

TORNADO 27 5/8

CB Base Station Antenna

DESCRIPTION

5/8 antenna for base station working on 27 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.

REMARK Tornado 27 is an antenna that is influenced by the height from the ground plane where it's installed. Unfortunately it's difficult to give the correct instructions as the places where antennas could be installed are so different in sizes and types that's impossible to give the correct way to mount it. However we suggest to carefully verify the height of your installation pole in order to avoid too much influence of the ground plane to the antenna performance. Suggested length of final element for the 27 MHz is $L=1\ 120\ \text{mm}$ but we recommend to get the fine tuning by checking with your SWR-meter as the ground plane can highly influence the performance of your antenna.

SPECIFICATIONS

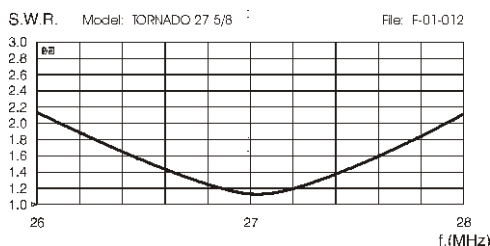
Electrical Data

Type	: 5/8 Ground Plane
Frequency range	: 26 - 28 MHz
Impedance	: 50
Radiation (H-plane)	: 360° omnidirectional
Polarization	: Linear Vertical
Gain	: 1.2 dBd, 3.35 dBi
Bandwidth @ SWR 2	: 2000 KHz (180 channel)
SWR @ res. freq.	: 1.2
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	: 35-42 mm

TYPICAL S.W.R. RESPONSE



SIRIO
antenne

HI-QUALITY ANTENNAS MADE IN ITALY

Parts List		
Pos	Q.ty	Description
1	1	5 sections telescopic aluminium whip
2	5	plastic jointing sleeves (5 different sizes)
3	10	3.9x12.7 phillips tapping screws
4	5	M4 washers
5	5	6x8x1170mm aluminium tubes
6	5	M4x4 hexagon socket set screws cup point
7	1	2mm hexagonal key
8	5	PVC cap for 8 mm aluminium tubes
9	1	bottom section assembled with coil and connector
10	4	M6 hexagonal nuts
11	4	M6 spring lock washers
12	4	M6 washers
13	2	steel V brackets
14	2	steel plane brackets
15	2	M6x240 mm U-bolt

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

MOUNTING INSTRUCTIONS

1

L=1120mm

Pull out the sections of telescopic aluminium whip (1), insert the jointing sleeves on the tubes (2) and lock them using the screws (3) and washers (4). Insert one of aluminium tube (5) at **L=1120mm** and lock it using the screw (6) and 2 mm hexagonal key (7). Insert the PVC cap (8).

NOTE: the L=1120 mm is just the initial position. For fine-tuning please use an SWR-meter

2

Insert the PVC cap (8) on the aluminium tube (5) then insert the tubes in the bottom section (9) and lock them using the screws (6) and 2mm hexagonal key (7).

3

Mount the antenna on the mast using parts (10) (11) (12) (13) (14) and (15) in accordance to the picture.

Mast 35-42mm (not supplied)