Technical
Data Sheet

HLF 200 Coaxial Cable

P/N: AT1ATR200-1S

The **HLF200 cable** is a high-performance, **50-ohm low-loss coaxial cable** designed to provide a significant performance boost over standard RG58. Engineered with a solid copper center conductor and a sophisticated double-shielding system—combining 100% coverage aluminum tape with a tinned copper braid—it ensures **exceptional EMI protection** and **stable signal integrity**. Its low-density foam dielectric allows for **lower attenuation at higher frequencies**, making it the primary choice for **short-run antenna feeders, wireless local loop (WLL) systems, and high-quality jumper assemblies**. The **flexible, UV-resistant jacket** makes it equally suitable for indoor and outdoor installations where a compact, high-velocity cable is required.

Construction Specifications

Description	Material & Plating	Diameter (mm)
Centre Conductor	Solid Bare Copper	1.12
Dielectric	Solid Polyethylene	2.95
1st Outer Conductor	Unsealed APA Tape	3.12
2nd Outer Conductor	Tinned Copper Braid	3.65 (90%)
Jacket	Black PE	4.95

Electrical Specifications

Parameter	Value	Unit
Frequency Range	DC - 6	GHz
Impedance	50	Ω
Propagation Velocity	82	%
Capacitance	80.3	pF/m
Screening Effectiveness	≥80	dB
Insulation Resistance	5000	MΩ-Km
Inner Conductor Resistance	18	Ω/km
Outer Conductor Resistance	16	Ω/km
Voltage Withstanding	1000	V DC
Peak Power Rating	2.5	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	30	Kg/km
Single Bending Radius	≥ 12	mm
Repeated Bending Radius	≥ 35	mm

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

Attenuation and Power Rating vs Frequency			
Frequency	**dB/100 ft**	**dB/100 m**	**Avg. Power Rating (kW)**
30 MHz	1.80	5.91	1.02
50 MHz	2.30	7.55	0.79
150 MHz	4.00	13.12	0.45
220 MHz	4.85	15.9	0.37
450 MHz	6.95	22.8	0.26
900 MHz	9.94	32.6	0.18
1500 MHz	12.92	42.4	0.14
1800 MHz	14.20	46.6	0.13
2000 MHz	15.03	49.3	0.12
2500 MHz	16.89	55.4	0.11
5800 MHz	26.37	86.5	0.07

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