



VHF UHF Wide Band Discone Antenna

AWD-66-512

66-512 MHz

2 dBi Gain

Key Design Features & Applications: The AWD-66-512 is a heavy-duty, military-grade, wide-band discone antenna engineered for omni-directional ground-to-ground and ground-to-air communication. Operating efficiently across the entire 66–512 MHz spectrum with a 2 dBi gain and low VSWR, it serves as both a high-efficiency transmitting and receiving base station antenna, eliminating the need for multiple antenna systems. Its wide vertical beam-width ensures seamless communication across land, sea, and air, while the specialized powder-coated finish protects all metallic surfaces against extreme environments, including corrosive coastal gases, UV radiation, salt spray, acid rain, and desert sandstorms.

Rugged Construction & Easy Installation: AWD-66-512 built for all-weather durability, this compact discone antenna requires no field tuning or adjustments and features specialized mounting hardware for rapid deployment. The cone and disc hubs are constructed from ultra-corrosion-resistant 6063T6 anodized aluminum alloy, while all screws, nuts, and bolts are made of marine-grade stainless steel. For complete weather protection, the antenna termination and feed cable are enclosed entirely inside the mounting pipe. Finished in a protective Military Olive Green powder coating, the entire unit is shipped disassembled for easy transport and can be fully assembled in the field in 5 minutes without any special tools.

Environmental Protection: The entire metallic assembly of AWD-66-512 antenna is finished with a specialized, epoxy-based powder coating in military olive green, offering high-durability protection against UV degradation, corrosive gases, coastal salt spray, acid rain, and abrasive desert sandstorms. This compact, maintenance-free discone antenna is engineered to deliver reliable, long-term survivability for fixed-station infrastructure and mobile deployable defense communication networks.

Electrical Specifications:

Frequency Range	66 - 512 MHz.
Gain - Typical	2 dBi.
Bandwidth	Entire 66-512MHz Band
Polarization	Vertical
Input Impedance	50 Ohms.
Radiation Pattern	Omni-Directional
Vertical Beam-width –Half Power Points.	72 Degrees
VSWR – Better Than	2.5:1
RF Power Handling Capacity	500 Watts
Input Termination	N-Female

Mechanical Specifications:

Materials	6063T6 Aluminum Alloy
Mounting Hardware -Materials	High Grade Stainless Steel
Weight Approx	8 Kgs.
Wind Rating	200 Km/Hr.
Overall Length	1.25 Meter
Shipping Length	1.65 Meters
No. of Disk & Cone Elements	12 & 9 Nos.
Max. Mount Pipe Diameter	52mm (2 Inches)
Corrosion Protection	Epoxy-Based Powder Coating

Environmental Specifications:

Operating Temperature	(-)30 to +70 Degrees Celsius
Storage Temperature	(-)40 to +80 Degrees Celsius
Humidity	0 to 95% RH

Please contact us for further information like Azimuth & Elevation radiation patterns, Image and frequency Vs VSWR graph.

