

Full Wave Cage Dipole

The 8-Wire Full Wave Cage Dipole Antennas is a high-performance solution for exceptional transmission and reception across a broad bandwidth. Leveraging advanced design principles, it achieves an impressive 2:1 bandwidth for transmission and 2.5:1 for receiving, making it a reliable choice for versatile communication needs.

With a high characteristic impedance of 600 ohms, the antenna supports flexible feeding options, accomodating 600-ohm open wire lines or coaxial cables with a Balun transformer for seamless integration into existing setups.

Its innovative Quadrant variation bends the full wave cage dipole 90 degrees at the centre, creating an omni-directional horizontal radiating pattern while preserving vertical pattern, bandwidth, and power rating. For even greater performance, Quadrant antennas can be grouped on a four-mast arrangement, optimising bandwidth and efficiency by enabling up to four antennas to operate in unison. This design ensures robust coverage and reliable communication across a wide range of frequencies, making it a versatile and powerful tool for modern communication system.



Specification	Fan Dipole Antenna
Bandwidth	1.5 - 2.5 : 1 of designed frequency
Design Frequencies Available	2.5 - 30MHz
Design Length	Dependent upon design frequency
Input Impedance	500 ohm
Power Rating	Up to 10kW
VSWR	>2:1

