WY 380-6N V2 WY 400-6N V2

UHF Base Station 6 Elements Yagi Antennas 380-470 MHz

MAIN FEATURES

- Directional Wideband Yagi antennas
- Developped to provide a highly symmetrical radiation pattern in E/H-plane
- Computer-designed for high gain and excellent front-to-back ratio
- Anodized aluminium and stainless steel hardware
- Fully designed & Manufactured in Italy

UP GRADED FEATURES

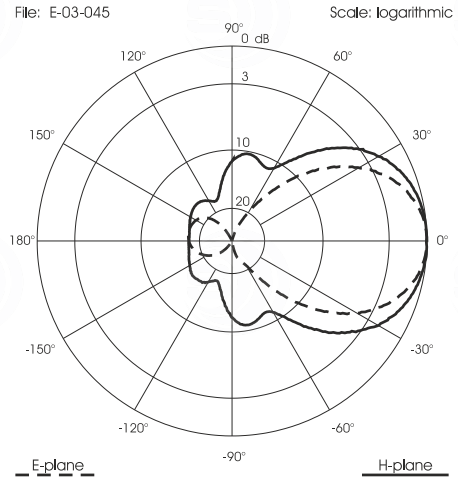
- Fully sealed, IP67 waterproof
- New internal design to maximize Power handling



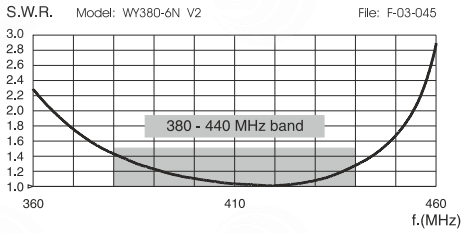
Electrical Data	WY 380-6N	WY 400-6N
Type	6 elements Yagi	
Frequency Range @ SWR ≤ 1.5	380 - 440 MHz	400 - 470 MHz
Impedance	50 Ω	
Radiation (H-plane) beamwidth @ -3 dB	70° - HCM code = 035EB00	
Radiation (E-plane) beamwidth @ -3 dB	55° - HCM code = 027EA14	
Front to back ratio	≥ 17 dB	
Polarization	Linear Vertical or Horizontal	
Gain	8.85 dBd - 11 dBi	
Max Power (CW) @ 30°C	160 Watts	
Grounding Protection	All metal parts are DC-grounded, the inner conductor shows a DC short	
Connector	N-female with rubber protection cap	

Mechanical Data		
Materials	Anodized 6063-T5 Aluminium, EPDM rubber, thermoplastic UV stabilized, Chromed Brass	
Wind Load @ 150 km/h	100 N	96 N
Wind Resistance	150 Km/h; 93 mi/h	150 Km/h; 93 mi/h
Wind Surface	0.078 m^2; 0.83 ft^2	0.075 m^2; 0.80 ft^2
Dimensions W x H (approx.)	1180 x 400 mm; 3.9 x 1.3 ft	1130 x 375 mm; 3.7 x 1.2 ft
Turning radius (approx.)	1050 mm; 3.5 ft	1000 mm; 3.3 ft
Weight (approx.)	1560 gr; 3.5 lb	1510 gr; 3.3 lb
Ingress Protection	IP 67	
Operating temperature	-40° C to +60° C	
Mounting Mast	∅ 35 - 60 mm; 1.4 - 2.4 in	
Boom / Dipole / Element Diameter	∅ 32 mm; 1.3 in / ∅ 24 mm; 0.95 in / ∅ 12 mm; 0.5 in	

