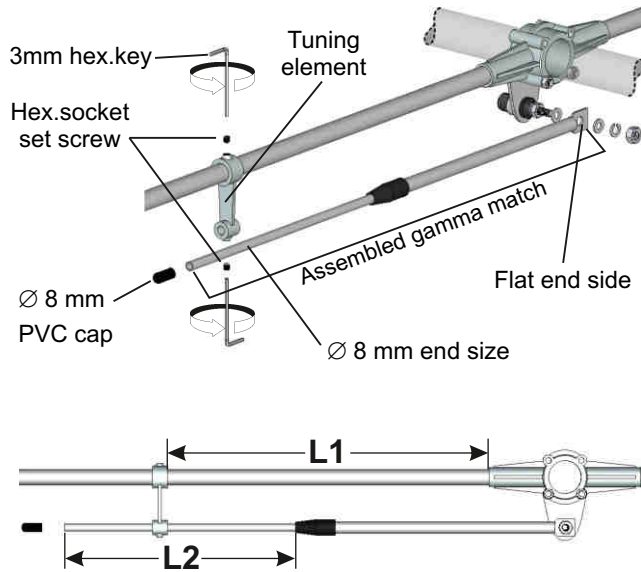


Gamma Match Mounting

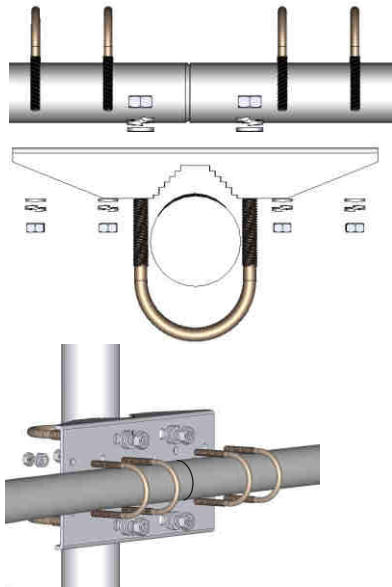
- 1) Fix without locking the flat end of the gamma-match by using the supplied nut and washer.
- 2) Insert the opposite side ($\varnothing 8$) of gamma match in the tuning element and fix it at L1 by means of the enclosed hardware.
- 3) Check that the last part of your gamma match ($\varnothing 8$ mm) is correctly positioned at L2 and fix it with hardware.
- 4) Lock the nut on the flat end of the gamma match and mount the PVC cap.



Hardware parts list	
Q.ty	Description
2	M6x6 Hexagon socket set screw
1	3mm Hexagonal Key
1	$\varnothing 8$ mm PVC cap
2	M6 Flat washer
1	M6 Grower washer
1	M6 Hexagonal nut
1	Tuning element

Re-order code: SA090

SD/SY Mounting bracket



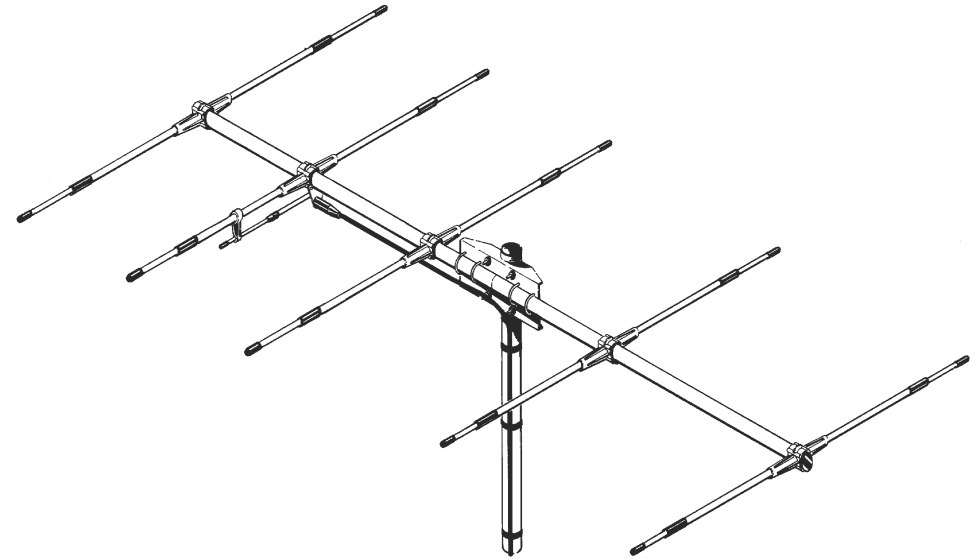
SD/SY bracket parts list	
Q.ty	Description
1	SD/SY Steel bracket
2	M8x200 U-bolt
4	M8 Hexagonal nut
4	M8 Grower washer
4	M8 Flat wascher
4	M6x125 U-bolt
8	M6 Hexagonal nut
8	M6 Grower washer
8	M6 Flat wascher

