transmission in sensitive or enclosed spaces where safety and reliability are critical.

Key Features

• High Shielding Effectiveness: Minimizes signal loss and ensures strong interference protection.
• Durable LSZH Jacket: Designed for indoor and controlled outdoor environments, producing minimal smoke and toxic gases during combustion.
• Wide Operating Temperature Range: Reliable from −25°C to +70°C.
• Low Signal Attenuation: Excellent high-frequency performance up to 6 GHz.

Applications

• High Shielding Effectiveness: Minimizes signal loss and ensures strong interference protection.
• Durable LSZH Jacket: Designed for indoor and controlled outdoor environments, producing minimal smoke and toxic gases during combustion.
• Low Signal Attenuation: Excellent high-frequency performance up to 6 GHz.

Standard Conditions:

• VSWR 1.0, cable temperature 20°C, environment temperature 40°C, inner conductor temperature 100°C
• Capacity per drum: 500m; drum packing: Φ390*Φ150*190mm

Specification :

Electrical Specifications	
Capacitance	100 pF/m
Impedance	50 ± 2 Ω
Velocity	66.0%
Insulation Resistance	>5000 mΩ • km
Voltage	4.5 kV
Jacket Spark	3.0 kV
Shielding Effectiveness	>70 dB
Environmental & Mechanical Specifications	
Operating Temperature Range	-25°C ~ +70°C
Minimum Bending Radius	55 mm
Construction Materials	
Inner Conductor	Stranded Silver-Plated Copper Wire
Dielectric	Solid Polyethylene
Outer Conductor	Double Silver-Plated Copper Braid Shield (93%+95%)
Jacker	LSZH
Physical Dimensions	
Inner Conductor	7* 0.75 mm
Dielectric	7.24 mm
Shields	8.55 mm
Jacket	10.8 mm

Performance Overview

Frequency (MHz)	Attenuation (dB / 100 m)	Frequency (MHz)	Attenuation (dB / 100 m)
300	12.88	3000	59.00
900	24.61	4200	73.30
1200	30.14	5100	84.80
1800	37.98	6000	96.60
2200	43.26	-	-