## DESCRIPTION

UHF colinear antennas for mobile service covering the full band of 368-490 MHz by cutting. The spring radiator is available in 17/7 PH stainless steel or black chromed with a nylon reinforce to get the maximun strength and flexibility. They can be supplied with "SL" mount for hole installation or magnetic mount for temporary fitting.

## SPECIFICATIONS

**Electrical Data**

| | |
|---|---|
| Type | : 1/4 + 1/2 colinear |
| Frequency Range | : from 368 to 490 MHz tunable by cutting |
| Impedance | : 50 Unbalanced |
| Radiation | : Omnidirectional |
| Polarization | : Vertical |
| Gain | : 3.5 dB ref. to a /4 whip |
| Bandwidth @ SWR 1.5 | : 20 MHz @ 368 MHz |
| SWR @ res. freq. | : 1.2 |
| Max Power | : 100 Watts |
| Feed System / Position | : Direct / Base |
| Standard Mount | : "SL" UHF, mounting hole 19 mm, cable 5m RG 58 |
| Alternative Mount | : MAG H 12 S magnetic mount, cable 3.6m RG 58 w/ PL259-m |

**Mechanical Data**

| | |
|---|---|
| Materials | : Stainless Steel, Nylon,Chromed Brass |
| Height (approx.) | : 745 mm |
| Weight (approx.) | : 420 gr |

## MOUNTING INSTRUCTIONS



"**SL**" Mount

**A**

Ø 19
3/4"

39 mm

1"-1/2
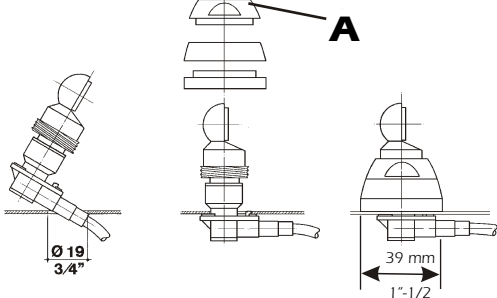
**REMARK:**
Be careful during installation do not use too much strenght but tighten the metal ring **A** by means of the suitable tool. **TIGHTENING TORQUE: 4 Nm ± 10%**
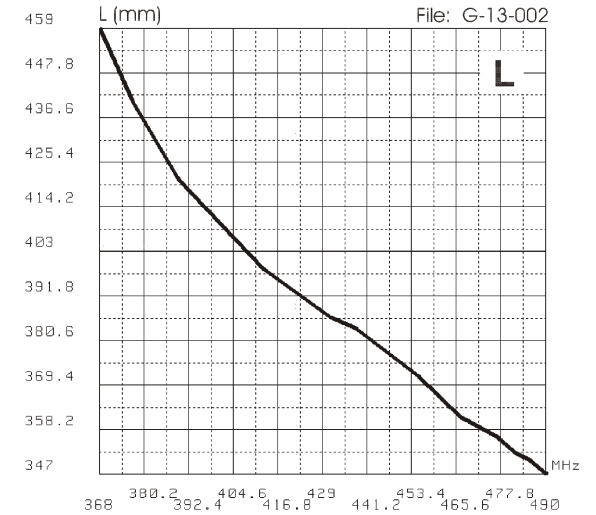
**ATTENZIONE:**
Porre attenzione durante l'installazione. Non serrare con troppa forza ma avvitare l'anello metallico **A** utilizzando la chiave adeguata. **COPPIA DI SERRAGGIO: 4 Nm ± 10%**
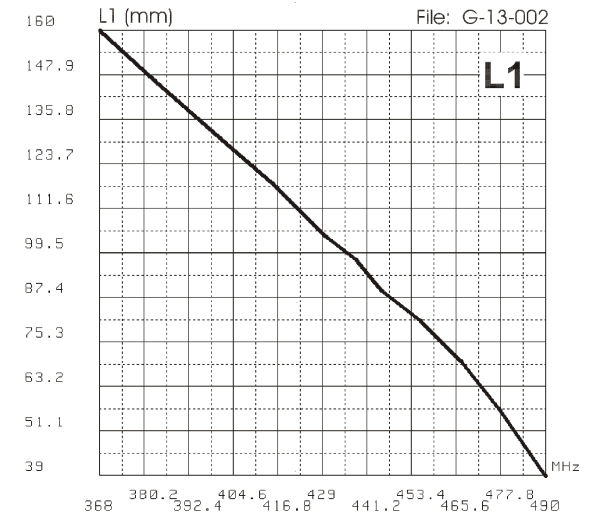
## TYPICAL TUNING DIAGRAMS