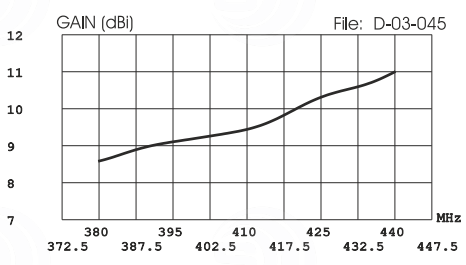
TYPICAL RADIATION PATTERN at mid-band



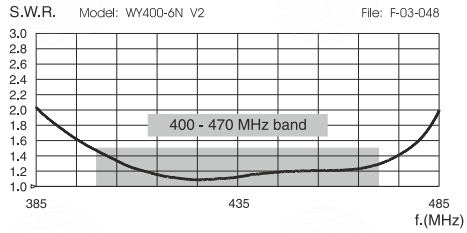
TYPICAL S.W.R. RESPONSE



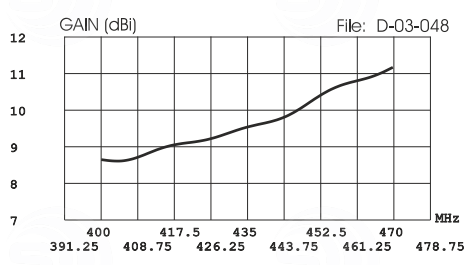
TYPICAL GAIN DIAGRAM vs FREQUENCY



TYPICAL S.W.R. RESPONSE



TYPICAL GAIN DIAGRAM vs FREQUENCY



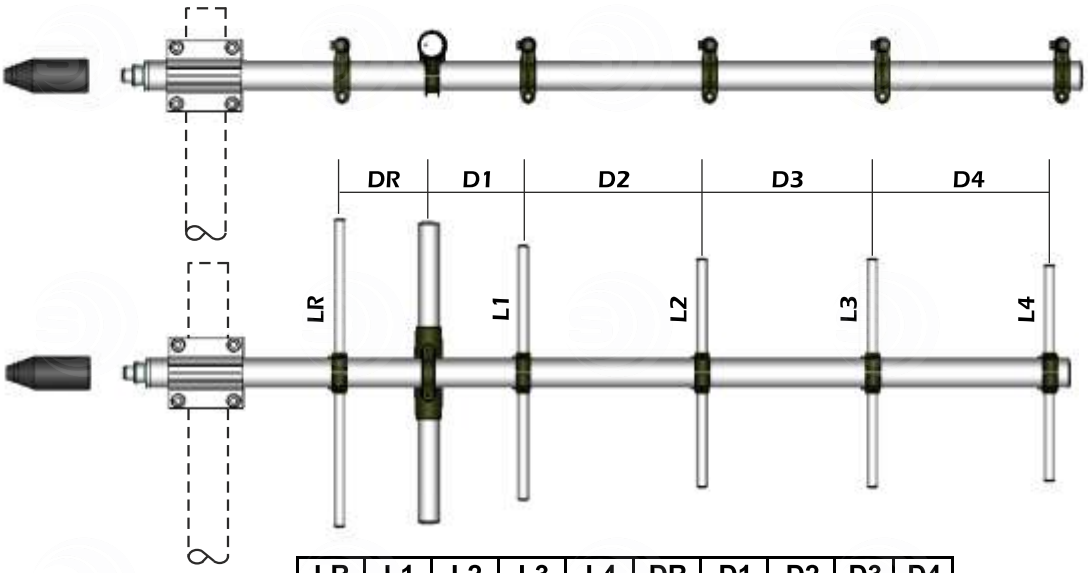
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MOUNTING INSTRUCTIONS

Correct mounting for horizontal polarization

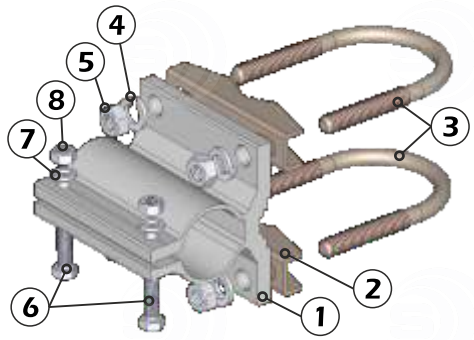
Correct mounting for vertical polarization

