

Section 2 ← Fixed Position





Y100 Series

Scaled low frequency round boom Yagi's VHF Band I 40-69 MHz



The Y100 series directional VHF Yagi antennas are specifically designed, manufactured and tuned for utilisation within the VHF frequency range 40-69

Mounting hardware, coaxial feeder cable, connectors and other installation accessories are all available separately.

		Y102	Y103	Y104	Y106		
Construction		Corrosion resistant anodised aluminium boom and elements, PVC dipole supports, RG213 coaxial cable and termination Y102 and Y103 available in 304 grade stainless steel				-	1
Frequency range		40-69 MHz - VHF Band I				-	Y102
Bandwidth		Specify any 2% or transmit and receive - when ordering				-	
Tuning		Factory				_	
VSWR		<1.5:1 across specified bandwidth				_	IH
Number of elements		2	3	4	6		
Gain - nominal		3 dBd	6 dBd	7.5 dBd	9 dBd	_	H
Polarisation		Mount horizontal or vertical as required				_	U
Maximum power		250 Watts				_	Y103
Impedance		50 Ohms				Ī	
H Plane at 3 dBd		135°	76°	62°	50°		A 1
E Plane at 3 dBd		70°	57°	54°	46°		
Front-to-back ratio		15 dB	14 dB		16 dB		Ц
Connector and cable		N-type female connector jack fitted to 1.5 metres RG213 cable, exiting from rear/base of dipole assembly					
Boom length at 40 MHz		2.2 metres	3.72 metres	5.0 metres	8.4 metres	_	Y104
Longest element		3.7 metres					
Weight	Alum S/Steel	- 6kg - N/A	- 8kg - 10kg	- 10kg - N/A	- 12kg - N/A	_ A	\ \
Projected area		0.278m ²	0.400m ²	0.506m ²	0.752m ²		
Wind load at 160kph		0.33kN ; 33.722kg	0.474kN ; 48.401kg	0.601kN ; 61.332kg	0.893kN; 91.121kg		j \ \
Strut kit recommended		YS1-100 or YS1-200 - order separately				_	Y106
Mounting hardware order separate		1 x Y2300 for aluminium models or 1 x Y2300-SS for stainless steel models				-	1100
Installation tools required		10mm spanner for element + dipole securing onto boom				-	



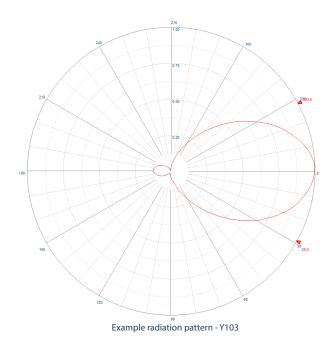
Section 2 Fixed Position

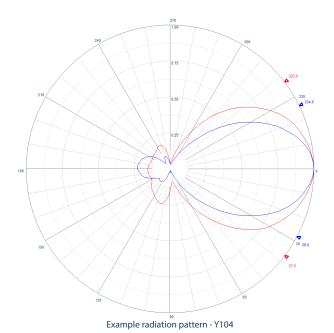


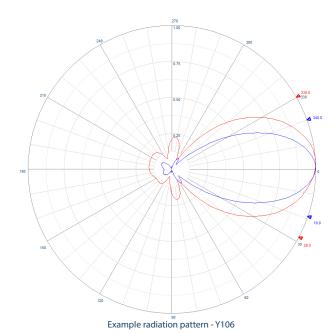
Y100 Series



Scaled low frequency round boom Yagi's VHF Band I 40-69 MHz









Section 2 ≈ Fixed Position





Y100 Series

Scaled low frequency round boom Yagi's VHF Band I 40-69 MHz



Suitable mounting hardware



Y2300

Galvanised steel right-angle round boom Yagi clamp

Boom: 30-50mm capability

Mount pole: 30-50mm capability

Also available in stainless steel

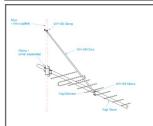


Y2300-XL

Galvanised steel extra large right-angle round boom Yagi clamp

Boom: 32-50mm capability Mount pole: 50-90mm capability

Also available in stainless steel



YS1-100

Single tension strut kit includes strut mounting hardware.

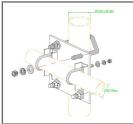


Y2300-I

Galvanised steel large rightangle round boom Yagi clamp Boom: 32-50mm capability Mount pole: 40-75mm

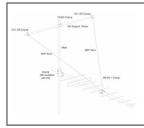
capability

Also available in stainless steel



Galvanised steel extra large right-angle round boom Yagi

Boom: 32-50mm capability Mount pole: 100-125mm capability



YS2-100

Dual tension strut kit includes strut mounting hardware and support boom.

Suitable feeder coaxial cable and connectors



RU400 low loss, solid copper core, foam dielectric cable P/N 7890

Ultra flexible SKU - P/N 7890-2 Available in 100m, 300m or 500m (UF only) roll or

alternatively request a custom cable assembly



1/2" corrugated shielding, foam dielectric coaxial cable P/N ZCG1250

Available in per metre or 500m rolls or alternatively request a custom cable assembly



7/8" corrugated shielding, foam dielectric coaxial cable P/N ZCG7850

Available in per metre or 500m rolls or alternatively request a custom cable assembly



N-type male clamp connector for 1/2" super flexible, helical shielded coaxial cable

P/N NM1250SF

Tri-metal plated



N-type male clamp connector for 1/2" flexible, corrugated shielded, coaxial cable

P/N NM1250

Tri-metal plated



N-type male clamp connector for 7/8" flexible, corrugated shielded, coaxial cable

P/N NM7850

Tri-metal plated



Section 2 Fixed Position

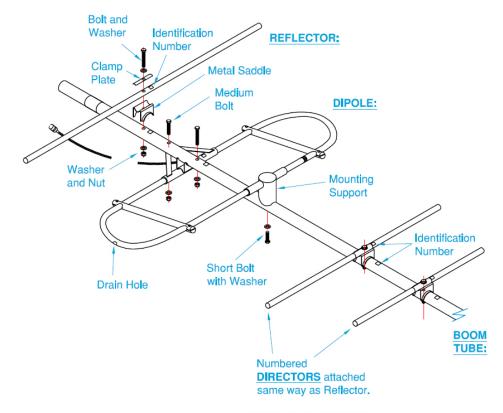


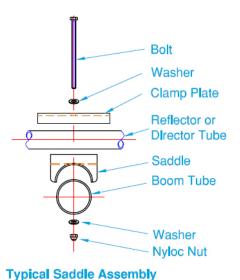
East Gippsland

Y100 Series



Scaled low frequency round boom Yagi's VHF Band I 40-69 MHz





Installation Instructions:

- Fit Dipole to the Boom Tube as shown using Bolt & Washer through Clamp Plate, Dipole Tube, Saddle, Washer & 'Nyloc' Nut matching the assembly numbers shown in the diagram.
- Attach insulated side of Dipole using Short Bolt with Washer through Boom Tube and into plastic Mounting Support.
- Flt all other Elements to Boom Tube, matching the corresponding Identification Numbers.
- 4. Strap Cable to Boom using Cable Ties (not provided) or similar.
- Mounting can be HORIZONTAL or VERTICAL polarisation:
 - For HORIZONTAL polarisation, mount the antenna with Cable entry slot downwards.
 - For <u>VERTICAL</u> <u>polarisation</u>, make sure the <u>Drain Hole</u> in the Dipole is facing <u>downwards</u>.