WD 140-N V2 WD 155-N V2

VHF Base Station Dipole Antennas 140-175 MHz

MAIN FEATURES

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

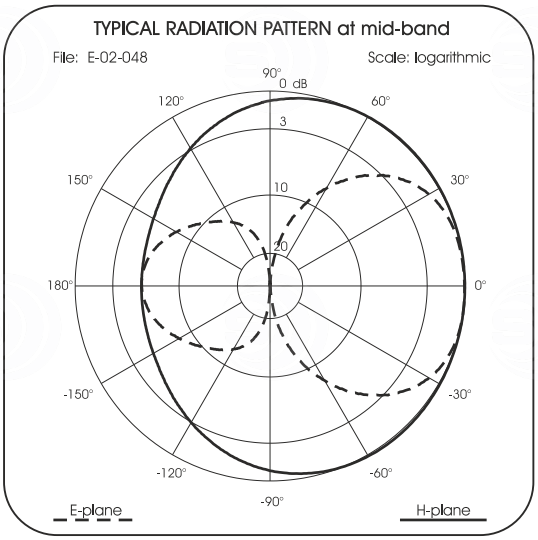
UP GRADED FEATURES

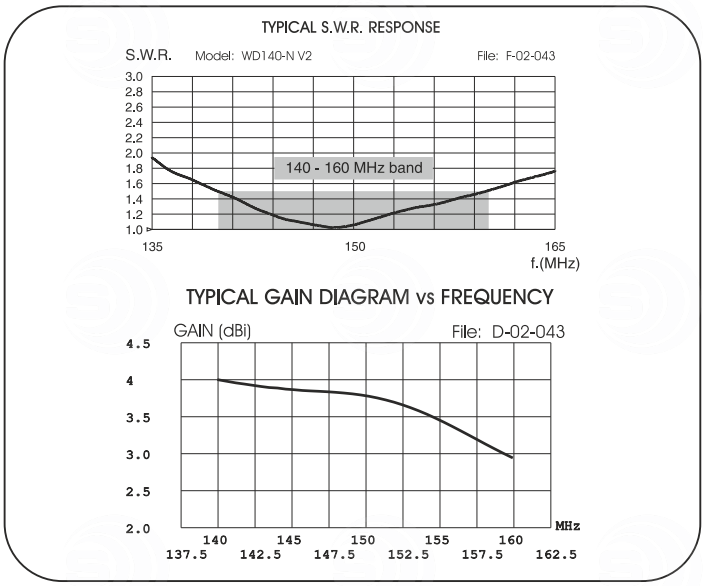
- Fully sealed, IP67 waterproof
- New internal design to maximize Power handling