Materials: Zinc Plated Steel
 Weigth: 865 gr

Re-order code: SA088

SY 50-5

50 ... 54 MHz Tunable 5 Elements Yagi Antenna



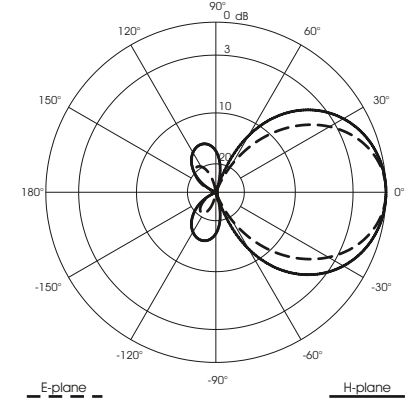
Electrical Data

Type	0.66 λ 5 Elements Yagi Antenna
Frequency Range	50 ... 54 MHz tunable (see table)
Impedance	50 Ω
Radiation (H-plane)	beamwidth @ -3 dB = 72°
Radiation (E-plane)	beamwidth @ -3 dB = 54°
Polarization	Linear Horizontal
Front to Back ratio	25 dB typical
Gain	8.4 dBd - 10.5 dBi
Bandwidth @ SWR \leq 1.5	\geq 1.4 MHz @ 50.5 MHz
SWR @ res. freq.	\leq 1.2
Max Power	600 Watts (CW) @ 30°C
Connector	UHF-female

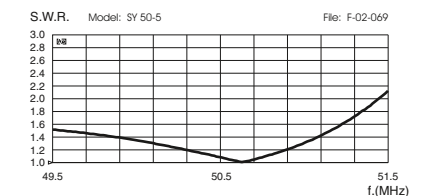
Mechanical Data

Materials	Aluminium, EPDM rubber, Zamak, Zinc plated steel, Chromed brass
Wind Load / Resistance	188 N @ 150 Km/h / 120 Km/h
Wind surface	0.15 m ²
Dimensions (approx.)	3038 x 4030 x 100 mm
Boom Length/Diameter	4030 mm / \varnothing 33 mm
Max. element length	3038 mm
Element diameter	\varnothing 12-16 mm
Turning radius	2700 mm
Weight (approx.)	6100 gr
Mounting mast	\varnothing 35-50 mm side mast with "U" bolt

TYPICAL RADIATION PATTERN at 50.5 MHz
 File: E-02-069 Scale: logarithmic



TYPICAL S.W.R. RESPONSE



TUNING TABLE

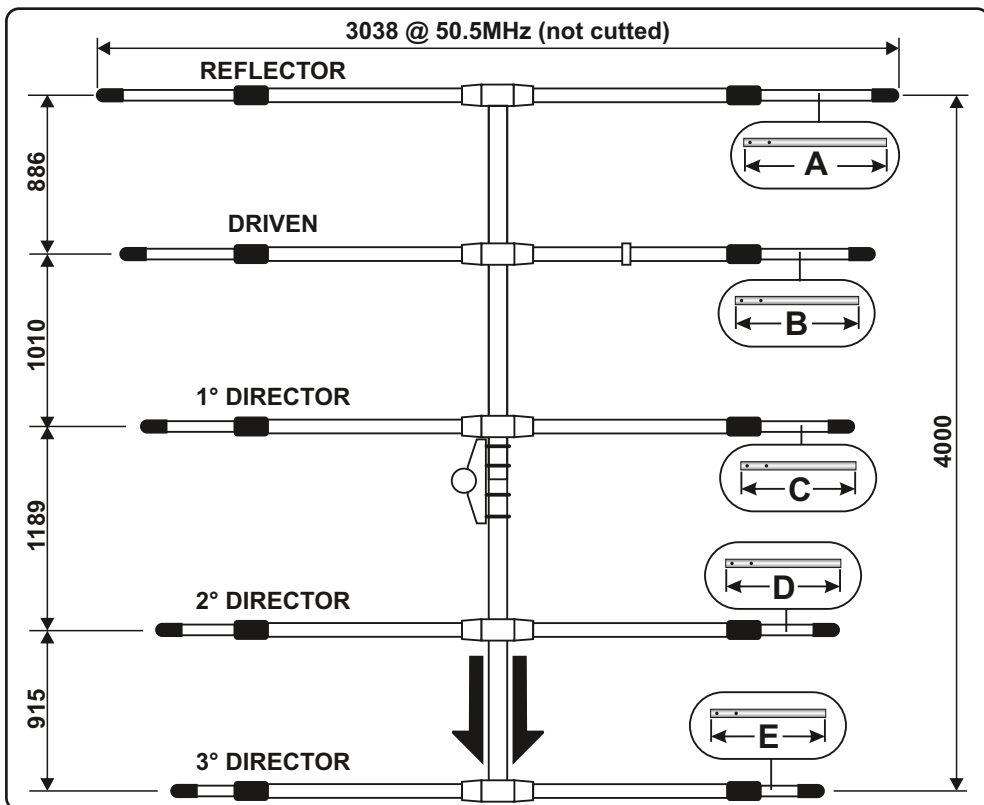
Freq. (MHz)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	L1 (mm)	L2* (mm)
50-51 (not cutted)	468	347	287	224	214	358	207 ± 3
51-52	430	319	261	199	189	338	205 ± 3
52-53	396	281	225	163	153	353	212 ± 3
53-54	360	255	200	140	130	339	213 ± 3

