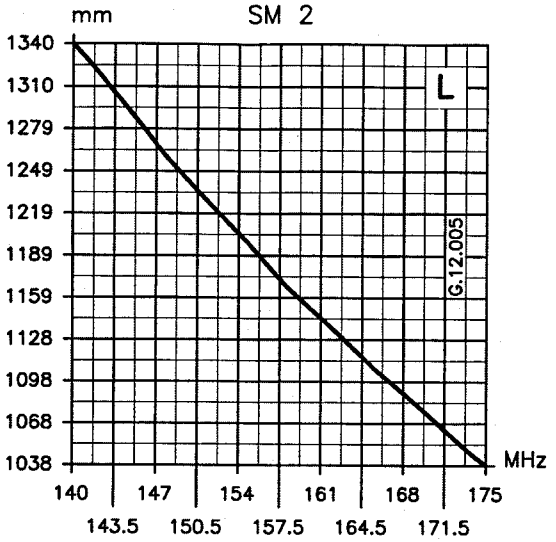
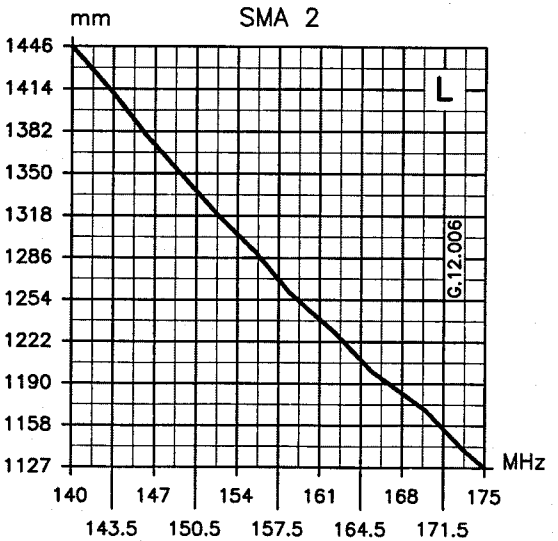
TYPICAL TUNING DIAGRAM



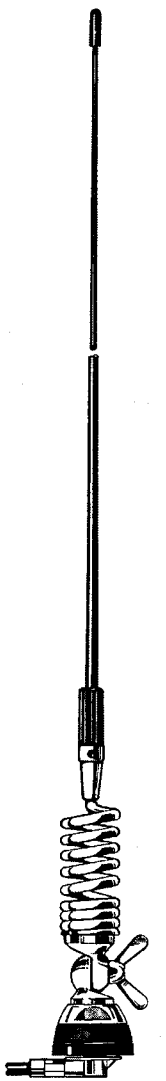


NOTE:

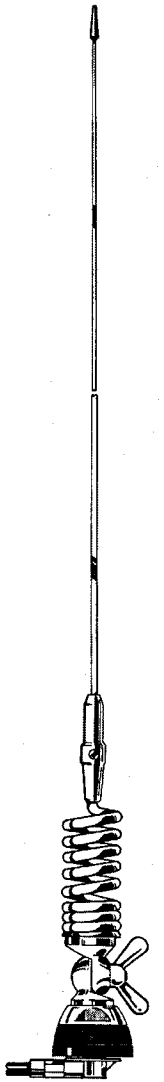
- **L** is the height from the ground plane.
- It is recommended to use the curves as a guide and fine-tune using an SWR-Meter.

Model SM 2 / SMA 2

VHF Mobile Antenna 140 - 175 MHz



SM 2



SMA 2

Installation Manual

DESCRIPTION

5/8 λ vehicular antennas working on 140-175 MHz by means of the enclosed cutting diagram. Two versions are available: SM 2 made of conic black painted glass fibre whip and SMA 2 of conic 17/7 PH stainless steel whip of high flexibility. Both models are supplied with a strong stainless steel spring and they can be assembled on "S" or "SL" mount on request.