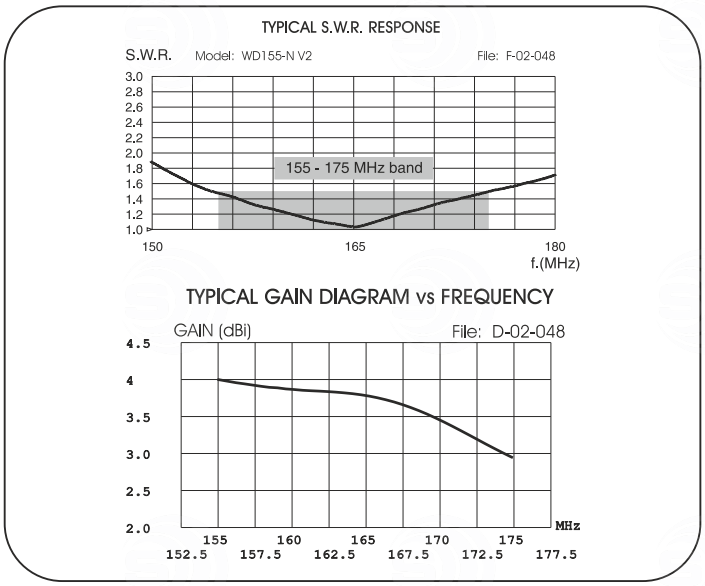


Electrical Data	WD 140-N	WD 155-N
Type	Half Wave Dipole	
Frequency Range @ SWR ≤ 1.5	140 - 160 MHz	155 - 175 MHz
Impedance	50 Ω	
Radiation (H-plane) beamwidth @ -3 dB	245° - HCM code = 065KA00	
Radiation (E-plane) beamwidth @ -3 dB	80° - HCM code = 040EA56	85° - HCM code = 043EA56
Front to back ratio	≥ 5 dB	
Polarization	Linear Vertical	
Gain	1.85 dBd - 4 dBi	
Max Power (CW) @ 30°C	250 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	77 N	
Wind Resistance	200 Km/h; 124 mi/h	
Wind Surface	0.06 m^2; 0.64 ft^2	
Dimensions W x H (approx.)	730 x 915 mm; 2.4 x 3.0 ft	730 x 835 mm; 2.4 x 2.7 ft
Ingress Protection	IP 67	
Turning radius (approx.)	600 mm; 2 ft	
Weight (approx.)	1390 gr; 3 lb	
Operating temperature	-40° C to +60° C	
Mounting Mast	∅ 35 - 60 mm; 1.4 - 2.4 in	
Boom Diameter / Dipole Diameter	∅ 32 mm; 1.25 in / ∅ 24 mm; 0.95 in	





