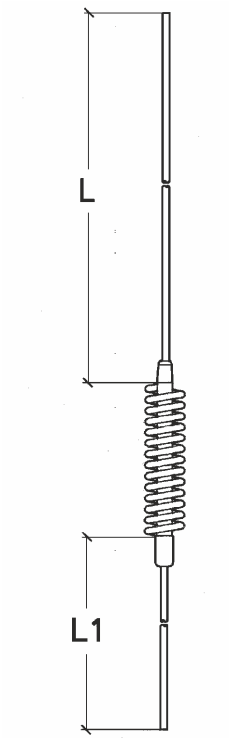
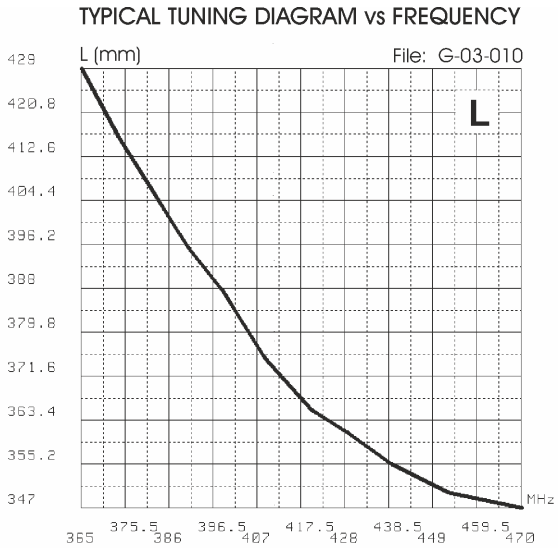
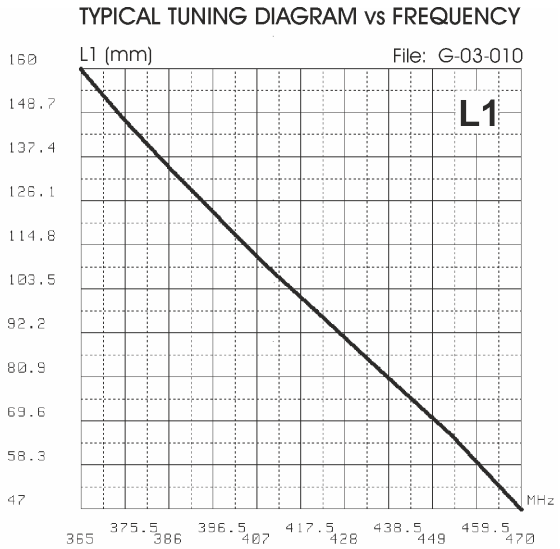
TYPICAL TUNING DIAGRAMS







NOTE:

- *Use the curves just as a guide. For fine-tuning please use an SWR-Meter.*

SIRIO antenne® HI-QUALITY ANTENNAS MADE IN ITALY

GP 365-470 C

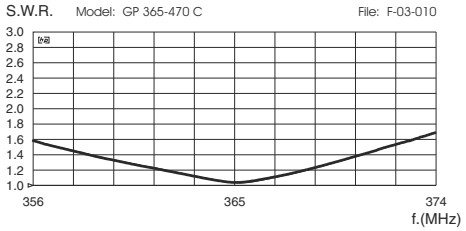
UHF Base Station Antenna 365-470 MHz

Installation Manual

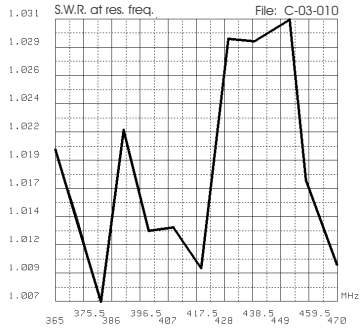
SPECIFICATIONS

Electrical Data	
Type	1/4 λ + 1/2 λ Colinear
Frequency Range	from 365 to 470 MHz tunable by cutting
Impedance	50 Ω
Radiation (H-plane)	360° Omnidirectional - HCM code = 000ND00
Radiation (E-plane)	Beamwidth @ -3dB = 53° - HCM code =030ND00
Radiation angle deg.	0°
Polarization	Linear Vertical
Gain	2.5 dBd - 4.65 dBi
SWR @ res. freq.	≤ 1.2 (see diagram)
Bandwidth @ SWR ≤ 1.5	≥ 15 MHz @ 365 MHz (see diagram)
Max Power (CW) @ 30°C	150 Watts
Connector	N-female, gold plated central pin
Mechanical Data	
Materials	Aluminium, Brass, Stainless Steel
Wind Load @ 150 km/h	18 N
Wind Resistance	180 Km/h, 112 mi/h
Wind Surface	0.02 m^2, 0.21 ft^2
Height (approx.)	990 mm, 3.3 ft
Weight (approx.)	730 gr, 1.6 lb
Radial Length (approx.)	200 mm, 0.66 ft
Mounting Mast	∅ 35-60 mm, ∅ 1.4-2.4 in

