

VHF Directional Yagi Antennas

70-250 MHz

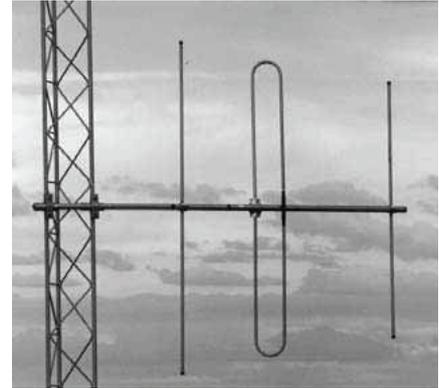
YL, YH Series



The YL and YH Series yagi antennas are ideal in applications requiring directional gain. These yagis, with predictable beamwidths and consistently high front to back ratios are ideal for long or short haul links and other applications demanding specific radiation pattern control.

The boom and the elements are constructed from thick walled alodined aluminium tubing. The passive elements are of one piece construction and clamped to the boom with a unique wrap around single bolt bracket. The radiating element is through mounted onto the boom. All fittings and fasteners are made from marine grade stainless steel and self locking nuts are used throughout the assembly to prevent loosening due to vibration.

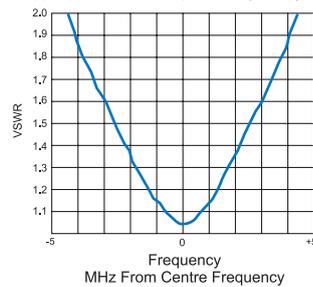
YL and YH yagis are supplied unassembled for ease of handling and are quickly assembled using only basic tools. Colour coding of elements and the boom section further simplify the assembly and installation.



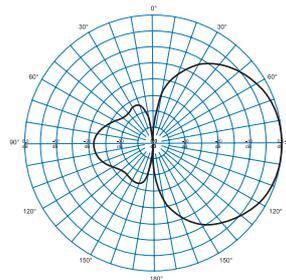
Features:

- High Performance - ideal in long or short haul applications
- Controlled Beamwidths - Predictable beamwidths and consistently high front to back ratios
- Simplified Installation - Colour coding and unique single bol clamps simplify installation
- DC Grounding on all elements for the ultimate in lightning protection and dissipation of static noise

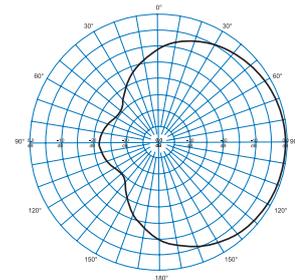
Typical VSWR response (YL03)



YL03 - E Plane



YL03 - H Plane



Specifications

Model Number	YL03	YH03	YH04	YH06
Nominal Gain <i>dBi</i> (<i>dBd</i>)	8 (6)	8 (6)	9 (7)	11 (9)
Frequency <i>MHz</i>	70 - 100	100 - 250		
Tuned Bandwidth <i>MHz</i>	5	9	8	
VSWR (Return Loss)	< 1.5:1 (14dB)			
Nominal Impedance Ω	50			
Vertical Beamwidth $^\circ$	60	60	55	52
Horizontal Beamwidth $^\circ$	75	75	70	50
Front to Back Ratio <i>dB</i>	15	Typical 15		
Input Power per port <i>W</i>	250			

Mechanical

Model Number	YL03	YH03	YH04	YH06	
Construction	Thick walled aluminium boom and elements with alodined finish				
Length <i>m</i>	2.1	1.8	2.4	3.5	
Weight <i>kg</i>	4.0	2.6	3.5	5.0	
Termination	N female with RG213 cable tail				
Mounting Area	400mm x 40mm diam. aluminium				
Suggested Clamps	UCR2				
Projected Area <i>cm</i> ²	No Ice	2878	2141	2772	3870
	With Ice	5826	4080	5368	7434
Wind Load (Thrust) @ 160km/h <i>N</i>	341	254	329	459	
Torque @ 160 km/h <i>Nm</i>	320	199	355	764	