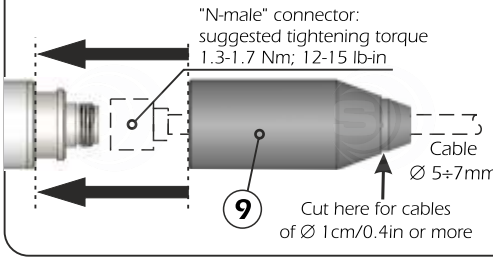


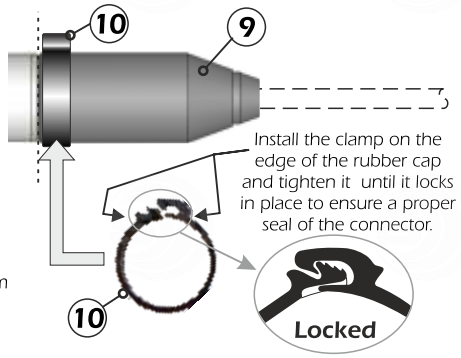
		LR	L1	L2	L3	L4	DR	D1	D2	D3	D4
WY 380-6N	(mm)	396	288	271	260	250	130	109	201	230	207
	(in)	15.6	11.3	10.7	10.2	9.8	5.1	4.3	7.9	9.1	8.1
WY 400-6N	(mm)	371	271	255	243	236	130	102	190	218	195
	(in)	14.6	10.7	10.0	9.6	9.3	5.1	4.0	7.5	8.6	7.7

Fig.1

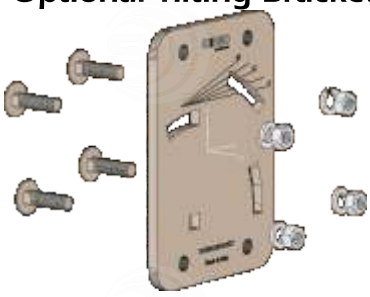
FT-6 Bracket Part list		
Pos	*Q.ty*	*Description*
1	1	Extruded aluminium bracket
2	2	Steel bracket
3	2	M8x216 U-bolt
4	4	M8 Grower washer
5	4	M8 Hexagonal nut
6	2	M6x20 Hexagonal head screw
7	2	M6 Grower washer
8	2	M6 Hexagonal nut
9	1	Connector Protection Cap
10	1	Plastic clamping band
Dimensions:		90x85x6 mm; 3.5x3.3x2.6 in
Weight:		550 gr, 1.2 lb
Re-order code: P/N 2519913.00		





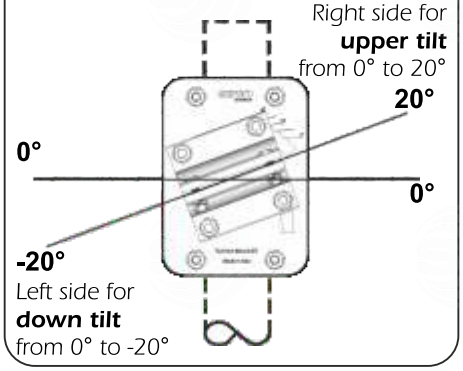


Optional Tilting Bracket



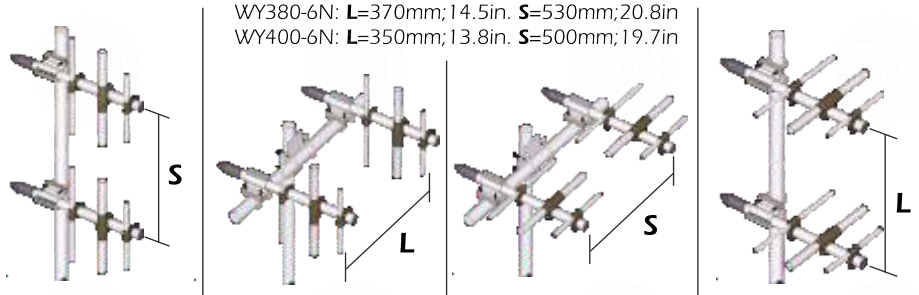
Order p/n: 2519803.00
Materials & Hardware: zinc plated steel
Dimensions: 115x155x6 mm; 4.5x6.1x0.2 in
Weight: 800 gr; 1.75 lb

Part list	
Q.ty	*Description*
1	115x155x6 Tilting bracket
4	M8x25 Spheric head screw
4	M8 Grower washer
4	M8 Hexagonal nut



Stacking and Baying distance

WY380-6N: **L**=370mm;14.5in. **S**=530mm;20.8in
WY400-6N: **L**=350mm;13.8in. **S**=500mm;19.7in



Vertical polarization (Stacked) | Vertical polarization (Bayed) | Horizontal polarization (Bayed) | Horizontal polarization (Stacked)

HI-QUALITY ANTENNAS MADE IN ITALY

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