



2.4 GHZ BI-DIRECTIONAL HELICAL

- BDH2024

DESCRIPTION

Wade Antenna's new bi-directional Helical Antenna is designed for the Wi-Fi 2.4-2.5 GHz frequency band. It is based on our H2024 high gain Helical Antenna. Additional mounting options are also available.

APPLICATION

Ideal for underground corridors, mining, security applications and other wireless applications

SPECIFICATIONS

ELECTRICAL

MODEL	BDH2024	
Frequency Range	2.4 - 2.5GHz	
Gain (dBi)	15	
Impedance [Ohms]	50	
Cross Pol. Rejection	20dB	
Polarization	Right or Left Circular	
VSWR:	Min	1.1
	Max	1.5
	Typical	1.35
HPBW:	Horz.	23
	Vert.	23
Std. Connector	N-Female	
Max. Input Power [watts]	50W	
Operating Temperature	+70C to -40C	

MECHANICAL

MODEL	BDH2024	
Number of Elements [turns]	20	
Overall Length [in.]	60.43" (153.48 cm)	
Ground Plane Diameter	5.5	
Helical Diameter	2	
Antenna Weight	2.5lbs (1.13 kg) - with mount	

MOUNTING OPTIONS

MODEL	BDH2024	
Mast size(O.D.)	2" O.D. Pipe	

WIND LOADING

MODEL	BDH2024	
Wind Area:	Sq. ft. (No Ice)	0.6
	(1/2" Radial Ice)	0.9
Wind Load	Ft - lbs * (No Ice)	27
	** (1/2" Radial Ice)	12

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

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

*** Maximum Wind Speed at sea level with 100% Humidity at 70° Fahrenheit. Safety factor of 1.65 included

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

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