



Helical / Other Antennas

HELICAL

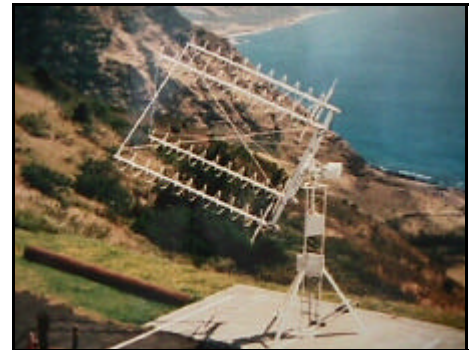
Used for wide bandwidth (up to 2:1) applications. ie 225-425 MHz
 Produces Right Hand Circularity (if wound right hand)
 Or Left Hand Circularity (if wound left hand)
 Typically used between 100 to 2000 MHz
 Usable gain range of 6 dBi to 17 dBi
 Typically 3 dB less gain than a Yagi for similar length
 Generally rear mounted
 Easily matched to 50 Ohm coaxial cable
 No balun required as feed point comes out through the rear reflector plane



HELICAL FREQUENCY RANGE

VHF + 30 MHz and up

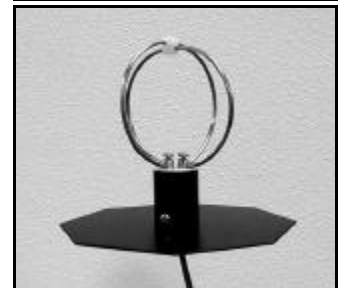
MODEL	FREQUENCY	GAIN / dBi	TURNS	LENGTH
200-320-7	200-320 MHz	11	7	78"
225-400-8	225-400 MHz	11.5	8	69"
225-270-10	225-270 MHz	11.5	10	96"
245-315-12	245-315 MHz	12.5	12	75"
250-318-7	250-318 MHz	12	7	65"
385-425-8	385-425 MHz	12	8	84"
450-800-12	450-800 MHz	12.5	12	72"
500-1000-10	500-1000 MHz	12.6	10	52"
850-950-10	850-900 MHz	12	10	52"



HORIZONTAL/OMNI

Physically Small
 Horizontally polarized at horizon, circularly overhead
 Good bandwidth
 Commonly used for low earth orbit VHF / UHF satellites

MODEL	FREQUENCY	GAIN	F/B	SIZE
EB-144	135-150 MHz	0.0 dBd	N/A	34" X 28"
EB-312	225-400 MHz	0.0 dBd	N/A	16" X 12"
EB-325	250-400 MHz	0.0 dBd	N/A	16" X 12"
EB-432	420-450 MHz	0.0 dBd	N/A	14" X 10"
EB-450	400-500 MHz	0.0 dBd	N/A	13" X 11"
EB-915	890-930 MHz	0.0 dBd	N/A	10" X 10"
EB-1300	1250-1300 MHz	0.0 dBd	N/A	8" X 8"
173-HO	170-175 MHz	0.0 dBd	N/A	12" X 12"
315-HO	312-317 MHz	0.0 dBd	N/A	9" X 9"



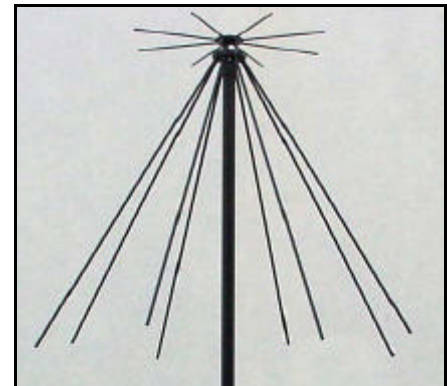


Helical / Other Antennas Cont..

DISCONE

Vertical polarization
Omni-directional
Up to 500% bandwidth

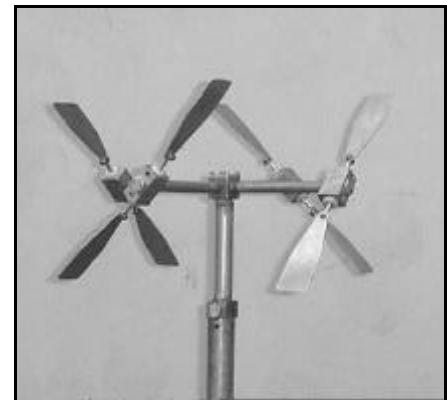
MODEL	FREQUENCY	GAIN	F/B	SIZE
30-500DC	30-500 MHz	2 dBi	N/A	
100-500DC	100-500 MHz	2 dBi	N/A	
500-1000DC	500-1000 MHz	2 dBi	N/A	



CIRCULAR OMNI

Quadrafilar Helix and Crossed Orthogonal Dipoles
Good local pattern
Small size
Narrow bandwidth

MODEL	FREQUENCY	GAIN	F/B	SIZE
145CP-OMNI	140-150 MHz	5.6 dBd	N/A	22" x 22"
435CP-OMNI	420-450 MHz	5.88 dBd	N/A	16" x 16"
1.3CP-OMNI	1200-1400 MHz	0.0 dBd	N/A	8" x 8"



PATCHES / J-POLE

Small size
Low profile
Decent gain
Directional
Can be arrayed

MODEL	FREQUENCY	GAIN	F/B	SIZE
915 PATCH	902-928 MHz	6 dBd	20 dB	10" x 10"
915 J-POLE	900-930 MHz	0 dBd	N/A	

