

SD312-HF2P4SNM(D00B-WABK) 2 dipole 5.5 dBd, offset, N-Male, welded, ABK, HD, 406-512 MHz

- Covers 406-512 MHz frequency range
- 5.5 dBd gain with offset pattern
- Heavy duty with 150W power handling
- Top mount, welded, black anodized

The SD312-H series is an extremely rugged 2-bay exposed dipole antenna designed for applications in the 370-512 MHz range where moderate gain is required. These premium-quality antennas are well suited to public safety applications.

**Application Notes**

- For lower gain applications the SD310 single dipole configuration is available. For higher gain, the SD314, 4 dipole and SD318, 8 dipole configurations are available. For medium gain applications the SD312 is ideal.

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Region	United States	Europe, Middle East and Africa	Caribbean and Latin America	Canada and rest of the world
<b>Telephone</b>	USA: 1 800 263 3275	International: +44 (0) 1487 84 28 19	International: +1 905 726 7676	Canada: 1 800 263 3275 International: +1 905 727 0165
<b>E-mail</b>	salesusa@sinctech.com	salesuk@sinctech.com	salesla@sinctech.com	salescan@sinctech.com

### Electrical Specifications

Frequency Range	MHz	406 to 512
Bandwidth	MHz	106
Connector		N-Male *1
Gain (nominal)	dBd (dBi)	5.5 (7.6)
Input VSWR (max)		1.5:1
Polarization		vertical
Impedance	Ω	50
Pattern		Offset
Horizontal beamwidth (typ)	degrees	224
Vertical beamwidth (typ)	degrees	36
Average Input Power (max)	W	150
Lightning protection		DC ground
Electrical tilt (available)		0,2,4,6,8, or 10 degrees

### Notes

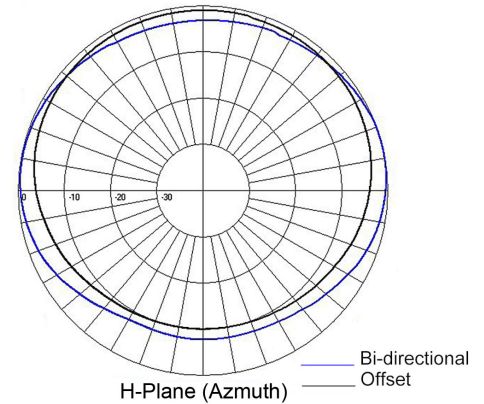
\*1 : N-Female available

### Mechanical Specifications

Width	in (mm)	10.5 (267)
Depth	in (mm)	3.5 (89)
Length/ Height	in (mm)	80 (2032)
Base pipe diameter	in (mm)	2.38 (60)
Base pipe mounting length	in (mm)	24 (610)
Radiating element material		aluminum
Base pipe material		aluminum
Finish		anodize (black)
Weight	lbs (kg)	13.6 (6.17)
Weight iced (1/2" ice)	lbs (kg)	18.4 (8.35)
Mounting Hardware (Optional)		Clamp005, Clamp015, Clamp130, or Clamp125U
Mounting configurations		top mount
Actual shipping weight	lbs (kg)	20 (9.08)
Shipping dimensions	in (mm)	83x20x5 (2108x508x127)

### Environmental Specifications

Temperature range	°F (°C)	-40 to +140 (-40 to +60)
Wind Loading Area (Flat Plate Equivalent)	ft² (m²)	1 (0.09)
Wind Loading Area (1/2" ice)	ft² (m²)	1.8 (0.17)
Rated wind velocity (no ice)	mph (km/h)	250 (403)
Rated wind velocity (1/2" radial ice)	mph (km/h)	180 (290)
Lateral Thrust (100 mph No Ice)	lbs (N)	41.5 (184.6)
Torsional moment (100 mph No Ice)	ft-lbs (Nm)	5.2 (7)
Bending moment (100 mph No Ice)	ft-lbs (Nm)	92.3 (124.6)
Tip deflection (100 mph No Ice)	degrees	0.1



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