



Bi-Conical Monopole

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

02

Data Sheet

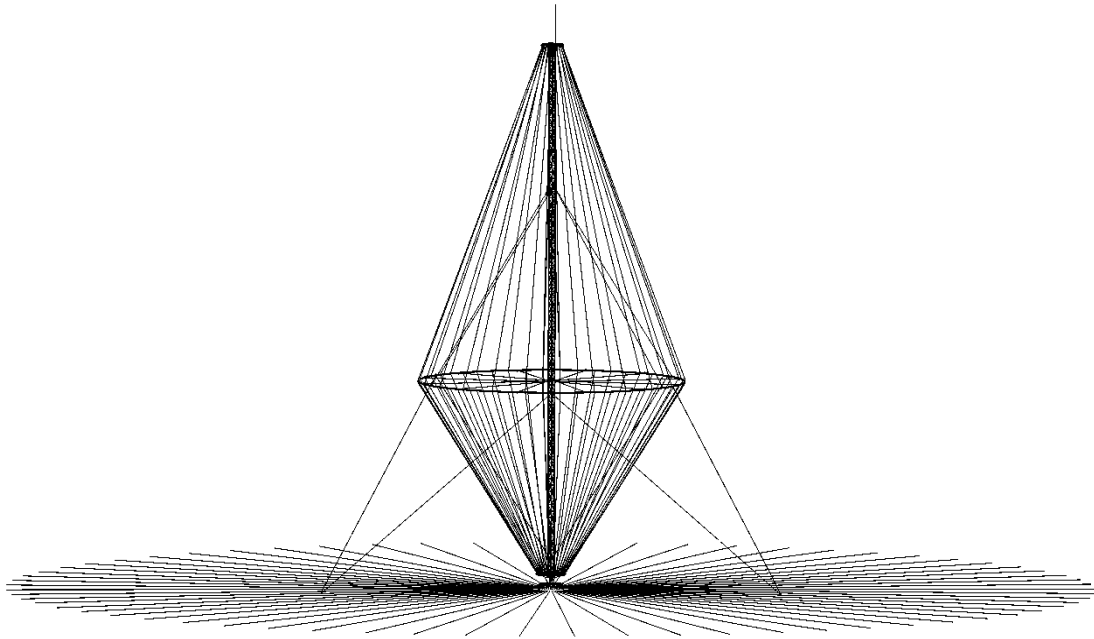


Figure 1 – 02-00470 Installed Antenna

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.

Bi-Conical Monopole

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

02

Data Sheet

Key Characteristics¹

| | |
|-------------------|---|
| Frequency range | 2 - 30MHz |
| Power rating | 1 - 20kW average |
| Input impedance | 50Ω |
| VSWR over range | <2:1 (typical) |
| Isotropic gain | 8dbi absolute maximum 6dbi average maximum across elevations 4dbi typical |
| Radiation pattern | Refer radiation plot |
| Input Balun | No Balun Required |
| RF connector type | Various depending on power rating. |
| Wind rating | 230km/h (no ice) |
| Mast requirement | 34m |
| Earth mat radius | 38m |

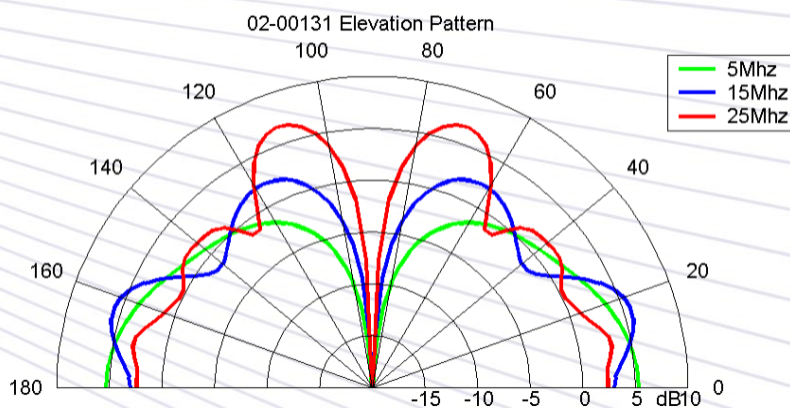


Figure 2 – Radiation Pattern

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