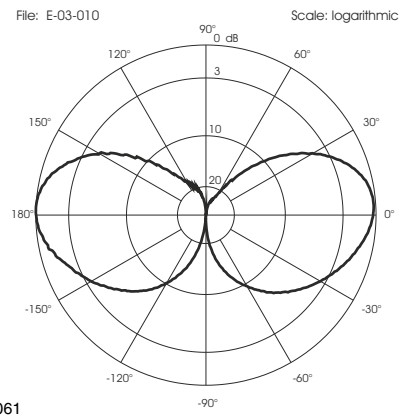
TYPICAL S.W.R. RESPONSE



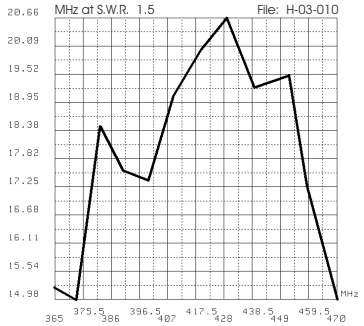
TYPICAL MATCHING DIAGRAM vs FREQUENCY



TYPICAL RADIATION PATTERN in E-plane at 435 MHz



TYPICAL BANDWIDTH DIAGRAM vs FREQUENCY



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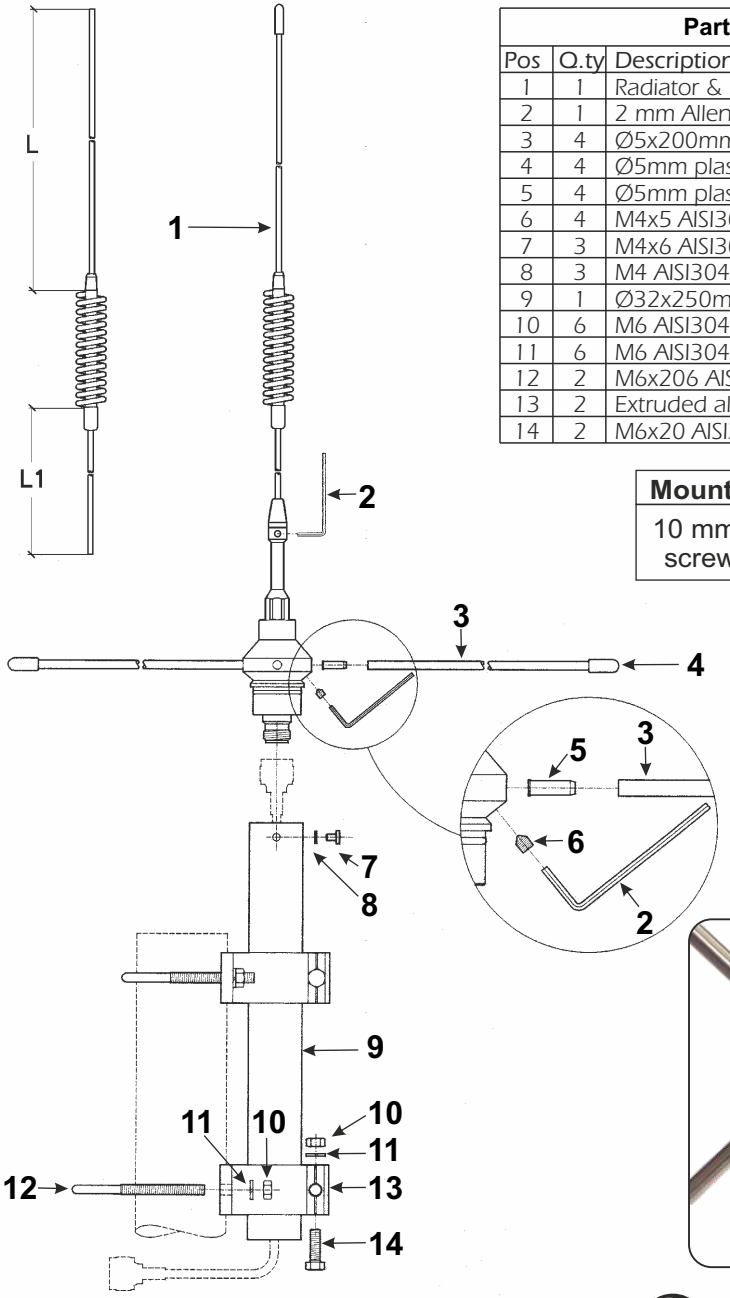
MOUNTING INSTRUCTIONS



Parts List		
Pos	Q.ty	Description
1	1	Radiator & base with N connector
2	1	2 mm Allen key
3	4	Ø5x200mm AISI304 radials
4	4	Ø5mm plastic cap
5	4	Ø5mm plastic pins
6	4	M4x5 AISI304 screws cone point
7	3	M4x6 AISI304 screw
8	3	M4 AISI304 washer
9	1	Ø32x250mm Anodized alum.tube
10	6	M6 AISI304 nut
11	6	M6 AISI304 washer
12	2	M6x206 AISI304 V-bolt
13	2	Extruded aluminium bracket
14	2	M6x20 AISI304 exa. head screws

Mounting needed tools:

10 mm open key (pos.10)
screw driver cross point

Bottom view
N-female connector

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