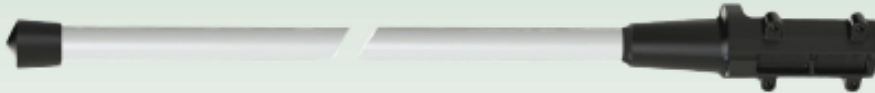


1-Port Omnidirectional Antenna



DS040360-1A

Model #: 104A-68-00-00-07-N



Description

These antennas feature a very broad frequency band and rugged construction. Radiating elements are constructed of copper alloy, encased in a weather-resistant, low-loss fiberglass radome. The “Heavy Duty” is permanently affixed to a unique mounting fixture which allows mounting on top of or along-side of most vertical supports. 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.

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)	450–512
Polarization	Vertical
Gain	0 dBd (2.1 dBi)
Vertical Beamwidth (3 dB)	78°
Impedance (Ohms)	50
VSWR	< 1.5:1
Maximum Input Power (Watts)	500 W
Lightning Protection	Direct Ground
Electrical Downtilt	0°
Horizontal Pattern	Omnidirectional
Antenna Type	Fiberglass Omni



Mechanical Specifications

Parameter	Value
Overall Length	0.94 m (3.1 ft)
Element Housing Length	0.82 m (2.7 ft)
Support Pipe Length	0.32 m (1.04 ft)
Mounting Pipe Diameter	0.08 m (3 in)
Connector Type	N Female
Connector Location	Bottom
Mount Type	Fixed
Mounting Hardware	Stainless Steel U-Bolts (E380-03F)
Rated Wind Speed	160 km/h (100 mph)
Weight	3 kg (6.6 lbs)
Wind Load - Side @ Rated Wind	209 N (47 lbf)
Shipping Weight	4 kg (8.8 lbs)
Shipping Dimensions	Packed with antenna
Radiating Element Material	Brass
Element Housing Material	Fiberglass
Support Pipe Material	Black Anodized Aluminum
Radome Color	White RAL9010
Max Wind Loading Area	0.07 m ² (0.75 ft ²)
Bend Moment @ Rated Wind (1" Below Top of Mt Pipe)	42 Nm (31.2 ft lbf)
Flexible Extensions	None

Environmental Specifications

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