Technical
Data Sheet

HLF 240 Coaxial Cable

P/N: AT1ATR240-1S

The **HLF240 cable** is a high-performance, **50-ohm low-loss coaxial cable** designed to provide a significant upgrade over standard RG58. It features a solid bare copper center conductor and a sophisticated double-shielding system—combining 100% coverage aluminum tape with a **dense tinned copper braid**—to ensure **exceptional EMI protection** and **signal stability**. Its low-density foam dielectric allows for much lower attenuation at higher frequencies, making it the industry standard for **short-to-medium antenna runs, wireless local loop (WLL) installations, and high-quality jumper assemblies**. The **flexible, UV-resistant PE or LSZH jacket** ensures long-term reliability for both indoor and outdoor deployments where a compact, high-velocity cable is required.

Construction Specifications

Description	Material & Plating	Diameter (mm)
Centre Conductor	Solid Bare Copper	1.42
Dielectric	Solid Polyethylene	3.81
1st Outer Conductor	Unsealed APA Tape	3.99
2nd Outer Conductor	Tinned Copper Braid	4.51 (95%)
Jacket	Black PE	6.10

Electrical Specifications

Parameter	Value	Unit
Frequency Range	DC - 6	GHz
Impedance	50	Ω
Propagation Velocity	83	%
Capacitance	79.4	pF/m
Screening Effectiveness	≥90	dB
Insulation Resistance	5000	MΩ-Km
Inner Conductor Resistance	11	Ω/km
Outer Conductor Resistance	13	Ω/km
Voltage Withstanding	1500	V DC
Peak Power Rating	5.5	KW

Ground floor, Plot No -20, (KH No-160/1,street No-3/2, samta Vihar, Mukandpur Extn., North West Delhi, Delhi-110042
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Mechanical Specifications		
Parameter	**Value**	**Unit**
Weight	34	Kg/km
Single Bending Radius	≥ 20	mm
Repeated Bending Radius	≥ 50	mm

Environmental Specifications		
Parameter	**Value**	**Unit**
Operation Temperature	-35 ~ 75	°C
Installation Temperature	-20 ~ 60	°C

Attenuation and Power Rating vs Frequency			
Frequency	**Attenuation (dB/100ft)**	**Attenuation (dB/100m)**	**Avg. Power Rating (kW)**
30 MHz	1.34	4.40	1.49
50 MHz	1.74	5.70	1.15
150 MHz	3.02	9.90	0.66
220 MHz	3.66	12.0	0.54
450 MHz	5.27	17.3	0.38
900 MHz	7.56	24.8	0.26
1500 MHz	9.88	32.4	0.20
1800 MHz	10.85	35.6	0.18
2000 MHz	11.49	37.7	0.17
2500 MHz	12.92	42.4	0.15
5800 MHz	20.36	66.8	0.10

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