

Product Data



Part Number	AE-AWD100-3000
Description	Wide Band Omni Direction Discone Antenna

Feature

AE-AWD100-3000 wide band discone antenna is specially designed for Omni-Directional coverage. Due to its low VSWR through the entire band 100-3000MHz this discone can be used as a transmitting and receiving antenna.

Its high efficiency meets the broadband requirement of a base station antenna for spectrum monitoring or jamming applications without the need of multiple antennas.

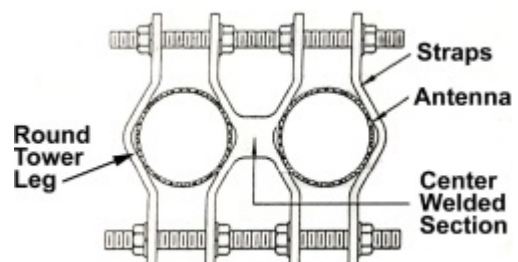
The AE-AED100-3000 wide band discone antenna is ruggedized for all weather conditions and does not require any field tuning or adjustment. The compact size of this discone antenna allows for easy handling and has specially designed mounting hardware for fast installation. The wide band discone antenna when packed comes with

the cone and disc elements removed from the antenna body for easy shipment.

Construction

The wide band discone antenna uses 6063T6 ultra corrosion resistant architectural anodized aluminium alloy with powder coating finish to protect the antenna further from severe environmental conditions. The cone and disc hubs of the wide band discone antenna are made of chromium plated brass and all fasteners are of stainless steel.

The antennas termination and feed cable is enclosed inside the mounting pipe for complete weather protection. All screws, nuts and bolts are made of type 316 marine grade stainless steel.



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Description **Wide Band Omni Direction Discone Antenna**

ELECTRICAL SPECIFICATIONS:

Frequency Range	100 - 3000 MHz.
Gain	Unitv (2.15 dBi.)
Bandwidth	Entire Band
Polarization	Vertical
Input Impedance	50 Ohms.
Radiation Pattern	Omni-Directional
Vertical Beam-width –Half Power Points.	78 Degrees
VSWR	2.5:1
RF Power Handling Capacity	500 Watts
Input Termination	N-Female

MECHANICAL SPECIFICATIONS:

Materials	6063T6 Aluminum Alloy
Mounting Hardware -Materials	Marine Grade Stainless Steel
Weight Approx	7.5 Kgs.
Wind Rating	200 Km/Hr.
Overall Length	0.9 Meter
Shipping Length	1.0 Meter
Support Pipe Materials	Powder Coated MS
Elements Materials	6063T6 Aluminum Alloy
Insulator Materials	Teflon & Nylon
Maximum Mount Pipe Diameter	52 mm (2 Inches)

ENVIRONMENTAL SPECIFICATIONS:

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

All information contained in this datasheet is subject to change without prior notice.

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Description	Wide Band Omni Direction Discone Antenna Installation Instructions

Note: Installation, maintenance of this antenna system should be only carried out by qualified and experienced personnel. Rojone & its partners cannot be held liable or responsible for improper or unsafe installation or maintenance practices.

Installation Instructions:

1. The discone antenna when packed comes with Cone & Disc elements removed from the antenna body for ease of pack & shipment.
2. Unpack discount antenna and it's accessories from the shipping box.
3. Connect the 8 Cone (longer) elements to the Ground Plane body (Cone Hub).
4. Connect the 8 Disc (smaller) elements to the Disc Hub.
5. Install the discone antenna on the top of the mast by using the two supplied mounting clamps and tighten all nuts and bolts.
6. Connect the N male connector on feeder cable to the N female termination on the antenna located at the bottom of the mounting pole.
7. Secure the flexible coax cable with cable ties.
8. Take VSWR reading; use a through-line RF power metre.
9. Keep record of the VSWR measurement.
10. Tighten all nuts and bolt so assure all is secure.



Disc & Cone Hub, 8 Cone (larger) elements & 8 Disc elements (Smaller) in kit plus mounting hardware components.



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