

TECHNICAL SPECIFICATIONS

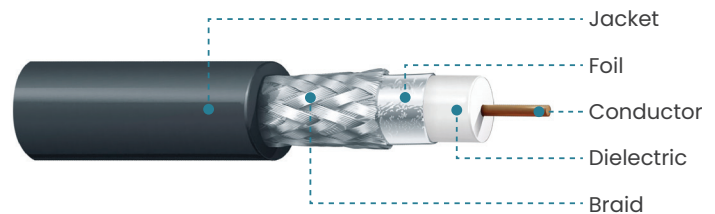
Coaxial Cable

50 Ohms

LRG8-770I-021I Ultraflex

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	11 AWG Stranded Bare Copper Construction: 19 × .02" (19 × 0.51mm)
Dielectric	Foam PE, Dia. over Dielectric: 0.285" (7.24 ±0.10mm)
Braid	33AWG Bare Copper, 90% Coverage, Nom Dia: 0.317" ±0.006 (8.05±0.15mm)
Jacket	PE (Color: Black), Dia. over Jacket: 0.405" ±0.010" (10.3 ±0.25mm), Nominal Jacket Thickness: 0.044" (1.12mm), Minimum Spot: 0.0354" (0.90mm)
Electrical Properties	
Operating Temperature	-40°C ~ +75°C
Capacitance	24.0 pF/ft. Nom
Impedance	52 Ohms Nom
Velocity Of Propagation	78.0% Nom
DCR: Conductor	1.90 Ohms/1000 ft. Nom
DCR: Shield	1.80 Ohms/1000ft. Nom
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 (82.4mm or 3.24")



Jacket Marking	
LIBERTY LRG8-770I RG8/U 52 OHM COAX 11AWG 75C 3GHZ MM/DD/YYYY ****FT/****FT	
Attenuation	
1Mhz	0.17
10Mhz	0.57
50Mhz	1.20
100Mhz	1.80
200Mhz	2.70
500Mhz	4.70
1000Mhz	7.10
2000Mhz	12.25
3000Mhz	16.69

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.