

BA1312-3

Omnidirectional Fiberglass Antenna, 163-171, 5.1dBi, N Female



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 BA1012 and BA1312 "Light Weight" models terminate in a 1 inch-14 threaded ferrule which attaches directly to the N275F 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 / BENEFITS

- 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.

Technical features

ELECTRICAL SPECIFICATIONS

Horizontal Pattern		Omnidirectional
Frequency Range	MHz	163 - 171
Horizontal Beamwidth	deg	N/A
Gain	dBi (dBd)	5.1
Vertical Beamwidth	deg	35
Polarization		Vertical
VSWR		< 1.5:1
Bandwidth for 1.5:1 VSWR	MHz	< 1.5:1
Impedance	Ohms	50
Maximum Power Input	W	100
Lightning Protection		Direct Ground

GENERAL SPECIFICATIONS

Antenna Type		Fiberglass Omni
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MECHANICAL SPECIFICATIONS

Connector Type		N Female
Connector Location		Bottom
Weight	kg (lb)	1 (2)
Mount Type		Fixed
Mounting Hardware		N275F
Rated Wind Speed	km/h (mph)	160 (100)
Flexible Extensions		None
Overall Length	m (ft)	2.62 (8.6)
Element Housing Length	m (ft)	2.56 (8.4)
Mounting Pipe Diameter	m (in)	0.03 (1.2)
Support Pipe Length	m (ft)	0.12 (0.4)
Radiating Element Material		Brass
Element Housing Material		Fiberglass
Radome Color		White RAL9010
Mounting Hardware Material		N275F
Support Pipe Material		Black Powder Coated Aluminum
Max Wind Loading Area	m ² (ft ²)	0.048 (0.52)
Bend Mom @ Rated Wind 1" Below Top of Mt Pipe	N m (ft lbf)	126 (93)
Wind Load - Side @ Rated Wind	N (lbf)	71 (16)

PACKAGING INFORMATION

Shipping Weight	kg (lb)	1.2 (2.6)
Packing Dimensions, HxWxD	mm (in)	2700 x 60 x 60 (106.3 x 2.4 x 2.4)
Shipping Dimensions of Accessory - HxWxD	m (ft)	0.2 x 0.11 x 0.08 (0.66 x 0.36 x 0.26)
Shipping Comment		N275F Mounting Bracket Packed in Second Box (.7kg / 1.5lb)

External Document Links

Notes

- Radiating patterns: [Request pattern files](#)