



Product Features

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

Description

The Wade Helical Antenna is circularly polarized 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. Electrical performance of the WH14-69, along with the high quality of materials used in the construction of this antenna, have resulted in a superior performance and longevity even when exposed to the most extreme weather conditions.

ELECTRICAL SPECIFICATIONS

| SPECIFICATION | WH14-69/24 | WH14-69/32 | WH14-69/43 |
|--------------------------------|---------------|---------------|---------------|
| FREQUENCY RANGE | 470-806 MHz | 470-806 MHz | 470-806 MHz |
| GAIN (dBic) | 17 | 18 | 19 |
| GAIN (dBi) | 14 | 15 | 16 |
| NUMBER OF TURNS | 12 | 12 | 12 |
| VSWR MAX | 1.9 | 1.9 | 1.9 |
| VSWR TYPICAL | 1.4 | 1.4 | 1.4 |
| HPBW HORIZONTAL | 30 | 27 | 24 |
| HPBW VERTICAL | 28 | 25.5 | 23 |
| POLARIZATION | Circular | Circular | Circular |
| SIDELobe SUPPRESSION | 15dB | 16dB | 17dB |
| F/B RATIO (dB) | >23 | >25 | >27 |
| CROSS POLARIZATION SUPPRESSION | 20dB | 20dB | 20dB |
| IMPEDANCE | 75 Ohm | 75 Ohm | 75 Ohm |
| CONNECTOR | "F" Connector | "F" Connector | "F" Connector |
| MAX. INPUT POWER | 25 W | 25 W | 25 W |
| TEMPERATURE (C) | -40 to +70 | -40 to +70 | -40 to +70 |

MECHANICAL SPECIFICATIONS

| SPECIFICATION | WH14-69/24 | WH14-69/32 | WH14-69/43 |
|----------------------|------------|------------|------------|
| OVERALL LENGTH | 65" | 65" | 65" |
| HELIX DIAMETER | 5.875" | 5.875" | 5.875" |
| GROUND PLANE DIAM. | 24 | 32 | 42.67 |
| STUB LENGTH | 6.5" | 6.5" | 6.5" |
| STUB OD | 1.5" | 1.5" | 1.5" |
| ANTENNA WEIGHT (lbs) | 12 | 13 | 14 |
| MOUNTING OPTION | Mast | Mast | Mast |
| MAST OD | 2.5" | 2.5" | 2.5" |

WIND LOAD SPECIFICATIONS

| SPECIFICATION | WH14-69/24 | WH14-69/32 | WH14-69/43 |
|------------------------------|------------|------------|------------|
| WIND AREA (Sq. ft.) | | | |
| NO ICE * | 1.64 | 1.94 | 2.32 |
| 1" RADIAL ICE ** | 3.68 | 4.02 | 4.42 |
| WIND LOAD (ft. lbs) | | | |
| NO ICE * | 143 | 169 | 203 |
| 1" RADIAL ICE ** | 93 | 102 | 122 |
| SURVIVAL WIND SPEED (no ice) | 180 | 165 | 151 |

*Wind Speed: 100mph

**Half Wind: 50mph

Wade Antenna's ongoing policy of continuing development may result in specification changes to its products.