

WADE HELICAL ANTENNAS

- WH14-69/24
- WH14-69/32
- WH14-69/43

The Wade Helical Antenna is a circular 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.



SPECIFICATIONS:

ELECTRICAL

| MODEL | WH14-69/S | WH14-69/32 | WH14-69/43 |
|---|------------|------------|------------|
| Frequency (MHz) | 470-806 | 470-806 | 470-806 |
| Gain (dBic) | 17 | 18 | 19 |
| Number of Turns | 12 | 12 | 12 |
| VSWR | Max | 1.6 | 1.6 |
| | Typical | 1.4 | 1.4 |
| HPBW (deg.) | Horiz. | 30 | 27 |
| | Vert. | 28 | 25.5 |
| Polarization | Circular | Circular | Circular |
| 1 st 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 |

MECHANICAL

| MODEL | WH14-69/S | WH14-69/32 | WH14-69/43 |
|---------------------|-----------|------------|------------|
| Overall length (in) | 65 | 65 | 65 |
| Helix Diam. (in) | 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 |
| Mounting option | Mast | Mast | Mast |
| Mast OD (in) | 2.875 | 2.875 | 2.875 |

*1.5" OD, .125" wall Al tube

WIND LOADING

| MODEL | WH14-69/S | WH14-69/32 | WH14-69/43 |
|---------------------------------|--------------|------------|------------|
| Wind area (sq ft) | No ice | 1.64 | 1.94 |
| | 1/2" rad ice | 3.68 | 4.02 |
| Wind load (ft*lb) | No ice | 143 | 169 |
| | 1/2" rad ice | 93 | 102 |
| Survival wind spd (no ice)(mph) | 180 | 165 | 151 |

NOTES:

- * Wind Speed = 100 MPH at sea level with 100% Humidity at 70 degrees Fahrenheit.
- ** Wind Speed = 50 MPH at sea level with 100% Humidity at 0 degrees Fahrenheit.
- *** Maximum Wind Speed at sea level with 100% Humidity at 70 degrees Fahrenheit. Safety Factor of 1.65 included.

WADE Antenna Inc.

29 Sharp Road
 Brantford, Ontario, N3T 5L8 Canada
 Tel: 519.756.7157
 Fax: 519.756.5056

(800) 463-1607
 sales@wadeantenna.com
 www.wadeantenna.com