

WH14-69/24

WH14-69/32

WH 14-69/43

Helical Antennas



The Wade Helical Antenna is an elliptical polarized antenna for CATV Off-Air reception. The WH14-69 covers the entire UHF band (470-806 MHz), channels 14 through 69. Available as a single antenna or a customized antenna array. All material is hot dip galvanized steel or aluminum for superior quality and longevity.

MODEL		WH14-69/S	WH14-69/32	WH14-69/43
Frequency (MHz)		470-806	470-806	470-806
Gain (dBic)	Horiz.	18.7	19.7	20.7
	Vert.	17	18	19
Number of Turns		12	12	12
VSWR:	Max	1.9	1.9	1.9
	Typical	1.4	1.4	1.4
HPBW:	Horiz.	30	27	24.5
	Vert.	28	25.5	23
Polarization		Circular	Circular	Circular
1st Sidelobe Suppression (dB)		15	16	17
F/B Ratio		>23	>25	>27
Cross. Pol. Suppr.		20dB	20dB	20dB
Impedance (Ohm)		75	75	75
Std. Connector		F	F	F
Max. Input Power		25 W	25 W	25 W
Temperature (C)		-40 to +70	-40 to +70	-40 to +70

MODEL		WH14-69/S	WH14-69/32	WH14-69/43
Overall length (in)		65	65	65
Helix Axis (in)	Horiz.	8.625	8.625	8.625
	Vert.	5.875	5.875	5.875
Ground plane diam		24	32	42.67
Stub length (in)		6.5	6.5	6.5
Stub OD (in)		1.5	1.5	1.5
Antenna Weight		12lbs	13lbs	14lbs
Std U-Bolt ID (in)		2.5	2.5	2.5

* 1.5" OD, .125" wall Al tube

MODEL		WH14-69/S	WH14-69/32	WH14-69/43
Wind Area (Sq. ft.)	No Ice	1.64	1.94	2.32
	1/2" Radial Ice	3.68	4.02	4.42
Wind Load (ft*lb)	No Ice*	143	169	203
	1/2" Radial Ice**	93	102	122
Survival wind speed (no ice)(mph)		180	165	151

* Wind Speed = 100 MPH at sea level with 100% Humidity at 700F.

** Wind Speed = 50 MPH at sea level with 100% Humidity at 00F.