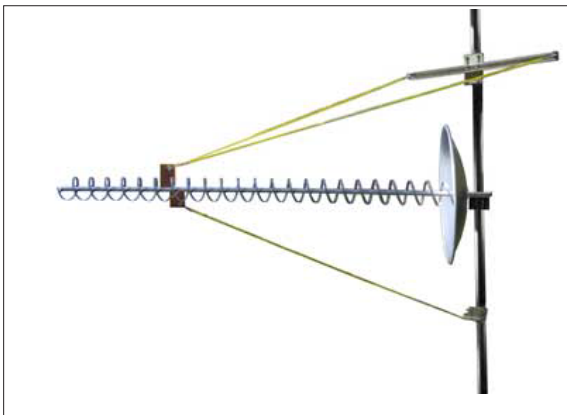


## WADE HIGH GAIN HELICAL ANTENNAS

- WH 14-51/24
- WH 14-51/32
- WH 14-51/43

The Wade Helical Antenna is elliptically polarized for CATV Off-Air reception. The WH14-51 covers the entire UHF band (470 -698 MHz), channels 14 through 51. Available as a single antenna or a customized antenna array. All material is hot dip galvanized steel or aluminum for superior quality and longevity.



## SPECIFICATIONS:

### Electrical

MODEL		WH14-51/S	WH14-51/32	WH14-51/43
Frequency (MHz)		470-698	470-698	470-698
Gain (dBic)	Horiz.	22.6	23.6	24.6
	Vert.	21.4	22.4	23.4
Number of Turns		24	24	24
VSWR:	Max	1.9	1.9	1.9
	Typical	1.4	1.4	1.4
HPBW:	Horiz.	17	15	13.5
	Vert.	15.5	14	12.5
Polarization		Elliptical	Elliptical	Elliptical
1st Sidelobe Suppression (dB)		20	21	22
F/B Ratio		>29	>31	>33
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

### Mechanical

MODEL		WH14-51/S	WH14-51/32	WH14-51/43
Overall length (in)		144	144	144
Helix Diam. (in)	Horiz.	7.875	7.875	7.875
	Vert.	5.875	5.875	5.875
Ground plane diam		24	32	42.67
Stub length (in)		9	9	9
Stub OD (in)		1.5	1.5	1.5
Antenna Weight		60lbs	60lbs	60lbs
Std. U-Bolt ID (in)		2.5	2.5	2.5

\*1.5" OD, .125" wall Al tube

### Wind Loading

MODEL		WH14-51/S	WH14-51/32	WH14-51/43
Wind Area (Sq. ft.)	No Ice	3.36	3.66	4.04
	½" Radial Ice	7.85	8.19	8.59
Wind Load (ft*lb)	No Ice	600	654	721
	½" Radial Ice	423	441	463
Survival wind speed (no ice) (mph)		142	136	130

\* Wind Speed = 100 MPH at sea level with 100% Humidity at 70°F.

\*\* Wind Speed = 50 MPH at sea level with 100% Humidity at 0°F.

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