

Discone antenna, 100-500 MHz

DESCRIPTION

A Wideband Discone antenna commonly used for ground-to-air and frequency scanning applications. The discone element design provides reliable communications over an extremely wide operating bandwidth. The 7437 model is a reinforced version of the popular 7177 model for high wind applications.

- Former Jaybeam brand product.

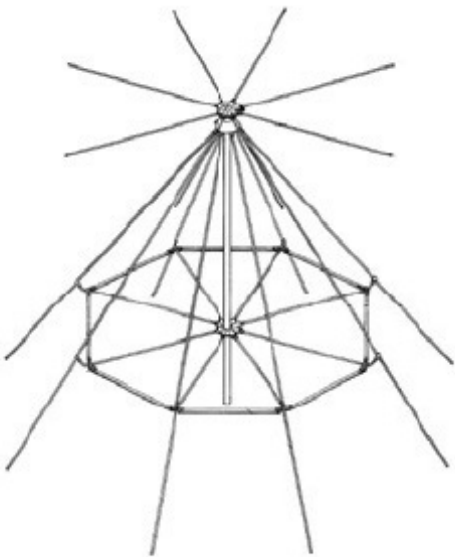
SPECIFICATIONS

Electrical	
Frequency	100 - 500 MHz
Max. Input Power	250 W
Polarisation	Vertical
3 dB Beamwidth, E-Plane	80 °
3 dB Beamwidth, H-Plane	Omnidirectional
Impedance	50 Ω
Gain	0 dBd (2.2 dBi)
VSWR	< 2.7:1 full band, < 2.0:1 typical over air band
Antistatic Protection	All metal parts DC-grounded (Connector shows a DC-short)

Mechanical	
Connection(s)	N(f) on 3m RG213/U cable
Materials	Elements, solid aluminium rod Spine, aluminium tube Bracings, aluminium and PVC
Dimensions	1170 x 1360 mm
Wind Load	186 N (160km/h)
Weight	5 kg / 11.02 lb
Mounting Bracket	0900964/00 (Ordered Separately)
Alternate Mounting Bracket	0300064/00 + U-bolts to match mounting pipe diameter (Ordered Separately)

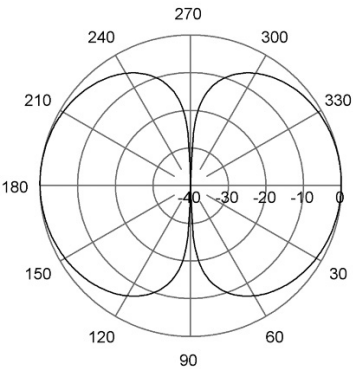
ORDERING

Model	Product No.	Frequency
Discone antenna, 100-500 MHz	7437010	100 - 500 MHz
Cast aluminium cross clamp, circular	0300064/00	
M8 x 50mm (2") U-Bolts (1 Pair)	4884036/00	
M8 x 75mm (3") U-Bolts (1 Pair)	4884076/00	
Stub mount clamp assy	0900964/00	



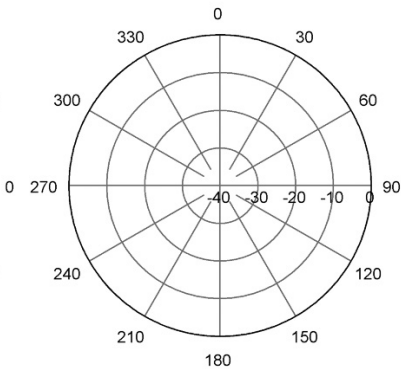
DIAGRAM

RADIATION PATTERNS



E-Plane | 300 MHz

RADIATION PATTERNS



H-Plane | 300 MHz