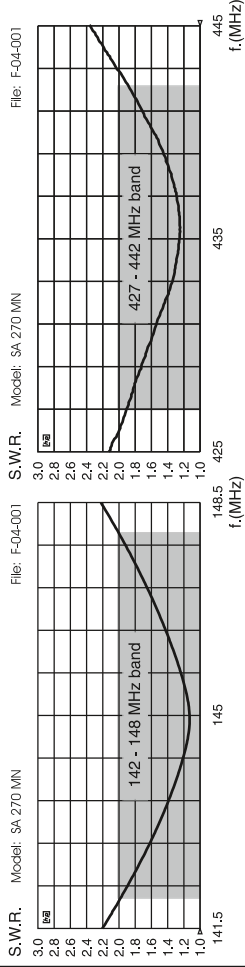
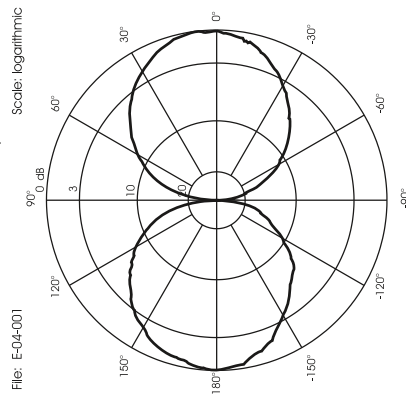


# SA 270 MN

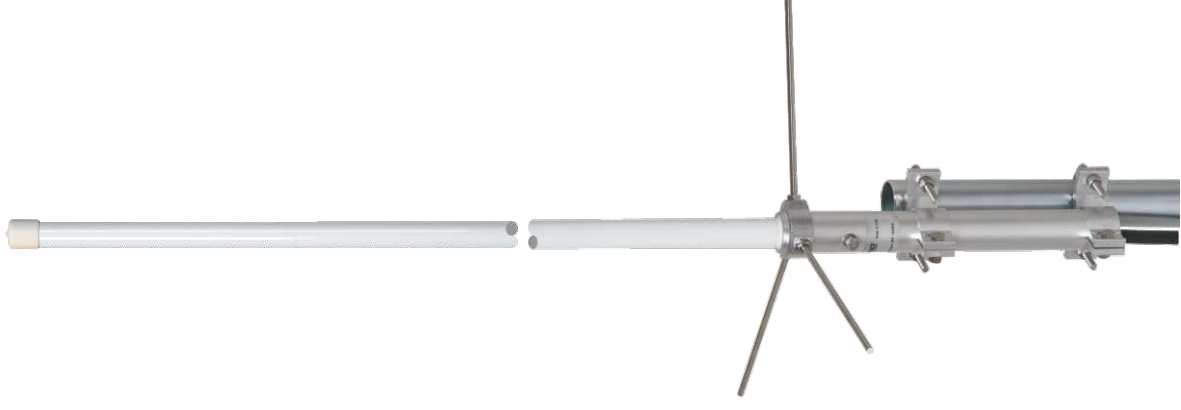
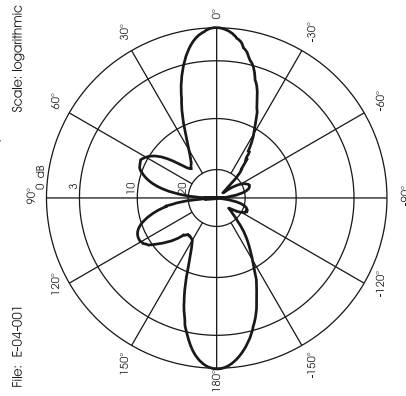
Fiberglass Hi-Gain Dual Band Antenna for 2m & 70cm bands



TYPICAL RADIATION PATTERN in E-plane at 145 MHz



TYPICAL RADIATION PATTERN in E-plane at 435 MHz



## DESCRIPTION

Ground Plane colinear antenna for base station service working on the radio-amateur frequency of 2m & 70cm. The whip is of brass inserted in a fiberglass tube for a perfect protection from the worst climates and its radials and hardware are of stainless steel to get the maximum strength. It is supplied with a solid aluminium bracket for an easy and safe installation to the support mast.

