

Horizontal Bi-Conical Dipole 02-00040 | 20kW | 2/3-30MHz

02



Figure 1 - 02-00040 Installed Antenna

The Lencom® 02-00040 Horizontal Biconical Dipole antenna has been designed for fixed station, multi-frequency operation.

Lencom produces two standard versions:

02-00040-04 which and covers a 3-30MHz range; and

02-00040-06 which and covers a 2-30MHz range.

Both units come standard with a power rating of 1kW average, but can be supplied for power levels up to 20kW average.

The semi-conical nature of the radiating elements provides impressive efficiency over the entire HF spectrum. 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 band and less than 2:1 over most of the band.

No antenna tuner is required.

The antenna elements are constructed of stranded, stainless steel wire rope for long life and resistance to kinking and the main support wire is constructed from galvanised steel for strength.

Lencom can provide masts suitable for the 02-00040.



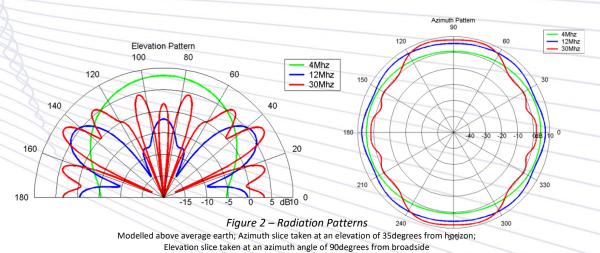
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Key Characteristics

Frequency range¹	02-00040-04 3-30MHz 02-00040-06 2-30MHz
Power rating	1-20kW average
Input impedance	50Ω
VSWR over range	<2:1 (typical)
Isotropic gain	8dbi (typical)
Radiation pattern	Refer radiation plot
Input Balun	Up to 20kW 50/150
RF connector type	N socket 1 5/8" EIA 3 1/8" EIA
Wind rating	320km/h (no ice)
Mast requirement	02-00040-04 Min: 15m, Preferred: 20m 02-00040-06 Min: 25m
Installation length	02-00040-04 Mast to Mast 39.5m 02-00040-06 Mast to Mast 61.4m
Packed dimensions/weight	02-00040-04 800x800x500mm 150kg 02-00040-06 800x800x500mm 180kg



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 $^{^{}m 1}$ Note: VSWR performance at the low end of the frequency band is sensitive to ground and site conditions.