

8 element Yagi antenna 480-520MHz

DESCRIPTION

An 8-element UHF Yagi antenna for PMR/Trunked Radio and Telemetry. Produced to the highest quality standards these robust antenna designs will ensure reliable operation in harsh environmental conditions.

- Former Skymasts brand product.

SPECIFICATIONS

Electrical	
Frequency	480 - 520 MHz
Max. Input Power	150 W
Polarisation	Linear (Vertical or Horizontal)
3 dB Beamwidth, E-Plane	43 °
3 dB Beamwidth, H-Plane	50 °
Impedance	50 Ω
Gain	10 dBd (12.2 dBi)
VSWR	< 1.5:1
Front-To-Back Ratio	> 18 dB
Antistatic Protection	All metal parts DC-grounded (Connector shows a DC-short)

Mechanical	
Connection(s)	N(f) on 3m RG213/U cable
Materials	Boom, 32 mm dia. aluminium elements, 12.1 mm dia. aluminium balun, fully moulded enclosure
Length	1500 mm / 59.06 in.
Wind Load	90 N (160km/h)
Weight	2.3 kg / 5.07 lb
Mounting Bracket	3202078/68 + 0900174/00 (Ordered Separately)
Balun Encapsulant	Polyurethane Resin U-600
Alternate Mounting Bracket	0900912/00, 0302032/68, or 0300064/00 + U-Bolts to match mounting pipe diameter (Ordered Separately)

Environmental	
Ingress Protection	IP68

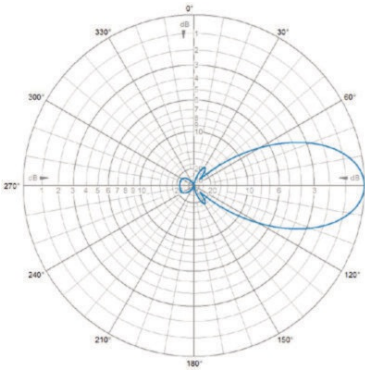
ORDERING

Type	Product No.	Frequency
8 element Yagi antenna 480-520MHz	S.8Y-500	480 - 520 MHz
Galvanised steel crossover bracket 32/50mm	0900912/00	
Pressed steel cross clamp 2" x 1-1/4" (JBL73)	0302032/68	
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	
Fixed norstel / coupler clamp (cross clamp)	3202078/68	
Increasing sleeve 1"-1-29/32"	0900174/00	



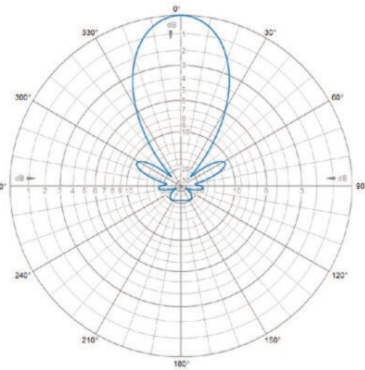
DIAGRAM

RADIATION PATTERNS



E-Plane | 500 MHz

RADIATION PATTERNS



H-Plane | 500 MHz

