



Bi-Conical Monopole

02-00470 | 1-20kW | 2 - 30MHz

02

Data Sheet

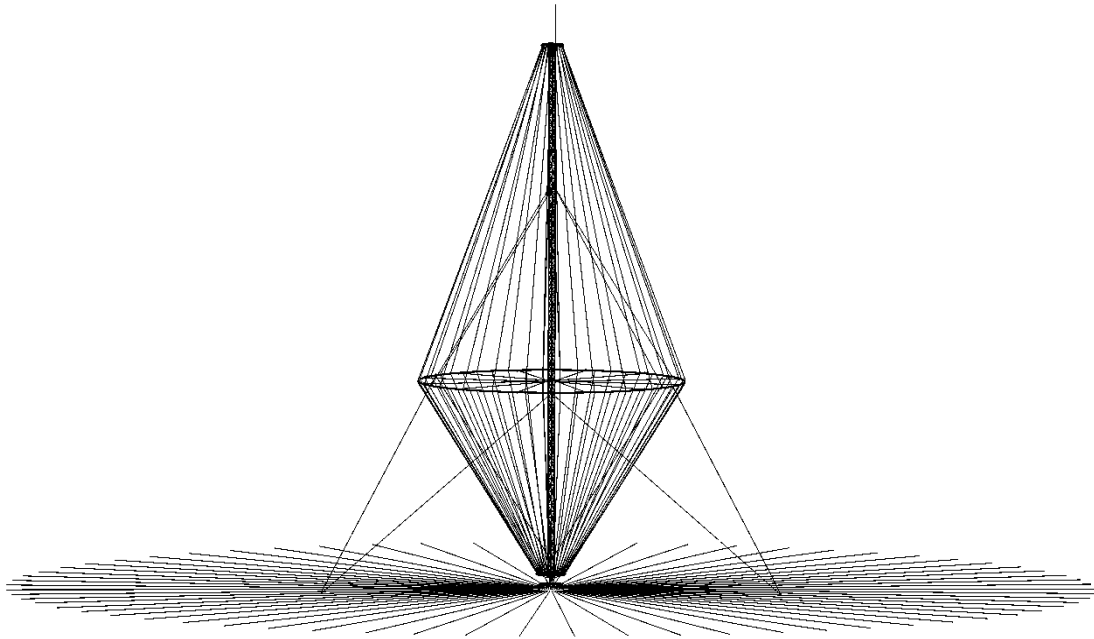


Figure 1 – 02-00470 Installed Antenna

The Lencom® 02-00470 Broadband Monopole antenna has been designed for fixed station, multi-frequency operation, and covers the entire frequency range of 2–30 MHz 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 omni-directional radiation pattern, allowing for all round communications.

The antenna is supplied with the wire work 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 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 Antenna can supply suitable masts for the 02-00470.

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Key Characteristics¹

<i>Frequency range</i>	2 - 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>Input Balun</i>	No Balun Required
<i>RF connector type</i>	Various depending on power rating.
<i>Wind rating</i>	230km/h (no ice)
<i>Mast requirement</i>	34m
<i>Earth mat radius</i>	38m

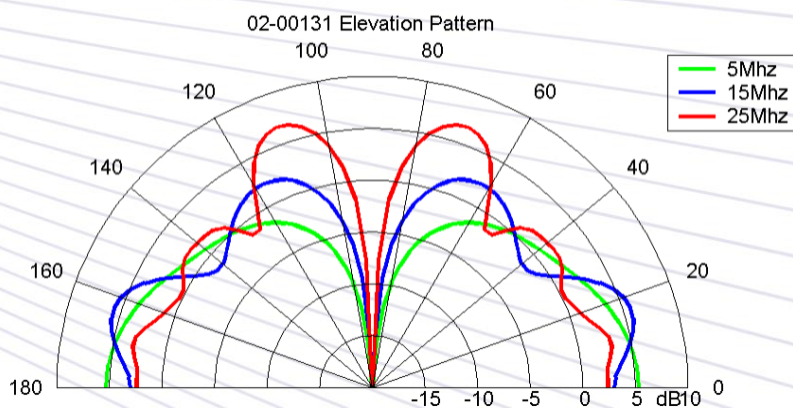


Figure 2 – Radiation Pattern

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

¹ Specifications subject to change without notice