

NEW TORNADO 27

27...30MHz Tunable Base Station Antenna

DESCRIPTION

Base station antenna tunable from 27 to 30 MHz. It is made of anti-corodal aluminium tubes and supplied with jointing sleeves of polythene to guarantee a perfect waterproofing. Strong and easy to install, it allows very good links. The new improved ground plane and a simple tuning table make the tuning easier and quicker.

SPECIFICATIONS

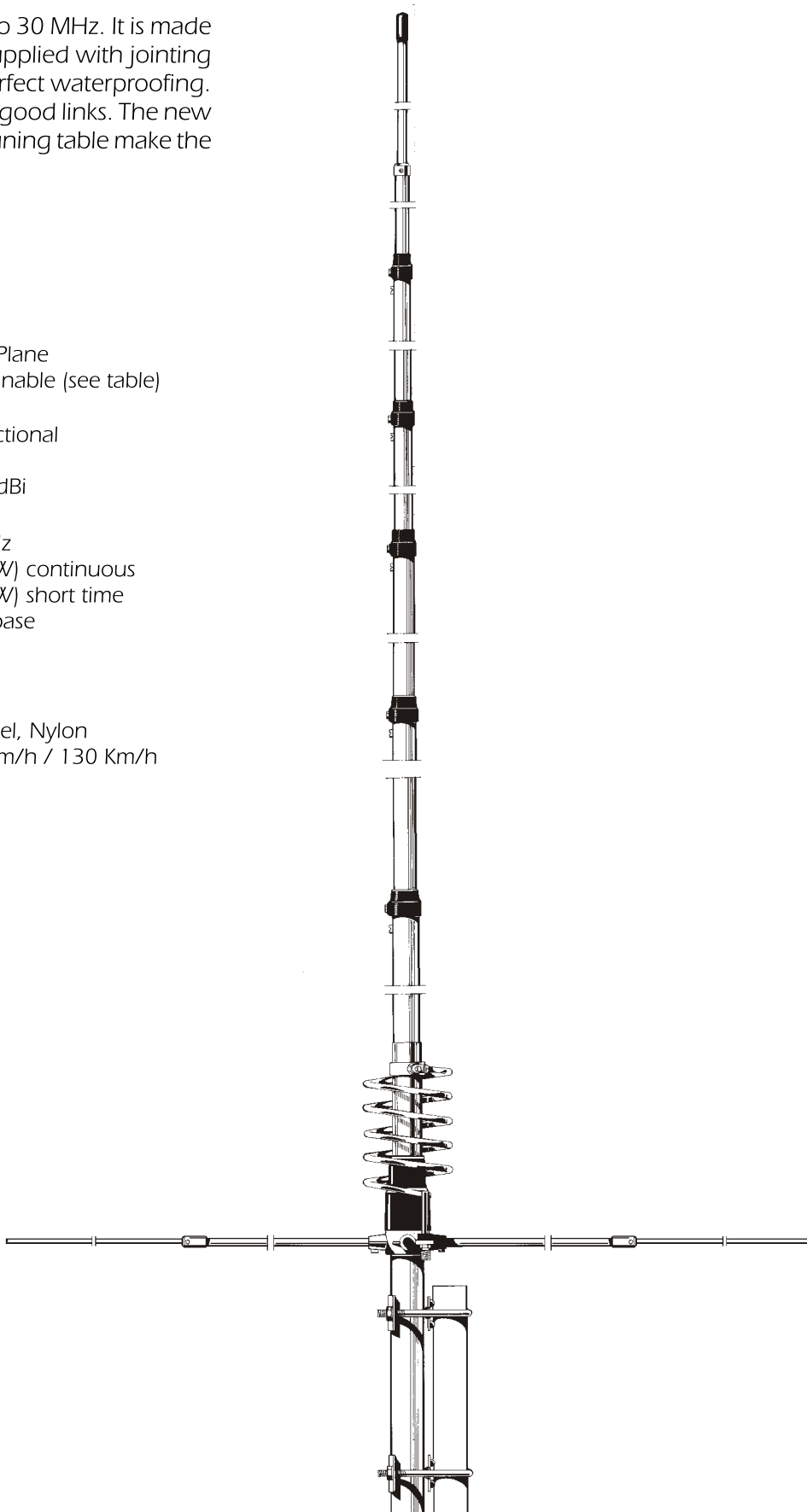
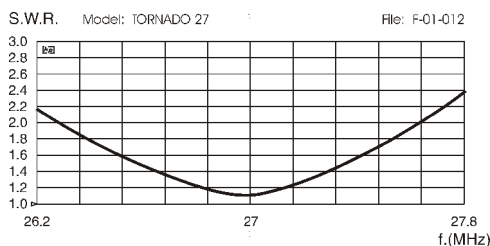
Electrical Data

Type	: $5/8 \lambda$ Ground Plane
Frequency range	: 27...30 MHz tunable (see table)
Impedance	: 50Ω
Radiation (H-plane)	: 360° omnidirectional
Polarization	: Linear Vertical
Gain	: 1.2 dBd, 3.35 dBi
Bandwidth @ $SWR \leq 2$: ≥ 1300 KHz
SWR @ res. freq.	: ≤ 1.2 @ 27 MHz
Max Power	: 1000 Watts (CW) continuous : 3000 Watts (CW) short time
Feed system / position	: Transformer / base
Connector	: UHF-female

Mechanical Data

Materials	: Aluminium, Steel, Nylon
Wind Load / Resistance	: 187 N @ 150Km/h / 130 Km/h
Wind surface	: 0.16 m^2
Length (approx.)	: 7230 mm
Weigth (approx.)	: 2900 gr
Mounting Mast	: $\varnothing 35\text{-}42 \text{ mm}$

TYPICAL S.W.R. RESPONSE



SIRIO
antenne

HI-QUALITY ANTENNAS MADE IN ITALY

TUNING TABLE	
Freq. (MHz)	L (mm)
27.0	1120
27.185	1060
27.5	955
28.0	780
(10m band) 28.5	610
29.0	460
29.5	300
30.0	165

NOTE: Use the table just as a guide. For fine-tuning please use an SWR-meter

Mounting needed tools:	
n. 1	tape rules (meter)
n. 1	phillips screwdriver
n. 1	10 mm open key

Parts List		
Pos	Q.ty	Description
1	1	5 sections telescopic aluminium whip
2	5	plastic jointing sleeves (5 different sizes)
3	10	Ø 3.9x12.7 phillips tapping screw
4	5	M4 washers
5	1	Ø 6x8x1170mm top section tube
6	5	M4x4 hexagon socket set screws cup point
7	1	2mm hexagonal key
8	1	PVC cap for Ø 8 mm aluminium tube
9	1	bottom section assembled with coil and connector
10	4	M6x6 hexagon socket set screws cup point
11	1	3mm hexagonal key
12	4	first radial section Ø 8mm aluminium tube
13	4	second radial section Ø 5mm aluminium bar
14	4	M6 hexagonal nut
15	4	M6 spring lock washer
16	4	M6 washer
17	2	steel V bracket
18	2	steel plane bracket
19	2	M6x240 mm U-bolt

1 PVC cap for Ø8mm alu tube

2 Ø6x8x1170mm top section tube

3 For L distance see tuning table

4 L-shaped bracket

5 Screws

6 Element mounting bracket

7 Element mounting bracket (side view)

