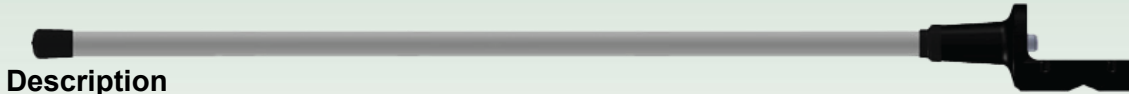


# 1-Port Omnidirectional Antenna



DS040349-1A

Model #: 104A-39D-03-00-07-N



## Description

These antennas feature a very broad frequency band, rugged construction and small size. Radiating elements are constructed of copper alloy, encased in a weather-resistant, low-loss fiberglass radome. The 'Light Weight' models terminate in a 1-inch-14 threaded ferrule which attaches directly to the mounting hardware. Due to their wide bandwidth, they are ideal for use as emergency backup antennas. Their size and mounting fixtures allow for easy storage and fast installation. Alternative mounting hardware is available for most applications.

## Features

- Broadband – reduces backup inventory and the need for multiple antennas
- Fiberglass radome protects radiating elements in hostile environments
- Copper elements maximize system performance while minimizing the possibility of intermod

## Electrical Specifications

Parameter	Value
Frequency Range (MHz)	156–163
Polarization	Vertical
Gain	3 dBd (5.1 dBi)
Vertical Beamwidth (3 dB)	35°
Impedance (Ohms)	50
VSWR	< 1.5:1
Maximum Input Power (Watts)	100 W
Lightning Protection	Direct Ground
Electrical Downtilt	0°
Horizontal Pattern	Omnidirectional
Antenna Type	Fiberglass Omni

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## Mechanical Specifications

Parameter	Value
Overall Length	2.62 m (8.6 ft)
Element Housing Length	2.56 m (8.4 ft)
Support Pipe Length	0.12 m (0.4 ft)
Mounting Pipe Diameter	0.03 m (1.2 in)
Connector Type	N Female at Bottom
Connector Location	Bottom
Mount Type	Fixed
Mounting Hardware	N275F
Rated Wind Speed	160 km/h (100 mph)
Weight	1 kg (2 lbs)
Shipping Weight	2.5 kg (5.5 lbs)
Shipping Dimensions	0.12 x 0.09 x 0.15 m (0.4 x 0.3 x 0.5 ft)
Radiating Element Material	Brass
Element Housing Material	Fiberglass
Support Pipe Material	Black Anodized Aluminum
Radome Color	White RAL9010
Max Wind Loading Area	0.048 m <sup>2</sup> (0.52 ft <sup>2</sup> )
Bend Moment @ Rated Wind (1" Below Top of Mt Pipe)	126 Nm (93 ft lbf)

## Environmental Specifications

Parameter	Value
Rated Wind Speed	160 km/h (100 mph)