

Low Loss Flexible HLF 600 Coaxial Cable



Construction	
Conductor Material	Copper Clad Aluminum
Stranding	1 / 4.47 mm
Dielectric	Foamed Polyethylene (FPE)
Diameter of Dielectric	11.56 mm
Screen Material(1)	Bonded Aluminum/Polyester/Aluminium Tape (100%)
Screen Material(2)	Tinned Copper wire Braid (90%)
Outer Sheath Material	Polyethylene, UV Resistant
Outer Sheath Color	Black
Electrical Characteristics	
Impedance	50Ω
Cutoff Frequency	16.2 GHz
Velocity of Propagation	85%
Dielectric Constant	1.38
Shielding Effectiveness	>90 dB
Withstand Voltage	4.6kV
Jacket Spark	8.0kV (rms)
Capacitance	24pF/ft (78.7 pF/m)
Inductance	0.21 μH/m
Conductor Resistance	≤ 1.7 Ω/Km
Outer Conductor Resistance	≤ 5.7 Ω/Km
Return loss (30 – 2800 MHz)	≥ 15 dB
Peak Power	40.0 kW
Physical Characteristics	
Overall Diameter	15.0 mm
Min. Bend Radius	38.1 mm
Temperature Rating	-30°C to +85°C
Weight	100 kg /km

HLF-600 coaxial cable provides excellent performance for high power HF needs or VHF/UHF applications. Note that it has a stranded center conductor to greatly improve flexibility. This cable combines superior performance with good flexibility.

HLF 600 is equivalent or alternative of LMR 600 /CNT 600

Frequency (MHz)	Attenuation	
	dB/100 ft	dB/100m
30	0.5	1.6
50	0.6	2.0
150	1.0	3.2
220	1.2	3.8
450	1.7	5.6
900	2.5	8.2
1500	3.3	10.8
1800	3.7	12.0
2000	3.9	12.7
2500	4.4	14.5