

# 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  $L=1120$  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

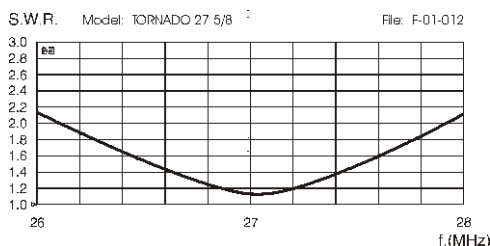
#### Electrical Data

|                        |                                                              |
|------------------------|--------------------------------------------------------------|
| 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<br>: 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 <sup>2</sup>        |
| Length (approx.)       | : 7230 mm                    |
| Weigth (approx.)       | : 2900 gr                    |
| Mounting Mast          | : 35-42 mm                   |

TYPICAL S.W.R. RESPONSE



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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