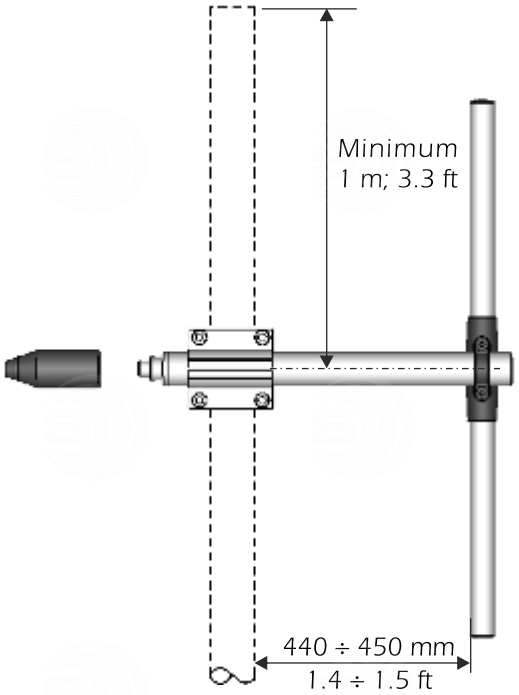


SIRIO antenne

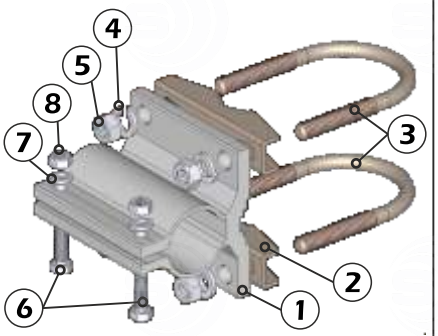
HI-QUALITY ANTENNAS MADE IN ITALY

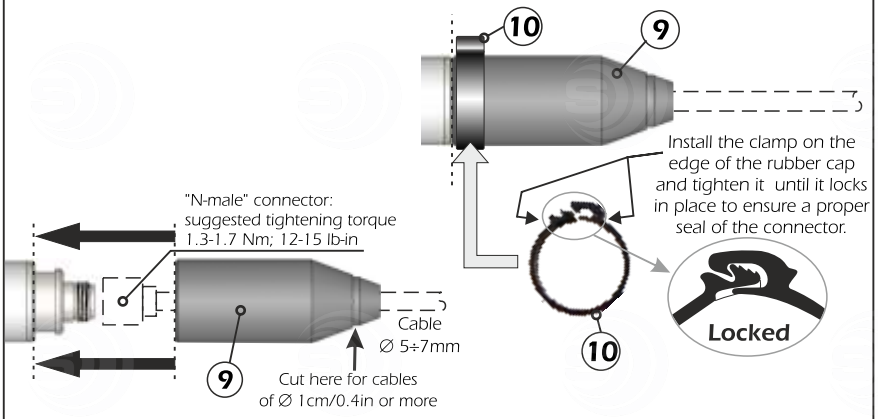
MOUNTING INSTRUCTIONS

Correct mounting for vertical polarization

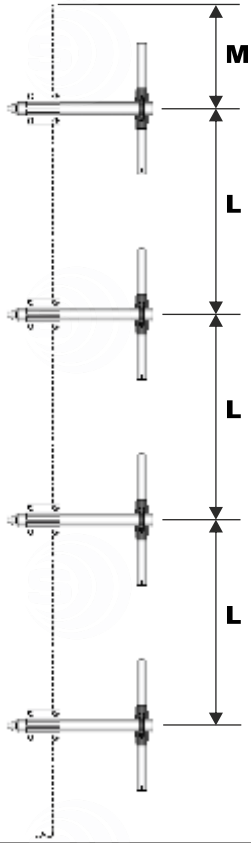


FT-6 Bracket Part list		
Pos	*Q.ty*	*Description*
1	1	Extruded aluminium bracket
2	2	Steel bracket
3	2	M8x216 U-bolt
4	4	M8 Grower washer
5	4	M8 Hexagonal nut
6	2	M6x20 Hexagonal head screw
7	2	M6 Grower washer
8	2	M6 Hexagonal nut
9	1	Connector Protection Cap
10	1	Plastic clamping band
Dimensions:	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





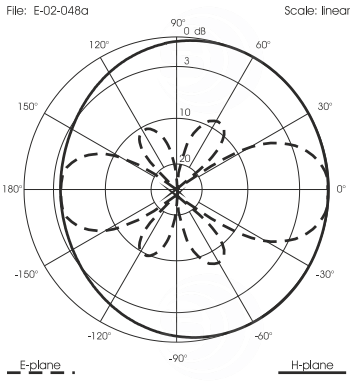
Side mast mounting for DIRECTIONAL pattern: Stacking distance



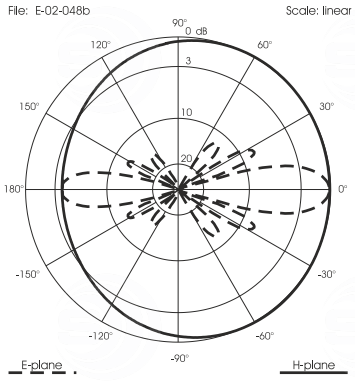
Vertical polarization
(Stacked)
L= 1.6 m; 5.25 ft

No. of dipole	Max Gain (dBi)	HPBW E-plane	HPBW H-plane
2	7.3	32°	245°
4	10.2	16°	245°
6	12	10.5°	245°
8	13	8°	245°

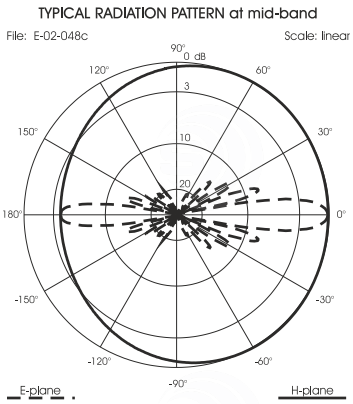
2 Dipole array



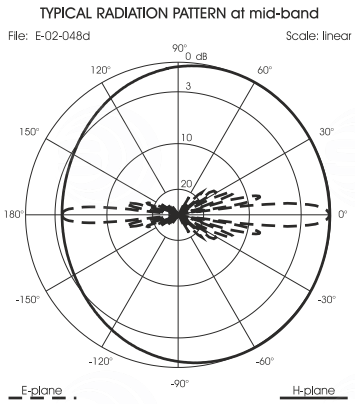
4 Dipole array



6 Dipole array



8 Dipole array



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