1-Port Side Fed Dipole Deepwave Antenna

DS040364-1A

Model #: 104DW-83AF-10-01-07-D7

Description

The novel side-fed dipole design of these antennas provides 10 dBd omnidirectional gain with 60 MHz bandwidth. They feature constant beamtilt, heavy null fill, and have been VSWR tested. Depending upon the specific required area of coverage, horizontal patterns O, A, B, D, or H are available.

Features

- High gain maximizes ERP
- Heavy null fill enhances close-in coverage
- Customized beamtilt minimizes interference to and from adjacent systems
- Various patterns available to efficiently cover target area
- S-option 7/16 connector

Electrical Specifications

Parameter	Value
Frequency Range (MHz)	746–806
Polarization	Vertical
Gain	12.1 dBi
Azimuth Pattern	Omnidirectional
Azimuth Beamwidth (3 dB)	360°
Elevation Beamwidth (3 dB)	5°
Electrical Downtilt	0.75°
Impedance (Ohms)	50Ω
VSWR	< 1.5:1
Front-to-Back Ratio (dB)	Omni
1st Null Fill	Included
Null Fill	Included
Maximum Effective Power Per Port (Watts)	500 W
Lightning Protection	Top Rod Grounded to Base Mount

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Mechanical Specifications

Parameter	Value
Length	4260 mm (167.7 in)
Diameter	168.3 mm (6.6 in)
Net Weight - Antenna Only	24 kg (53 lbs)
Net Weight - Mounting Hardware Only	22.7 kg (50 lbs)
Max Wind Loading Area	0.48 m² (5.2 ft²)
Survival Wind Speed / Rated Wind Speed	200 km/h (125 mph)
Connector Type	(1x) 7/16 Female at Bottom
Radiating Element Material	Aluminum
Element Housing Material	Fiberglass
Shipping Dimensions	4572 x 356 x 330 mm (180 x 14 x 13 in)
Shipping	Antenna and mounting hardware are shipped separately.
Antenna Shipping Weight	41.7 kg (92 lbs)
Mounting Hardware Shipping Weight	23.6 kg (52 lbs)

Environmental Specifications

Parameter	Value
Installation Notes	• Always attach the antenna using all mounting points. • Do not install antenna with the connectors facing upwards. • For radiation patterns: Request pattern files at https://amphenol-antennas.com/contact

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