

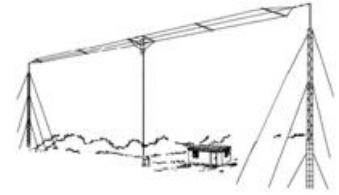
# SMART ELECTRONICS COMMUNICATION

Delhi, INDIA

E-mail: [info@secantenna.com](mailto:info@secantenna.com) Website: [www.secantenna.com](http://www.secantenna.com)

## HF THREE FOLD BROADBAND DIPOLE ANTENNA

**DESIGN FEATURES:** The S3HF Broad Band Dipole Omni directional Antenna offer optimum performance, fully automatic, low SWR operation over the entire HF band 1.8 – 30 MHz and suitable for transmitting, receiving or HF spectrum monitoring or surveillance. The HF broadband dipole antenna propagates NVIS, local, medium or long distance. This HF broadband dipole antenna is ready to go right out of the box, no taps to change frequency, nothing to tune - ever! Designed for the military and built to last. The S3HF can work any frequency you want without going through a lot of knob twirling and measurements to get a good VSWR match - just set your frequency and go!



**CONSTRUCTIONS:** The HF broadband antenna is designed by using three folded arms with a matching Balun. The HF broadband dipole antenna can be mounted either in an inverted “V” using a single mast, or in a standard dipole configuration (Horizontal Polarized) using two masts. The HF Broad Band Dipole Antenna provides optimum performance over complete HF band, eliminating the requirement of multiple antennas or an Antenna Tuning Unit.

### ELECTRICAL SPECIFICATIONS:

Model No.	S3HF	S3HF-SS
Frequency Range	1.8 – 30MHz	
Gain	3 dBi	
Bandwidth	Full Band	
Polarization	Horizontal or inverted “ V ”	
Input Impedance	50 Ohms	
Radiation Pattern	Omni Directional	
VSWR	≤ 2.5 : 1	
RF Power Handling Capacity	1KW with matched termination box	
Input Termination	UHF-Female (by default) / N-female	
Lightning Protection	Direct Ground	

### MECHANICAL SPECIFICATIONS:

Net Weight	4.5 Kg (Antenna Only)	
Overall Length	29 Meters	
Shipping Box Size	100 x 50 x 50 cm (Pack of 6 antenna units)	
Wind Rating	150 Km/Hr.	
Balun Base Diameter	50 mm (Balun)	
Base Material	Nylon (Balun)	
Dipole material	Twisted Copper with Insulator	Stainless Steel wire grade 304
Conductor Separation	18” inch each	
Spreaders Material	PVC Pipe	
Insulator Material	Nylon	
Recommended Mast Height	9-11 Meters (30-36 Feet)	
Distance between Mast	30-35 Meters	

### ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature	(-)30° to +70° C (Degrees Celsius)	
Storage Temperature	(-)40° to +80° C (Degrees Celsius)	
Humidity	0 to 95% RH	