**ATTENTION:** cutting diagram valid **only** for **SL mount**
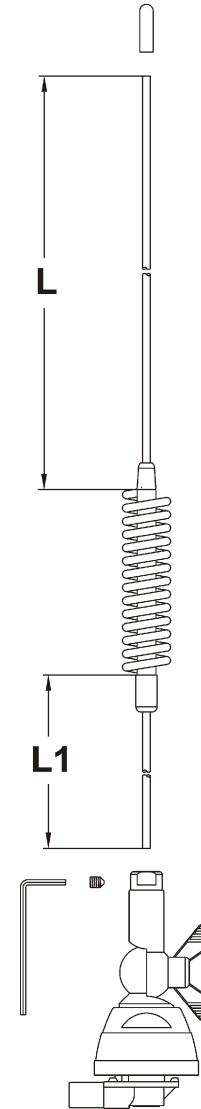


TYPICAL TUNING DIAGRAM vs FREQUENCY
File: G-13-002
L (mm)
**L**

TYPICAL TUNING DIAGRAM vs FREQUENCY
File: G-13-002
L1 (mm)
**L1**

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

HI-QUALITY ANTENNAS MADE IN ITALY

**SIRIO**
antenne

## TYPICAL TUNING DIAGRAMS

**ATTENTION:** cutting diagram valid **only** for **MAG H 12 mount**
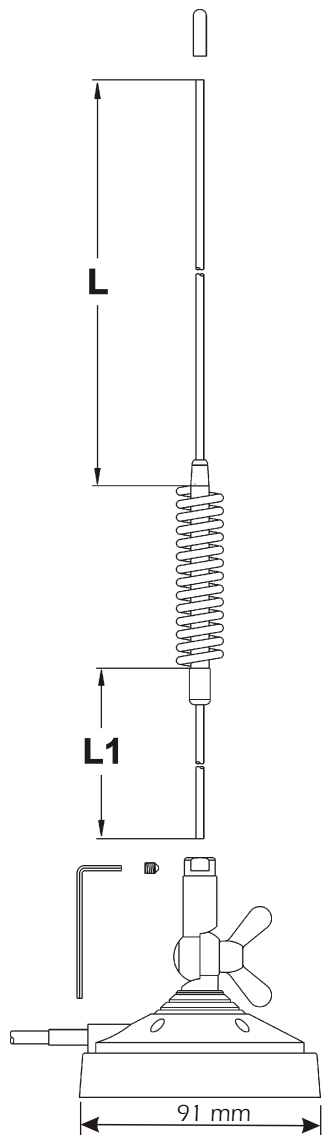


TYPICAL TUNING DIAGRAM vs FREQUENCY
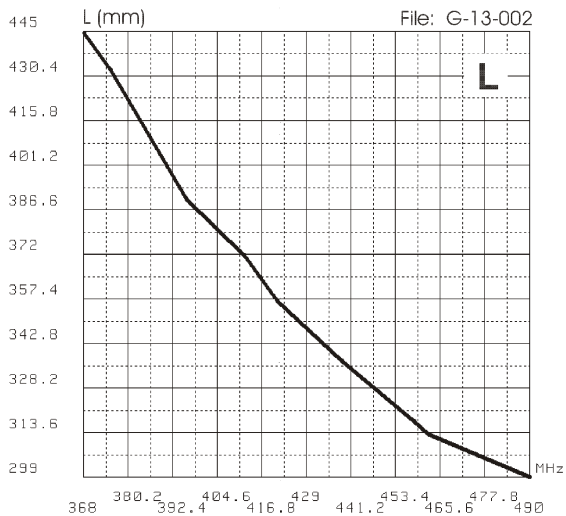
L (mm)    File: G-13-002

**L**

445
430.4
415.8
401.2
386.6
372
357.4
342.8
328.2
313.6
299

MHz
368  380.2  392.4  404.6  416.8  429  441.2  453.4  465.6  477.8  490

TYPICAL TUNING DIAGRAM vs FREQUENCY

L1 (mm)    File: G-13-002

**L1**

147
137.2
127.4
117.6
107.8
98
88.2
78.4
68.6
58.8
49

MHz
368  380.2  392.4  404.6  416.8  429  441.2  453.4  465.6  477.8  490

91 mm

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

## SU 370-490
### UHF Mobile Antenna 368-490 MHz



**SU 370-490**        **SU 370-490 Black**

# Installation Manual
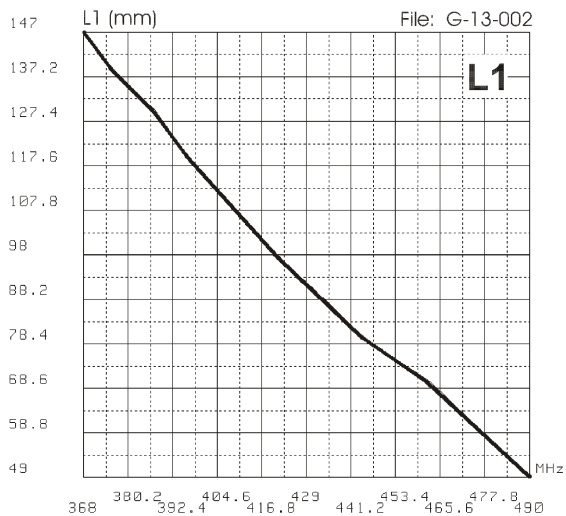
### SIRIO antenne
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