

LT-RG214-150LSZH

PLMR-400, 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

- Superflex design for easy installation
- Low signal loss and high performance
- Strong EMI/RFI shielding
- Wide RF frequency support
- Durable and long-lasting

Key Highlights

- Low VSWR for minimal signal loss
- Moisture and UV resistant
- RoHS compliant and eco-friendly
- Ideal for DAS, WLAN, GPS, and cellular use

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 Specifications	
Capacitance	100 pF/m
Impedance	$50 \pm 2 \Omega$
Velocity	66.0%
Insulation Resistance	$>5000 \text{ m}\Omega \cdot \text{km}$
Voltage	4.5 kV
Jacket Spark	3.0 kV
Shielding Effectiveness	$>70 \text{ dB}$
Environmental & Mechanical Specifications	
Operating Temperature Range	$-25^{\circ}\text{C} \sim +70^{\circ}\text{C}$
Minimum Bending Radius	55 mm
Physical Dimensions	
Inner Conductor	7* 0.75 mm
Dielectric	7.24 mm
Shields	8.55 mm
Jacket	10.8 mm



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Construction Materials

Inner Conductor	Stranded Silver-Plated Copper Wire
Dielectric	Solid Polyethylene
Outer Conductor	Double Silver-Plated Copper Braid Shield (93%+95%)
Jacker	LSZH

Performance :

Frequency	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		

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.

