



## Y615-DP

High gain dual polarised 15 element Yagi antenna

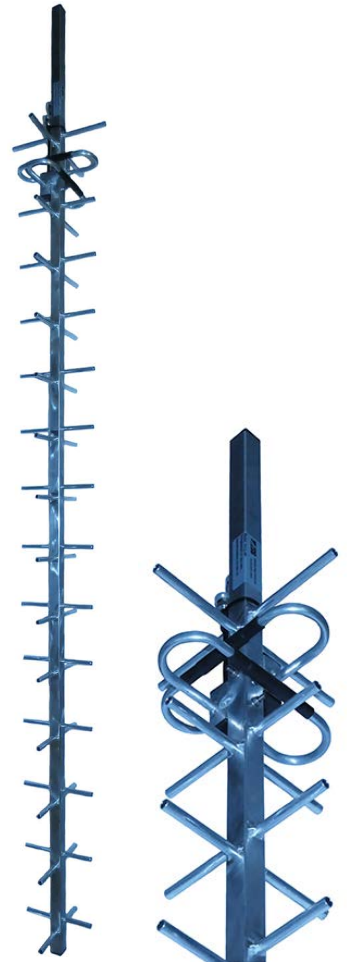
Custom frequency UHF 570-700MHz



Our Y615-DP dual polarised Yagi allows two signals to be transmitted from one Yagi with an offset of 90 degrees saving space on your mounting structure. The 90 degree offset disallows the signals to interact with one another.

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

Construction	Fully welded aluminium boom, dual pol. elements, dual pol. dipoles, dual external coaxial cables and dual terminations
Frequency range	570-700 MHz - UHF
Bandwidth	Specify any 50 MHz per plane
Tuning	Factory
VSWR	<1.5:1 across specified bandwidth/s
Cross elements	15 - each plane
Gain - nominal	14 dBd per plane
Polarisation	Horizontal & Vertical or can be mounted +/- 45°
Maximum power	150 Watts per input
Isolation	Minimum -25dB between polarisations
Impedance	50 Ohms
DC grounding	Yes
H Plane - each plane	30°
E Plane - each plane	33°
Connector	2 x N-type female connectors fitted to cables
Boom length	2.4m when scaled at 570 MHz
Max. element length	280mm when scaled at 570 MHz
Weight	3.4kg
Projected area	0.076m <sup>2</sup>
Wind Load at 160kph	9.227kg, 0.090kN
Mounting hardware order separate	1 x S48 for H&V mounting or S48-AM for +/-45° mounting - larger capable mounting clamps are available, consult ZCG 1 x YS1-48 or YS2-48 strut support to reduce mechanical tilt/movement
Mounting position recommended	Mount as high onto your structure/tower as possible using the appropriate mounting hardware, ensure no metallic obstructions impede elements or dipoles as this will affect signal/performance.

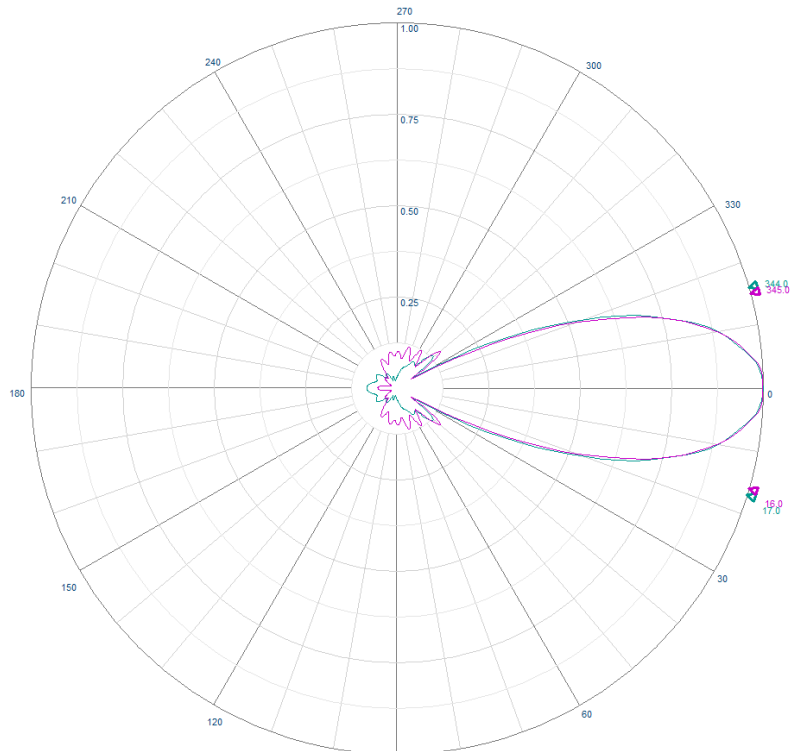




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Example Polar radiation pattern - per plane



