

GPE 27 5/8

GPS 27 1/2

26.4...29 MHz Tunable Base Station Antennas

DESCRIPTION

Base station antennas tunable from 26.4 to 29 MHz and 10m band. They are made of anti-corodal aluminium tubes and supplied with polythene jointing sleeves to guarantee a perfect waterproofing. Strong and easy to install, they allow very good links.

SPECIFICATIONS

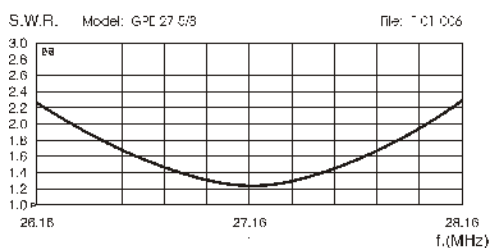
Electrical Data

Type	: GPE 27 5/8	5/8 λ Ground Plane
	: GPS 27 1/2	1/2 λ
Frequency range	: 26.4...29.0 MHz	tunable (see table)
Impedance	: 50 Ω	
Radiation (H-plane)	: 360°	omnidirectional
Polarization	: Linear	Vertical
Gain	: GPE 27 5/8	1.2 dBd, 3.35 dBi
	: GPS 27 1/2	0 dBd, 2.15 dBi
Bandwidth @ SWR ≤ 2	: ≥ 1600 KHz	
SWR @ res. freq.	: ≤ 1.3	
Max Power	: 250 Watts (CW)	continuous
	: 750 Watts (CW)	short time
Feed system/ position	: Transformer	DC-ground / base
Connector	: UHF-female	

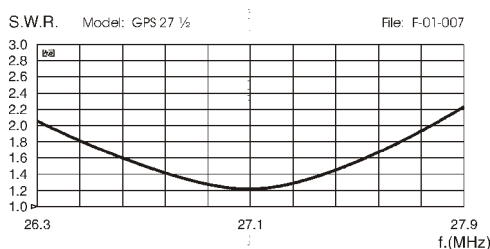
Mechanical Data

Materials	: Aluminium, Steel, Copper, Nylon
Wind Load/Resistance	: 160 N @ 150Km/h / 130 Km/h
Wind surface	: 0.12 m ²
Length (approx.)	: 5950 mm both models
Weight (approx.)	: GPE 27 5/8 2500 gr
	: GPS 27 1/2 2100 gr
Radial lenght	: 1320 mm (GPE 27 5/8 only)
Mounting Mast	: Ø 35-42 mm

TYPICAL S.W.R. RESPONSE



TYPICAL S.W.R. RESPONSE



GPE 27 5/8 Coil



GPS 27 1/2 Coil



GPE 27 5/8

GPS 27 1/2



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ID037

TUNING TABLE

Freq. (MHz)	GPE 27 5/8 L (mm)	GPS 27 1/2 L (mm)
26.4	850	900
27.0	642	745
27.185	600	660
27.5	487	562
28.0	340	395
(10 m band) 28.5	183	228
29.0	15	60

Mounting needed tools:

- n. 1 tape rules (meter)
- n. 1 phillips screwdriver
- n. 1 10 mm open key
- n. 1 19 mm open key

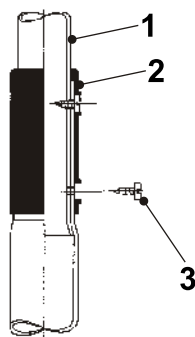
Additional tools for GPE 27 5/8:

- n.1 flat screwdriver
- n.1 8 mm open key

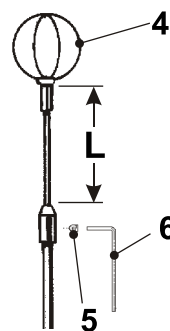
Parts List

Pos	Q.ty	Description
1	1	5 sections telescopic aluminium whip with coil
2	4	plastic jointing sleeves (4 different sizes)
3	8	Ø 3.9x6.5 phillips tapping screws
4	1	top section with cage
5	1	M4x4 hexagon socket set screw cup point
6	1	2mm hexagonal key
7	1	Rubber washer
8	1	M16 spring lock washer
9	1	19mm hexagonal nut
10	1	steel bracket
11	4	M6 washers
12	4	M6 spring lock washers
13	4	M6 hexagonal nuts
14	2	M6x160mm U-bolt
GPE 27 5/8 additional parts:		
15	3	Ø 6x8x1320mm aluminium tubes
16	1	Metal Plate
17	3	M5x25 screws
18	3	M5 washers
19	3	M5 hexagonal nuts
20	3	PVC cap for Ø 8mm aluminium tube

