



# Two-Wire Folded Broadband Dipole

LB003-6 | 150W | 2-30MHz

01

Data Sheet

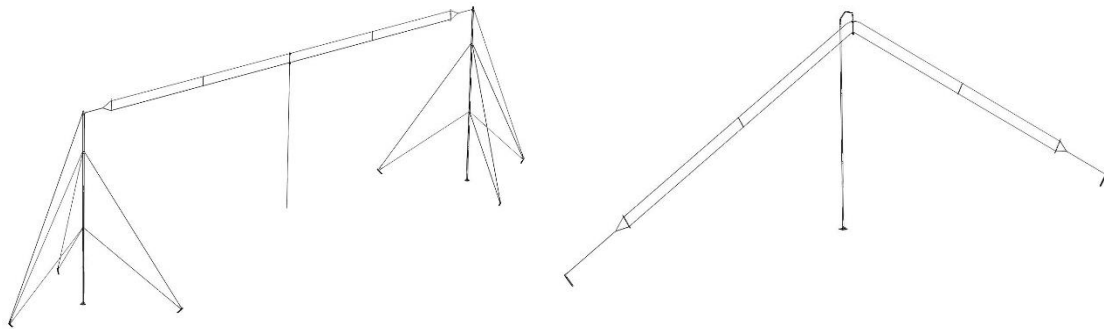


Figure 1 – Installed Antenna: Horizontal and Inverted-V installations

The Lencom® LB00 range of two-wire folded broadband dipoles is designed for fixed station, multi-frequency operation, and covers the entire frequency range of 2-30MHz with a power rating of 150W PEP (100W average).

A 500W PEP (300W average) and 1KW PEP (600W average) variant is available.

No antenna tuner is required.

Three different standard lengths are offered: all provide VSWR of typically less than 2:1 over the whole range, but increase in efficiency with length. Standard lengths are 27m (LB005), 34m (LB004) and 43m (LB003). While these are standard lengths, Lencom can manufacture to the customer's length requirements.

The antenna can be mounted horizontally between two masts, or as an inverted-V using a single central mast.

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

Installation is made easy as the antenna elements are rolled on to cardboard tubes to enable the antenna to be easily unrolled on site.

The antenna is fully assembled, and no specialised tools are needed for installation.

Lencom can provide extremely lightweight aluminium masts for either application.



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### Key Characteristics

<i>Frequency range</i>	2-30MHz
<i>Power rating</i>	150W PEP (Optional 500W or 1kW PEP)
<i>Input impedance</i>	50Ω
<i>VSWR over range</i>	<2:1 (typical)
<i>Radiation pattern</i>	Refer radiation plot
<i>RF connector type</i>	UHF socket
<i>Wind rating</i>	160km/h (no ice)
<i>Mast requirement</i>	10m – 12m (6m minimum)
<i>Packed Weight</i>	12kg (27m version)
<i>Packed Dimensions</i>	800mm x 600mm x 250mm

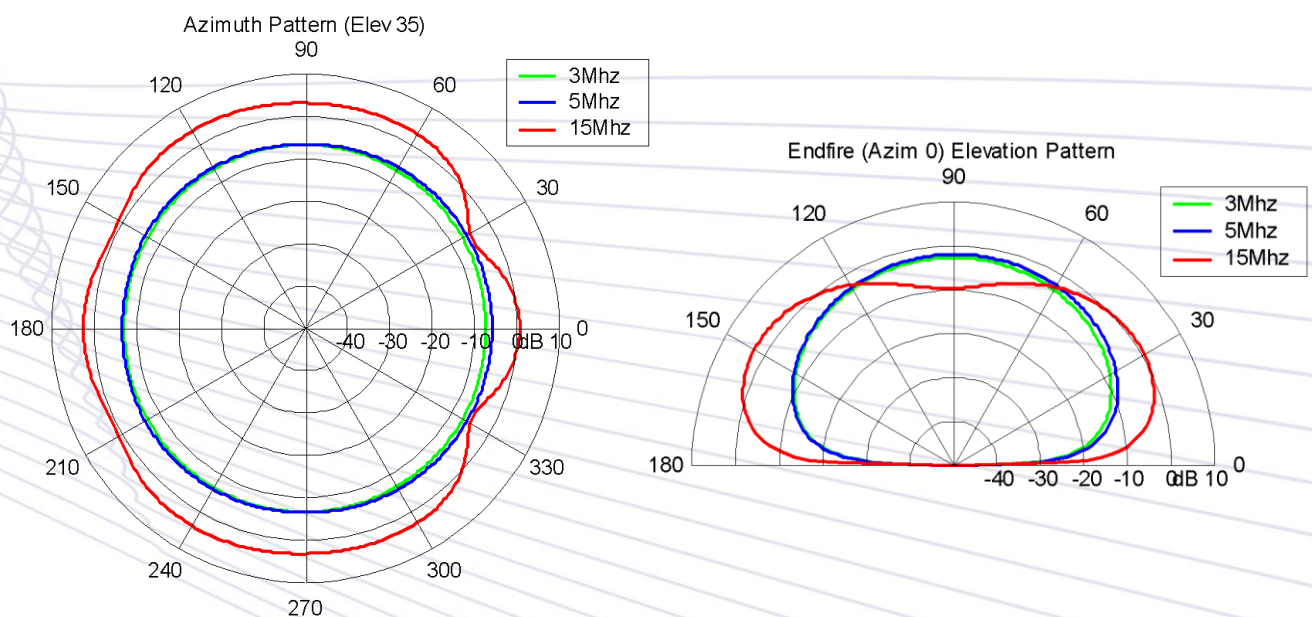


Figure 2 – Radiation Patterns

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

### Accessories

<i>Masts</i>	6m (02-2176-001), 9m (LA011), 12m (LA006)
<i>Earthing Kit</i>	01-1010-001
<i>Lightning Arrestor</i>	LA088
<i>Coaxial Cable</i>	