* For the best tuning, please adjust only the gamma match L2 with an SWR-Meter, about indicated range.

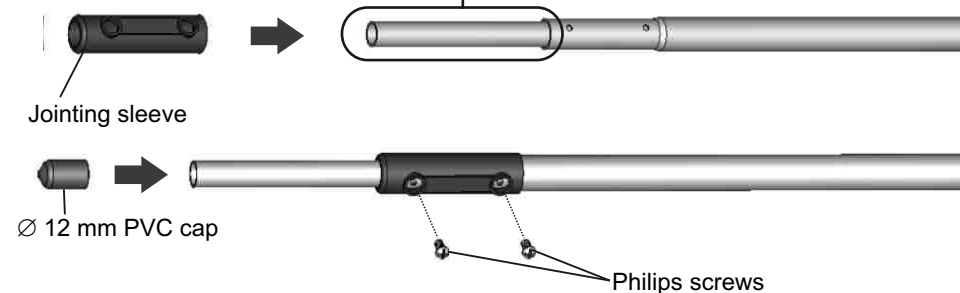
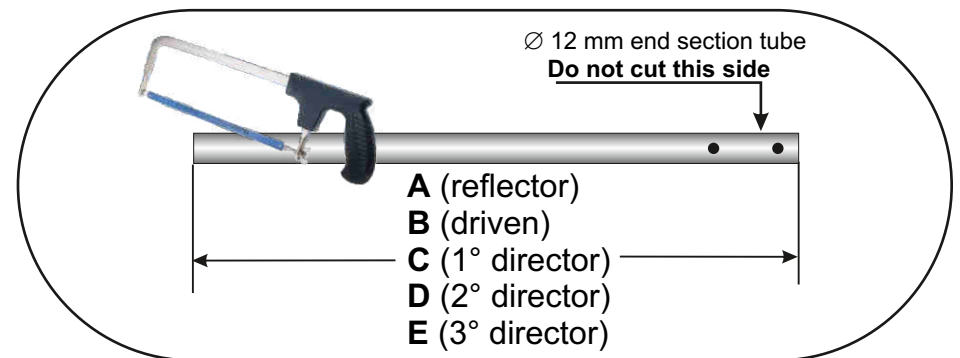
Mounting needed tools:

- n. 1 tape rules (meter)
- n. 1 hacksaw
- n. 1 screwdriver cross point
- n. 1 10mm open key
- n. 1 13mm open key

REMARK: use a good coax cable like RG-8 or RG-213 as short as possible to get the best performance and we recommend to mount your antenna as far as possible from metal roofs, walls, power lines and other antennas.



Elements mounting



1) From tuning table select the working frequency and cut the Ø12mm tube of end section at length A, B and C.

2) Insert the jointing sleeves and the Ø12mm tubes of end section then fix all using the phillips screws. Place the PVC cap.

3) Insert without looking the tuning element on one Ø16mm tube on DRIVEN and fix the tubes with supplied hex socket screws and key.

Be careful to check that all parts are well locked.

Mounting Elements parts list	
Q.ty	Description
2	Ø 17.5mm Plastic jointing sleeve
2	Ø 12 mm PVC cap
4	3.9x6.5mm phillips tapping screw
4	M6 Hexagonal nut
Re-order code: SA253	

