

Model AHYC -5458 Helical antenna

5400 - 5800 MHz

18 dBic Gain

**Design Features:** The AHYC-5458 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 commercial grade antenna provides superior performance as compare to significantly larger and more expensive products. Our AH series helical antennas are smaller than conventional yagi antenna. The AHYC-5458 Helical Antenna is supplied with a specially designed mounting arrangement for steering the antenna in both planes, over 360 Degrees in Azimuth and 90 Degrees in Elevation for terrestrial and satellite links.



**Constructions:** The AHYC-5458, 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 AHYC-5458 Helical Antenna is light weight, broadband and rugged helical antennas, supplied with fiberglass radome 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.

<b>Electrical Specifications:</b>	
Frequency Range	5400 - 5800 MHz
Gain	18 dBic
Bandwidth	5.4 - 5.8 GHz
Polarization	Circular - LHCP or RHCP
Input Impedance	50 Ohms
Radiation Pattern	Directional
Horizontal Beamwidth -Half Power Points	30 Degrees
Front to Back Ratio	18 dB.
VSWR	1.5:1
RF Power Handling Capacity	150 Watts
Input Termination	N-Female

<b>Mechanical Specifications:</b>	
Materials	6063T6 Aluminium, Copper, ABS
Mounting Hardware -Materials	Marine Grade Stainless Steel
Wind Rating	200 Km/Hr.
Overall Length	280 mm
Shipping Length	350 mm
Radiating Material	High Quality Copper
Maximum Mount Pipe Diameter	38-52mm (1.5-2 Inches)
Radome Material	ABS
Radome Outer Diameter	45 mm
Gross Weight	1 Kg.

<b>Environmental Specifications:</b>	
Operating Temperature	(-) 30 to +70 Degrees Celsius
Storage Temperature	(-) 40 to +80 Degrees Celsius
Humidity	0 to 95% RH

Applications for MIMO 2x2 and MIMO 4x4 :

