



$$e = \sum_{n=0}^{\infty} \frac{1}{n!} = \lim_{n \rightarrow \infty} \left(\frac{1}{0!} + \frac{1}{1!} + \frac{1}{2!} + \dots + \frac{1}{n!} \right)$$



UHF RHCP HELICAL ANTENNA

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Features:

- Specially designed for No LOS applications. High Efficiency 802.11 ac approved
- RHCP Polarization for field diversity

Performances:

- UHF 400/600 MHz gain 14 dBic
- Bandwith 200 MHz
- Polarization RHCP or LHCP
- Horizontal Beamwidth Half Power Points 60 Degrees (if Stacked vertically)
- Vertical Beamwidth Half Power Points 30 Degrees (if Stacked vertically)
- Maximum power 200 watts CW
- VSWR better than 1:2.0 - 1:1.35 @ Center freq.
- Front to Back ratio 17 dB



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Mechanicals:

- | | |
|------------------------------------|--|
| ● Dimensions 1400x210 mm | ● Operating temperature range -55° to +85° |
| ● Connector N-type, female | ● Vibration conformity IEC60721-3-4 |
| ● Weight 2x11 Kg | ● Wind load 190 km/h |
| ● IP-67 Water & Dust Resistant | ● Flammability UL94 |
| ● Radom Polycarbonate UV protected | ● Humidity ETS300 019-1-4, EN 302 085 (Annex A1.1) |
| | ● Salt Fog Compliant to IEC 68-2-11 |

DESIGN FEATURES

The HYC.AH600D dual stacked helical antenna uses extended stubs to provide the greater gain while maintaining the wider beam-width. This high-gain low-profile antennas use Circular Polarization Antenna Technology, which delivers better penetration through obstruction and interference. This industrial grade antenna provides superior performance as compare to significantly larger and more complex products. Our AH series dual stacked helical antennas are smaller than conventional cross elements Yagi antenna. The HYC.AH600D Dual Stacked Helical Antenna is supplied with power splitter/combiner, phasing harness cables, stacking pipe and mounting hardware to mount the dual stacked helical antenna on tower/mast

CONSTRUCTIONS

HYC.AH600D, like all our AH series helical antennas, utilizes circular polarization to minimize the effects of multipath interference. Both Right Hand Circular Polarized (RHCP) and Left Hand Circular Polarized (LHCP) helical antenna models are available.

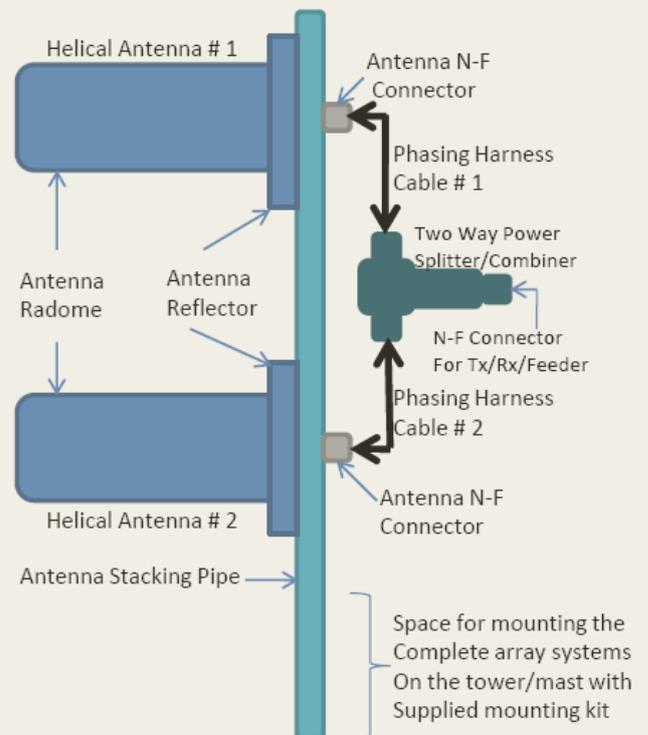
The HYC.AH600D Dual Stacked Helical Antenna is light weight, broadband and rugged helical antennas, supplied complete in assembled condition with fiberglass Radom to protect the antenna from environment. Cylindrical enclosure is used for low wind loading and for minimal effect of ice formation on the helical antenna operation as well as providing an aesthetically pleasing appearance.

BEAMWIDTH:

If the dual stacked helical antenna installed as per given configuration, the 60 degrees horizontal and 30 degrees vertical beam-width can be obtained. Similarly the dual array can be stacked horizontally to control the beam-width in horizontal plane without disturbing the vertical beam-width.



Dual Stacked helical antenna with
LandRake UHF 14 Mbps IP Radio



Dual Stacked Helical Antenna Schematic Diagram