

LT-COAX-RG223U-100LSZH

RG223/U Coaxial RF Cable, LSZH, 100 m Drum

This 50 Ω coaxial cable is designed for reliable RF signal transmission across a wide frequency range, making it suitable for wireless communications, telemetry, data transmission, and general-purpose RF applications. The cable features a copper-clad aluminum center conductor for an optimal balance of electrical performance and weight, a solid polyethylene dielectric for signal stability, and a silver-plated copper braid shield that provides effective protection against electromagnetic interference (EMI). Its durable black PVC jacket offers mechanical protection and flexibility for indoor and sheltered outdoor installations.



With a nominal impedance of 50 Ω , low attenuation characteristics, and a velocity factor of 66%, the cable is well suited for use in radio communication systems, antennas, test equipment, GPS installations, and other RF systems operating up to 3 GHz. The compact 5.4 mm outer diameter allows for easy routing and installation while maintaining dependable electrical performance. The cable is designed to withstand storage temperatures up to +80°C and supports a minimum bending radius of 25 mm for single installations.

CONSTRUCTION MATERIALS	
Inner Conductor	Copper-Clad Aluminum Wire
Dielectric	Solid Polyethylene
Outer Conductor	Silver-Plated Copper Braid Shield
Jacket	Polyvinyl Chloride (PVC), Black
PHYSICAL DIMENSIONS	
Inner Conductor Diameter	0.89 mm
Dielectric Diameter	2.95 mm
Outer Conductor Diameter	4.20 mm
Diameter Over Jacket	5.40 mm
ELECTRICAL DIMENSIONS	
Capacitance	101 pF/m
Impedance	50 Ω
Velocity of Propagation	66%
VSWR	
0.75 – 1.50 GHz	≤ 1.20
1.70 – 2.17 GHz	≤ 1.15
2.17 – 3 GHz	≤ 1.25
ENVIRONMENTAL & MECHANICAL SPECIFICATIONS	
Max Storage Temperature	+80 °C
Bending Radius (Single)	25 mm
Bending Radius (Multiple)	50 mm
PERFORMANCE	
Frequency	dB/100 m
30 (MHz)	7.00
200 (MHz)	19.00
500 (MHz)	30.00
1000 (MHz)	42.00
3000 (MHz)	76.00

