

Figure 1 – Antenna shown truncated for clarity

The Lencom® 2176 Tactical Broadband HF Antenna has been designed to be manportable and rapidly deployable for NVIS operation.

It covers the entire frequency range of 2-30MHz with no gaps and a power rating of 150W PEP.

No antenna tuner is required.

Installation is quick and easy as the antenna comes in a bag as a single piece.

Product Information

The antenna is constructed of Kevlar reinforced antenna wire for strength, long life and immunity to kinking.

To install, the antenna simply needs to be unrolled and the coaxial cable attached. End anchor stakes are included.

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

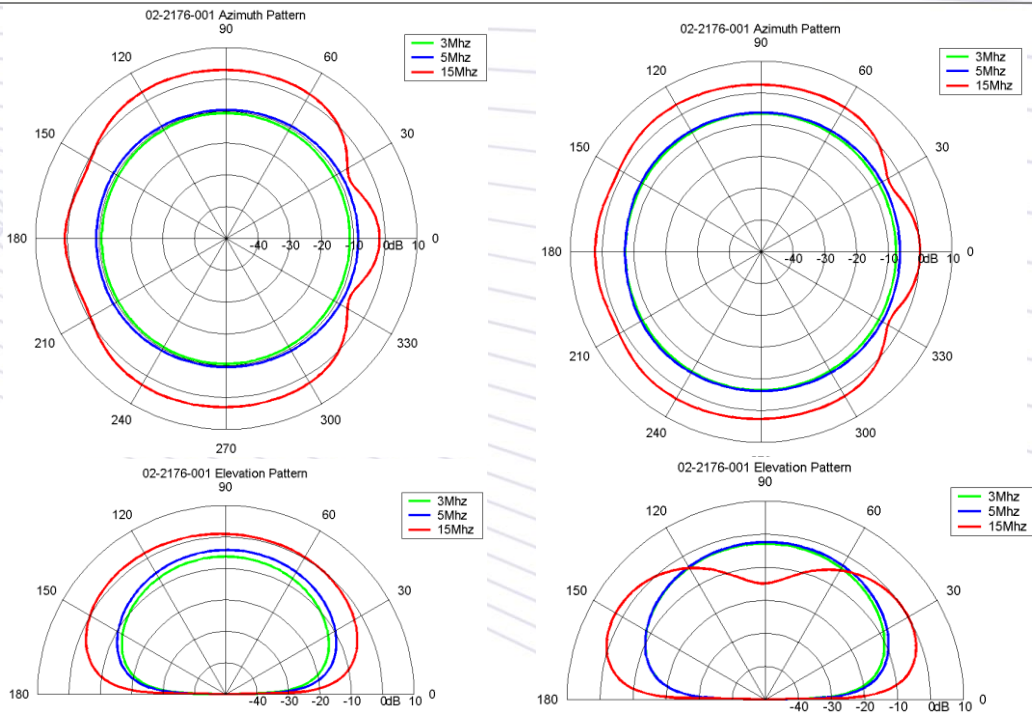
It is designed to drop directly over any mast that has an outer diameter top section of

22.23mm, or into one that has an inner diameter top section of 32mm.

The Lencom 02-2165-002 10m and 02-2166-002 6m tactical masts are designed specifically to go with this antenna. 10m is the optimum height for general communications, and 6m will improve Near Vertical Incidence Skywave (NVIS) radiation for communications over shorter distances

Key Characteristics

Frequency range	2-30MHz
Power rating	150W PEP, 100W average
Input impedance	50 Ω
VSWR over range	Generally <2:1
RF connector type	N socket
Wind rating	160km/h, no ice
Mounting hardware	All supplied
Package details (Packed bag)	5kg, including anchor stakes
Suggested Masts	Lencom 02-2165-002 10m tactical mast Lencom 02-2166-002 6m tactical mast
Anchor stake spacing	Typically 31m (6m mast), 36m (10m mast)



Radiation patterns are of the antenna in Inverted V configuration
Antennas were modelled above perfect earth
The dipole elements run along the 0° to 180° line
Azimuth slice taken at an elevation of 35° from the horizon
Elevation slice taken at an azimuth angle of 90° from broadside
Gain is absolute in dBi