



Focussed Lineally Amplified Gain Antenna (FLAG Antenna)

02-00591 | Rx to 15kW | 26 – 36 or 30 – 40 MHz

01

Data Sheet



Figure 1 - FLAG Antenna

The Lencom® FLAG antenna is a specialist log periodic dipole that has been designed for fixed station or radar operations and covers two primary frequency ranges with a power rating of up to 15kW average:

- 02-00591-50 26-36MHz
- 02-00591-58 30-40MHz

Light weight and rugged in design, the radiators and mounting boom/feedline are made from corrosion-resistant aluminium as is the rear mast. The forward mast and guys are manufactured using electrically transparent materials.

The FLAG antenna is suitable for vertical or horizontal polarisation by simple change of mounting position. The antenna is easily transported in kit form and assembled on remote sites by two operators

High gain and low VSWR over the band with no tuning required.

Power ratings from receive through to 15kW average power. Input connector types are dependent on power ratings.

The antenna can be produced in either single or multiple layer configurations.

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Key Characteristics

Frequency ranges	26 – 36MHz 30 – 40MHz
Power rating	Rx to 15kW average
Input impedance	50Ω
VSWR over range	<1.5:1 (typical)
Isotropic gain	8dBi 30-40 MHz 7dBi 26-36 MHz
Radiation pattern	Refer radiation plot (Fig 2)
Input Balun	No balun required
RF connector type	Various depending on power rating
Wind rating	200km/h (no ice)
Mast requirement	Subject to configuration

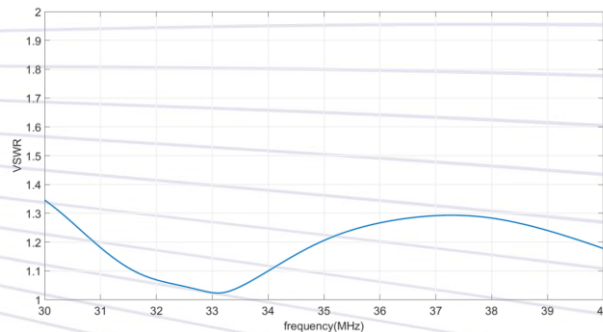


Figure 2 – VSWR Sweep (Modelled)

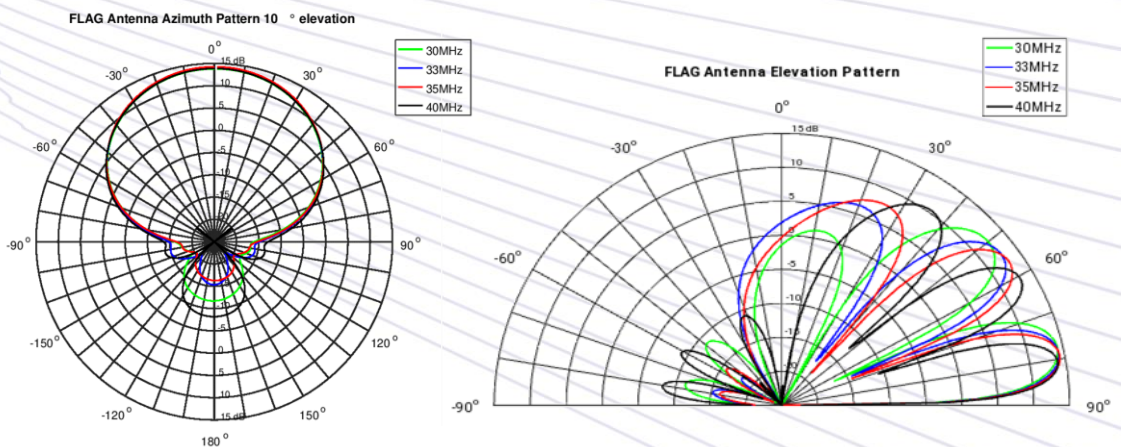


Figure 3 – Radiation Patterns for Horizontal Installation

Modelled above perfect earth; Azimuth slice taken at an elevation of 10 degrees from horizon;
Elevation slice taken at an azimuth angle of 90degrees from broadside