

TECHNICAL SPECIFICATIONS

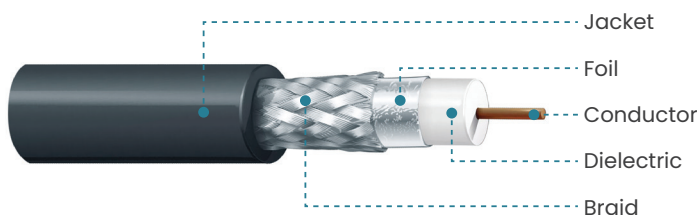
Coaxial Cable

50 Ohms

LRG58-77II-0211

Designed for 50 Ohm wireless communication systems demanding high performance and low loss. Liberty cables are versatile infrastructure solutions for indoor or outdoor environments with UV-resistant jacket. Designed most typically for antenna feeder assemblies demanding:

- High performance
- Low-loss RF cable
- Flexibility



Cable Construction	
Center Conductor	19 AWG Solid Bare Copper, Nom Dia: 0.037" Nom (0.94 ±0.009mm)
Dielectric	Foam PE, Dia. over Dielectric: 0.11" ±0.006" Nom (2.79 ±0.15mm)
Shield	Foil Tape: Aluminum/Polyester (Bonded), Braid: 36AWG Tinned Copper, 90% Coverage Nom
Jacket	PE (Color: Black), Dia. over Jacket: 0.195" ±0.006", (4.95 ±0.15mm), Nominal Jacket Thickness: 0.028" (0.71mm)
Electrical Properties	
Operating Temperature	-40°C ~ +75°C
Characteristic Impedance	50.0 ±3.0 Ohms Nom
Velocity Of Propagation	77.0% Nom
Capacitance	25.6 pF/ft. Nom 84.0 pF/m Nom
SRL	15dB (30 thru 2500MHz)
DCR: Conductor	8.1 Ohms/1000 ft. Nom @ 20°C
DCR: Shield	4.9 Ohms/1000 ft. Nom @ 20°C
Suggested Working Voltage	300V Max
Physical Characteristics	
Tensile Strength	≥ 2400PS (UL1581 Table 50.136)
Tensile Elongation	≥ 300% (UL1581 Table 50.136)
Cold Bend Test	-20 ±2°C/4H No Crack (UL758 Clause 23)
Crush Strength	600 lbf (2668N or 272kgf) (UL758 Clause 27)
Bend Radius	8D (39.6mm or 1.56")



Jacket Marking		
LIBERTY LRG58-77II RG58/U 50 OHM COAX 19AWG 75C 2.5GHZ MM/DD/YYYY ****FT/****FT		
Attenuation		
	30Mhz	2.08
	50Mhz	2.60
	150Mhz	4.40
	220Mhz	5.40
	450Mhz	7.80
	900Mhz	11.10
	1500Mhz	14.50
	1800Mhz	16.00
	2000Mhz	16.90
	2500Mhz	19.00

Liberty wire and cable specifications are subject to change without notice. Contact an account representative for current product specifications. Liberty continuously strives to ensure product specifications are accurate and complete. All physical specifications are nominal.