SPECIFICATIONS

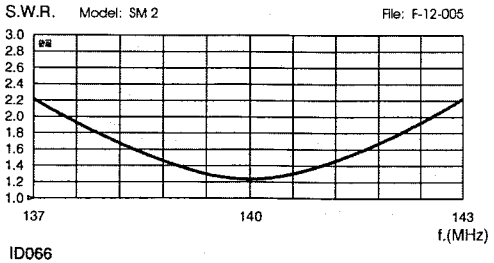
Electrical Data

Type	:	5/8 λ Mobile Antenna
Frequency Range	:	140-175 MHz tunable by cutting
Impedance	:	50 Ω Unbalanced
Radiation	:	Omnidirectional
Polarization	:	Vertical
Gain	:	1.5 dB ref. to a λ/4 whip
Bandwidth at S.W.R. 2:1:		
SM 2	:	5.3 MHz at 140 MHz
SMA 2	:	6.5 MHz at 140 MHz
S.W.R. at f. res.:		
SM 2	:	≤ 1.3 : 1 at 140 MHz
SMA 2	:	≤ 1.2 : 1 at 140 MHz
Max Power	:	100 Watts
Feed System / Position	:	Transformer / Base
Standard Mount	:	"S" VHF
Cable Length / Type	:	5 m / RG 58

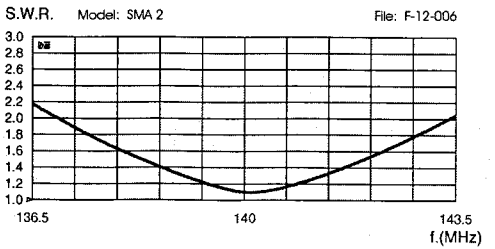
Mechanical Data

Materials:		
SM 2	:	Glass Fibre, Chromed Brass, Nylon
SMA 2	:	Stainless Steel 17/7 PH, Chromed Brass, Nylon
Height (approx.):		
SM 2	:	1345 mm
SMA 2	:	1440 mm
Weight (approx.)	:	515 gr
Mounting Hole	:	Ø 19 mm

TYPICAL S.W.R. RESPONSE



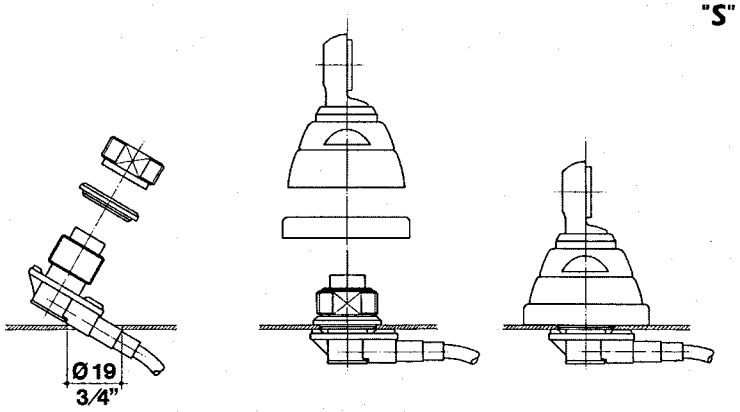
TYPICAL S.W.R. RESPONSE



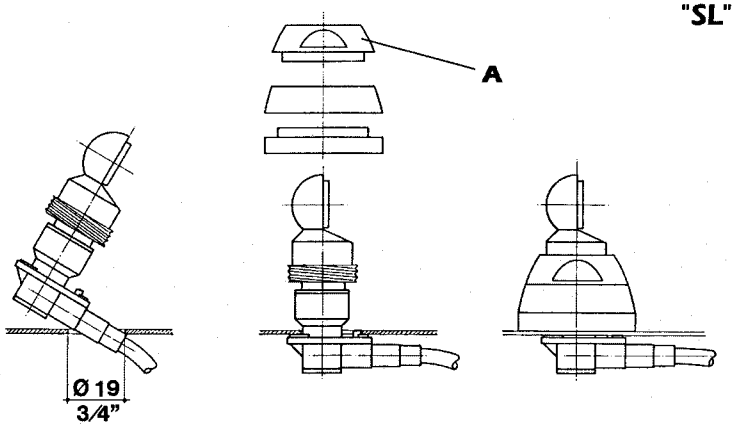
ID066

MOUNTING INSTRUCTIONS

"**S**" Mount



"**SL**" Mount



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%**

SIRIO antenne HI-QUALITY ANTENNAS MADE IN ITALY