



Interlaced Delta

02-00188 | 1kW 2-30MHz

01

Data Sheet

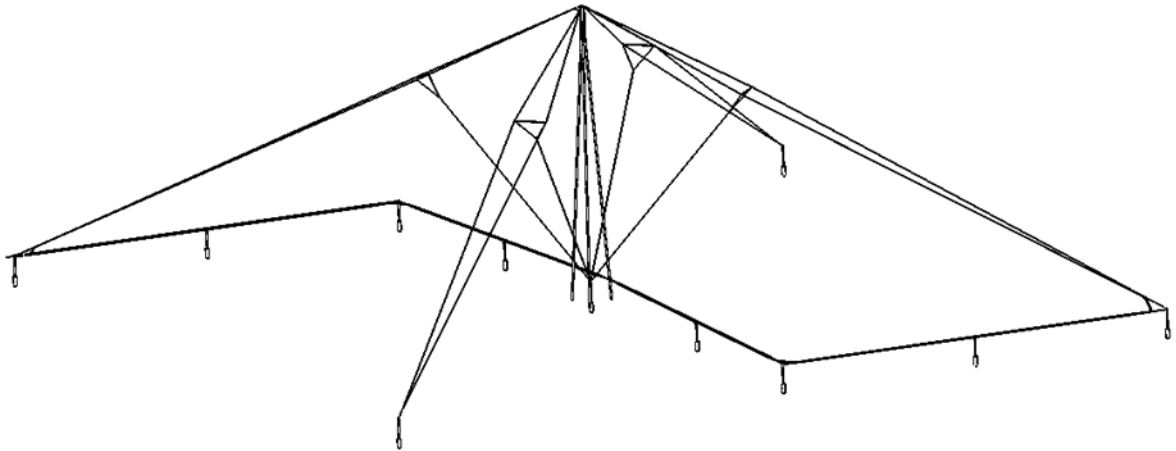


Figure 1 – 02-00188-00 Installed Antenna

The Lencom® 02-00188-00 Interlaced Delta antenna has been designed for fixed station, multi-frequency operation, and covers the entire frequency range of 2-30MHz with a power rating of 1kW PEP.

The high take-off angle makes this arrangement ideal for short to medium communications, near vertical incidence skywave and ground to air transmissions.

Where a standard delta has termination resistors, the Interlaced Delta redirects the power to a second set of radiating arms. This results in a much higher level of radiated energy and an increase in gain of up to 4dB over a normal delta.

The 02-00188-00 is an ideal antenna for high performance communication networks.

The antenna displays the normal, omnidirectional radiation pattern of a dipole, allowing for all round communication.

The VSWR is typically less than 2.5:1 over the whole frequency band.

No antenna tuner is required.

Key Characteristics

<i>Frequency range</i>	2-30MHz
<i>Power rating</i>	1kW (PEP)
<i>Input impedance</i>	50Ω
<i>VSWR over range</i>	Generally <2.5:1
<i>Isotropic Gain</i>	6dbi (typical)
<i>Radiation pattern</i>	Refer radiation plot
<i>RF connector type</i>	N socket
<i>Wind rating</i>	200km/h (no ice, free air)
<i>Required Mast Height</i>	30m
<i>Required Ground Footprint</i>	95m x 95m
<i>Packed dimensions/weight</i>	900x800x300mm 70kg

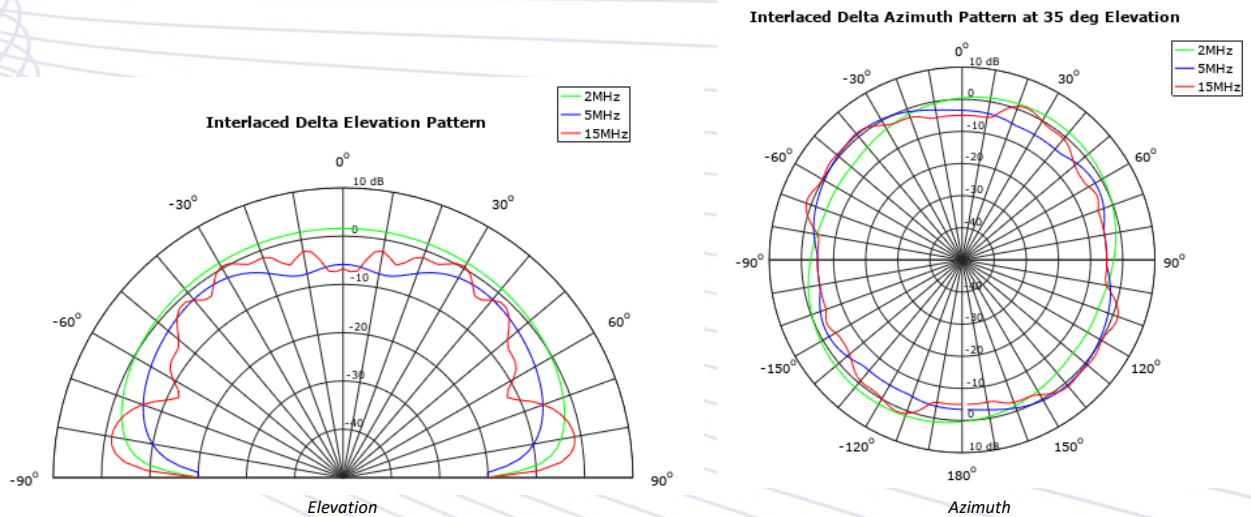


Figure 2 – Radiation Patterns
Modelled above average ground

Azimuth slice taken at an elevation of 35degrees from horizon. Elevation slice taken at an azimuth angle of 90degrees from broadside

AVAILABLE ACCESSORIES

Earthing kit	Coaxial Cable	Lightning Arrestor
Earthing kit	Available to customer specifications	Lightning arrestor

Specifications subject to change without notice