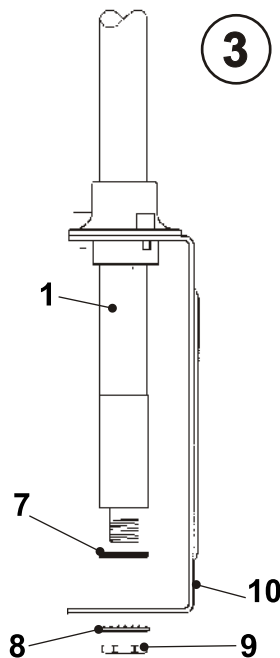
MOUNTING INSTRUCTIONS



1
Pull out the sections of telescopic aluminium whip (1), insert the jointing sleeve on the tubes (2) and lock them using the phillips screws (3).

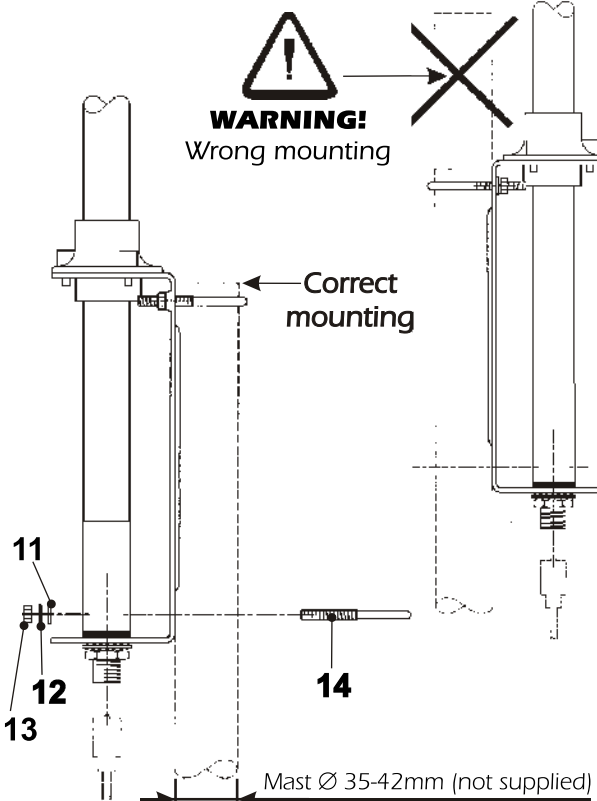


2
Insert the top section with the cage (4) at L (see tuning table for frequency) and lock it using the screw (5) and 2mm hexagonal key (6).
NOTE: Use the table just as a guide. For fine-tuning please use an SWR-meter

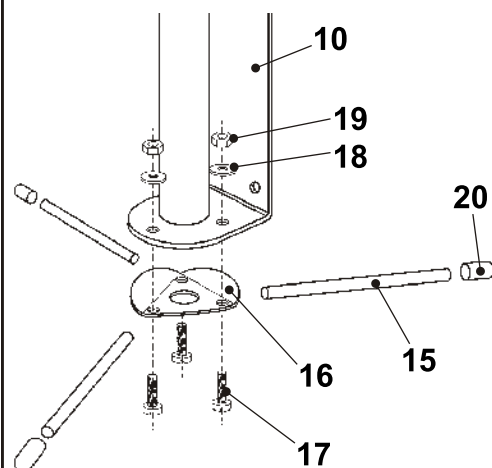


3
Mount the antenna on the mast using parts (11) (12) (13) (14) in according to the picture.

Fit the rubber washer (7) on the bottom of antenna (1). Well lock washer (8) and nut (9) to the steel bracket (10) by using the suitable 19mm key.



Radials mounting GPE 27 5/8 ONLY



5
Place the aluminium radials (15) between the steel bracket (10) and the metal plate (16) in according to the picture and lock them by using the supplied screws (17) washer (18) and nut (19). Finally mount the PVC cap (20).



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