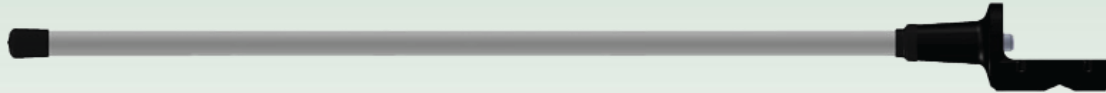


# 1-Port Omnidirectional Antenna



DS040353-1A

Model #: 104A-41B-03-00-07-N



## Description

This lightweight antenna with a broad frequency band and rugged construction is ideal for both base station and marine deployments. Radiating elements are encased in a weather-resistant, low-loss fiberglass radome. The size and mounting fixtures allow for easy storage and fast installation. Ideal for use where reliability is of the utmost importance. With a sturdy and strong construction, these antennas have been designed for a long lifetime.

## Features

- 3 dBd (5.2 dBi), vertically polarized, omnidirectional base station and marine antenna, covering the VHF band
- Shipped with the sturdy “LW” mast mount – a lightweight, multipurpose, epoxy-coated mounting bracket made of non-corrosive aluminum
- The accompanying U-bolts and fittings are made of stainless steel
- Can be mounted vertically or horizontally on 16–54 mm (0.6–2.1 in) diameter mast tubes
- Cable can be led either on the outside or along the inside of the mast tube
- Wide bandwidth with respect to both VSWR and gain
- The phasing of the radiating elements is adjusted to yield maximum gain in the horizontal plane with the level of the sidelobes reduced to a minimum
- To substantially reduce noise caused by atmospheric discharges, all metal parts in the antenna are DC-grounded. Consequently, the antenna shows a DC-short across the coaxial cable
- Vibration-proof, lightweight, slim-line, corrosion-resistant, modern style base station and marine antenna



### Electrical Specifications

Parameter	Value
Frequency Range (MHz)	149–171
Polarization	Vertical
Gain	3 dBd (5.2 dBi)
Azimuth Beamwidth (3 dB)	Omnidirectional
Elevation Beamwidth (3 dB)	30°
Impedance (Ohms)	50Ω
VSWR	< 1.5:1
Bandwidth	22 MHz
Maximum Input Power (Watts)	150 W
Antistatic Protection	All metal parts DC-grounded (Connector shows a DC-short)
HCM Code(s)	HCM000ND00, 015DE50

### Mechanical Specifications

Parameter	Value
Overall Height	2800 mm (110.2 in)
Diameter at Top End	Ø23 mm (0.9 in)
Diameter at Bottom End	Ø23 mm (0.9 in)
Mounting	On 16–54 mm (0.6–2.1 in) diameter mast tube
Antenna Weight	Approx. 1.4 kg (3.1 lbs)
Wind Area	0.0651 m <sup>2</sup> (0.70 ft <sup>2</sup> )
Wind Load at 160 km/h	82 N (18 lbf)
Connector Type	(1x) N Female at Bottom
Connector Torque	0.7–1.1 Nm
Radome Material	Polyurethane-Coated Fiberglass
Radome Color	White RAL9003
Mounting Hardware	Seawater-resistant aluminum, epoxy-coated; Clamps: Stainless steel
Shipping Weight	2.55 kg (5.6 lbs)
Packing Dimensions	3000 x 110 x 110 mm (118.1 x 4.3 x 4.3 in)
Shipping Comment	Universal stainless steel mast mounting clamp (LW-SS-1) packed separately

### Environmental Specifications

Parameter	Value
Operating Temperature	-30° to +70°C (-22° to +158°F)
Survival Wind Speed	200 km/h (124 mph)

Ingress Protection

IP66

