



# Bi-Conical Monopole

02-00131 | 1-20kW | 3-30MHz

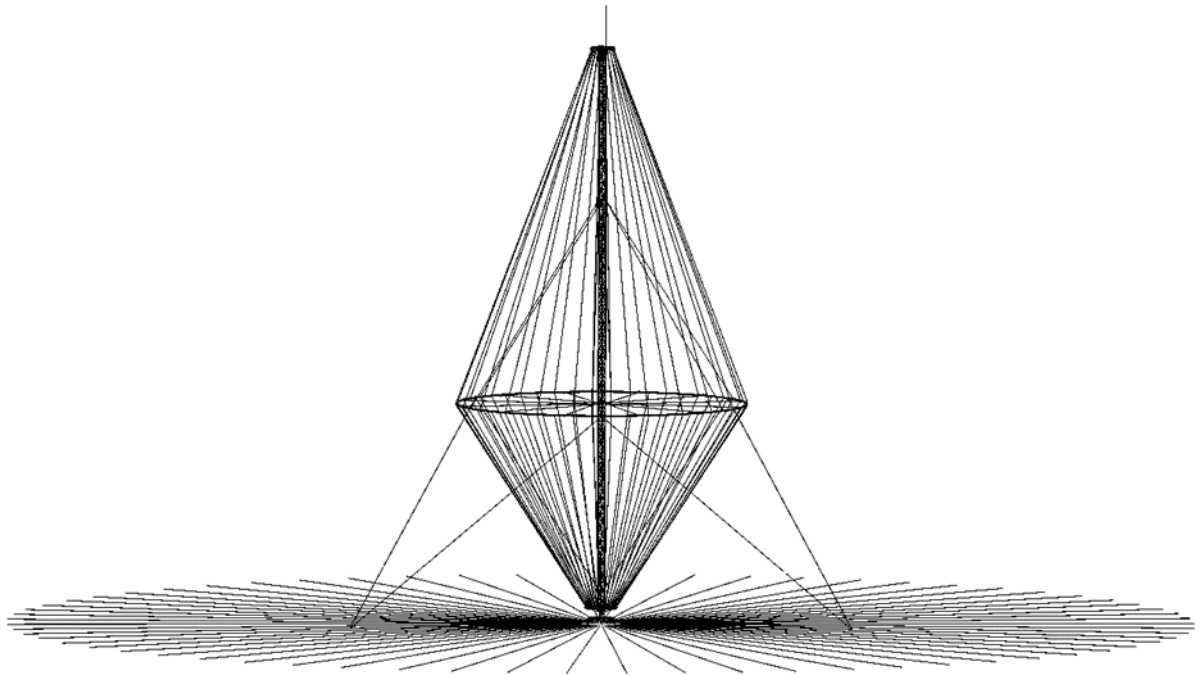


Figure 1 – 02-00131 Installed Antenna

The Lencom® 02-00131 Broadband Monopole antenna has been designed for fixed station, multi-frequency operation, and covers the entire frequency range of 3-30MHz with a power rating of up to 20kW Average.

The conical nature of the radiating elements provides outstanding efficiency over the entire HF spectrum.

The antenna displays an omnidirectional radiation pattern, allowing for all round communication.

The antenna is fed at the antenna base via a standard 1 5/8" connector.

The antenna is supplied with the wirework in a ready-to-be-assembled state. Except for the mast, all the necessary equipment is to be found in the kit.

The maximum VSWR is typically less than 2:1 over the entire HF band.

No antenna tuner is required.

The antenna elements are constructed of stranded stainless steel wire rope for long life and resistance to kinking.

Lencom can supply masts suitable for the 02-00131.



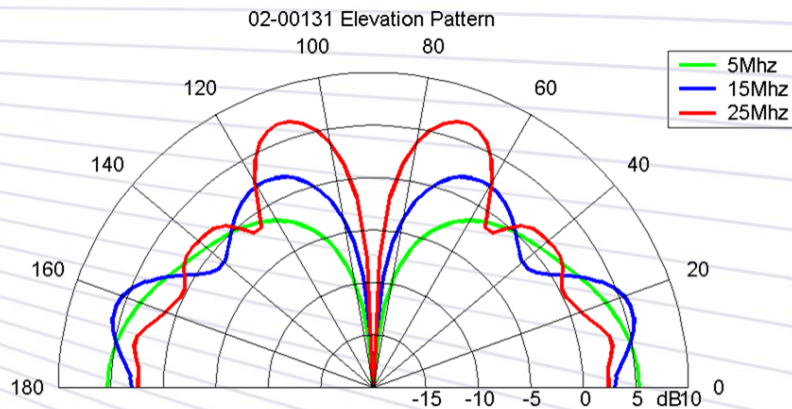
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### Key Characteristics

Data Sheet

<i>Frequency range</i>	3-30MHz
<i>Power rating</i>	1-20kW average
<i>Input impedance</i>	50Ω
<i>VSWR over range</i>	<2:1 (typical)
<i>Isotropic gain</i>	8dbi   absolute maximum 6dbi   average maximum across elevations 4dbi   typical
<i>Radiation pattern</i>	Refer radiation plot
<i>RF connector type</i>	1 5/8" EIA (other connectors available on request)
<i>Wind rating</i>	320km/h (no ice)
<i>Space requirement</i>	28m radius circle (for ground wires)
<i>Mast requirement</i>	25m



**Figure 2 – Radiation Pattern**  
 Modelled above perfect earth; Azimuth slice taken at an elevation of 35degrees from horizon;  
 Elevation slice taken at an azimuth angle of 90degrees from broadside

Specifications subject to change without notice