Technical
Data Sheet

HLF 195 Coaxial Cable

P/N: AT1ATR195-1S

The **HLF195 cable** is a high-performance, **low-loss 50-ohm coaxial cable** engineered as a premium upgrade to standard RG58/142. Featuring a solid bare copper center conductor and a double-shielded construction—comprising 95% coverage aluminum tape and a tinned copper braid—it offers **superior EMI protection** and significantly **lower signal attenuation**. Its high-velocity foam dielectric ensures stable electrical performance across a wide frequency range, making it a versatile choice for **short-run antenna feeders, GPS & Telematics**, **wireless local loop (WLL) installations, and high-quality jumper assemblies**. With a **flexible, UV-resistant jacket**, it provides the durability and pliability needed for both indoor and outdoor RF environments where signal integrity is paramount.

Construction Specifications

Description	Material & Plating	Diameter (mm)
Centre Conductor	Solid Bare Copper	0.94
Dielectric	Solid Polyethylene	2.79
1st Outer Conductor	Unsealed APA Tape	2.95
2nd Outer Conductor	Tinned Copper Braid	3.50 (95%)
Jacket	Black PE	4.95

Electrical Specifications

Parameter	Value	Unit
Frequency Range	DC - 6	GHz
Impedance	50	Ω
Propagation Velocity	80	%
Capacitance	83.3	pF/m
Screening Effectiveness	≥80	dB
Insulation Resistance	5000	MΩ-Km
Inner Conductor Resistance	80	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
Contact: +91 9643592149 Email: info@aetherx.in , Website: www.aetherx.in

Technical Data Sheet

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	2.00	6.56	0.85
50 MHz	2.58	8.46	0.66
150 MHz	4.47	14.67	0.38
220 MHz	5.41	17.75	0.31
450 MHz	7.76	25.46	0.21
900 MHz	11.10	36.42	0.15
1500 MHz	13.84	45.41	0.12
1800 MHz	15.91	52.20	0.11
2000 MHz	16.60	54.46	0.10
2500 MHz	18.65	61.19	0.09
5800 MHz	28.90	94.82	0.06

Ground floor, Plot No -20, (KH No-160/1,street No-3/2, samta Vihar, Mukandpur Extn., North West Delhi, Delhi-110042
Contact: +91 9643592149 Email: info@aetherx.in , Website: www.aetherx.in