## SPECIFICATIONS

### Electrical Data

- Type : VHF 6/8 λ; UHF 3 x 5/8 λ. Colinear
- Frequency Range @ SWR ≤ 2 : VHF 142-148 MHz; UHF 427 - 442 MHz
- Impedance : 50 Ω
- Radiation (H-plane) : 360° Omnidirectional
- Radiation (E-plane) : Beamwidth @ -3 dB = VHF 61°; UHF 30°
- Radiation angle deg : VHF 0°; UHF 0°
- Polarization : Linear Vertical
- Gain : VHF 2 dBd - 4.15 dBi; UHF 4.2 dBd - 6.35 dBi
- Max Power : 200 Watts
- Grounding Protection : All metal parts are DC-grounded, the inner conductor is coupled capacitively
- Connector : N-female, Gold Plated central pin

### Mechanical Data

- Materials : Fiberglass, Stainless Steel, Chromed Brass, Aluminium
- Wind Load / Resistance : 55 N @ 150 Km/h / 180 km/h
- Wind Surface : 0.05 m<sup>2</sup>
- Height (approx.) : 1720 mm
- Weight (approx.) : 1030 gr
- Radial Length (approx.) : 170 mm
- Mounting Mast : Ø 35-54 mm

## MOUNTING INSTRUCTIONS

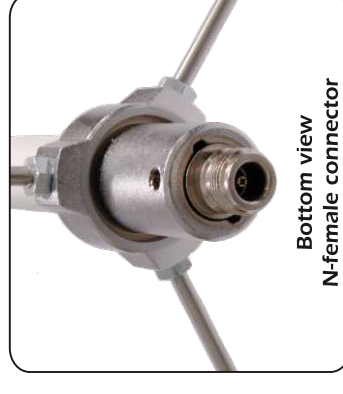
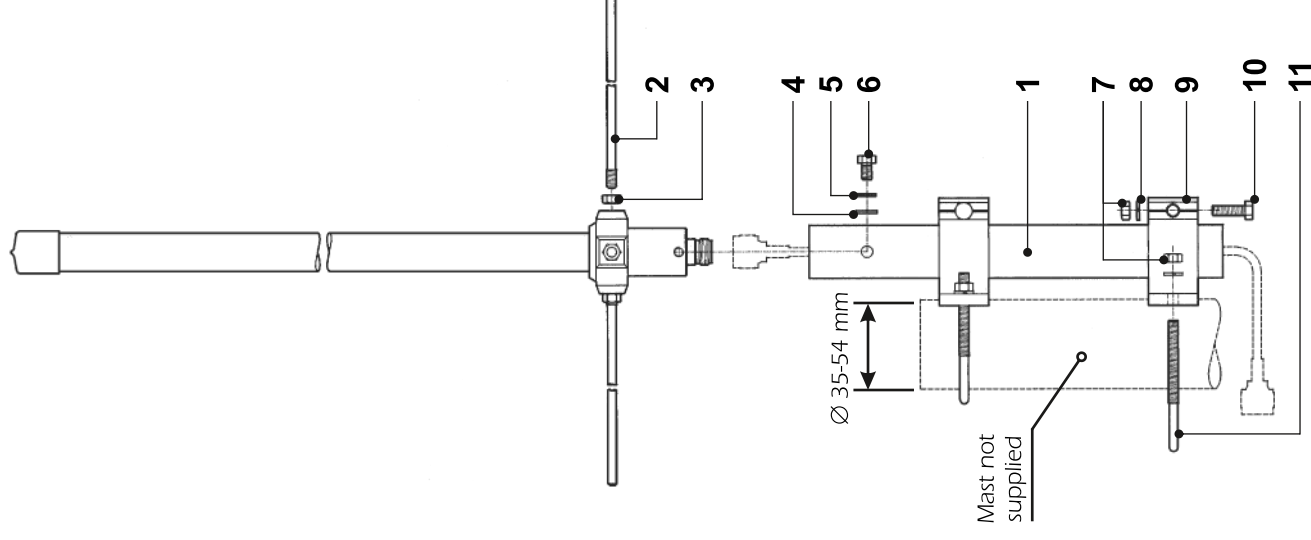
Part list	
Pos	Description
1	Ø 29x32x250mm alu. tube
2	170mm Stainless steel radials

Antenna Fixing Part list	
Re-order code: SA038	
Pos	Description
3	M6 Hexagonal nut
4	M6 washer
5	M6 Spring lock washer
6	M6x10 Hexagonal head screw

Fixing Bracket Part list	
Re-order code: SA104	
Pos	Description
7	M6 Hexagonal nut
8	M6 Spring lock washer
9	Extruded aluminium bracket
10	M6x20 Hexagonal head screw
11	M6x188 V-bolt

### Mounting needed tools:

10 mm open key



Bottom view  
N-female connector