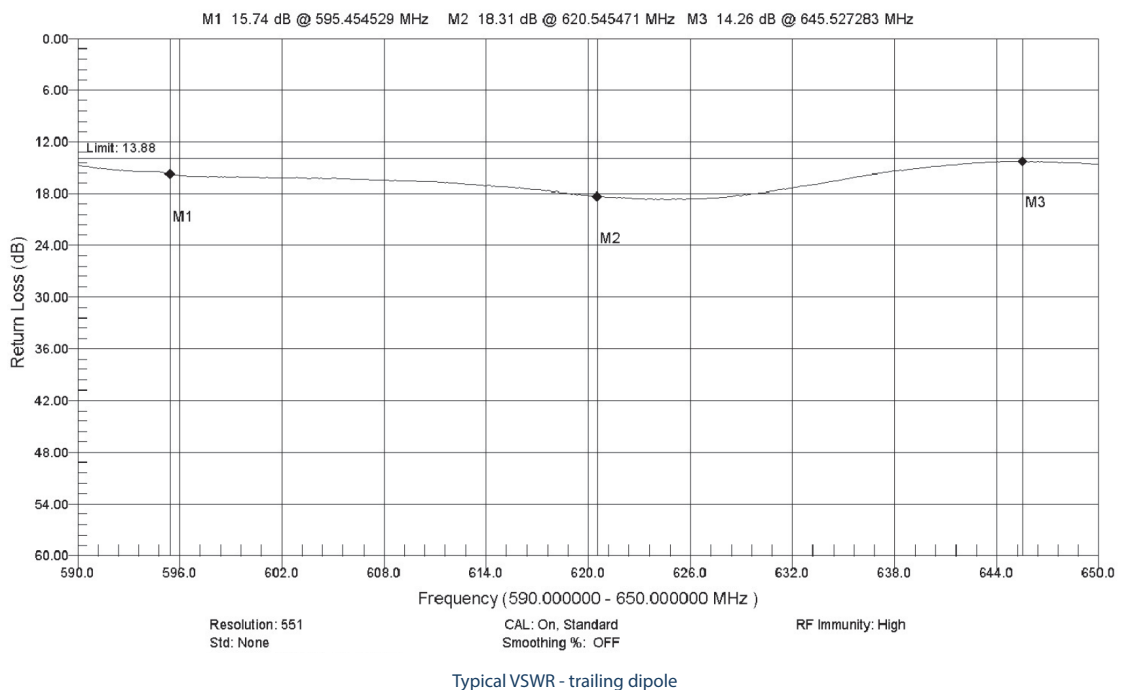
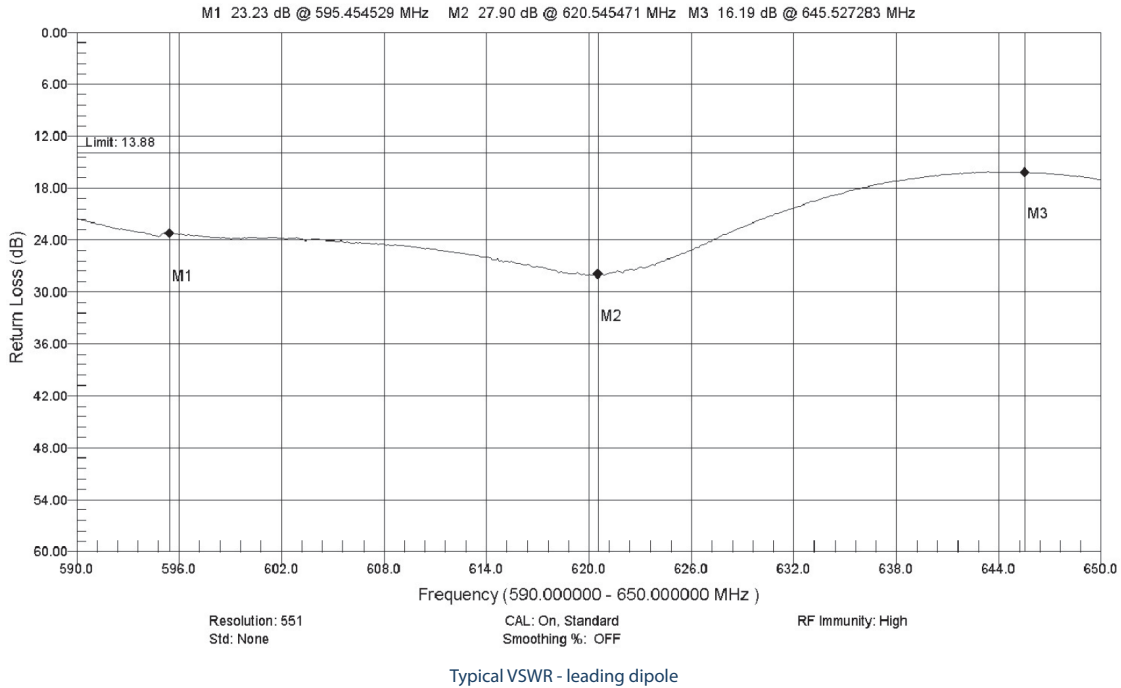
Example Cartesian radiation pattern - per plane



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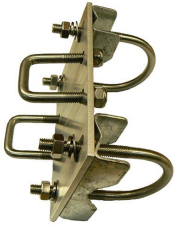




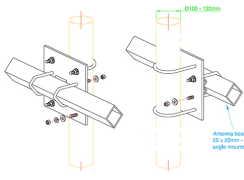

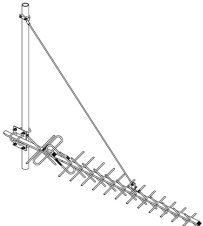




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### Suitable mounting hardware

 <p><b>SKU: S48</b> 304 stainless steel or</p> <p><b>SKU: A48</b> Galvanised steel</p> <p>Right-angle for 25mm RHS 30-50mm mount pole</p>	 <p><b>SKU: S48-76</b> 304 stainless steel right-angle for 25mm RHS 60-75mm mount pole</p> <p><b>SKU: A48-65</b> Galvanised steel right-angle for 25mm RHS 50-65mm mount pole</p>
 <p><b>SKU: S48-90</b> 304 stainless steel Right-angle for 25mm RHS 70-90mm mount pole</p>	 <p><b>SKU: S48-AM</b> 304 stainless steel or</p> <p><b>SKU: A48-AM</b> Galvanised steel</p> <p>Right-angle +/- 45 deg Yagi mount for 25mm RHS 30-50mm mount pole</p>
 <p><b>SKU: S48-AM-76</b> 304 stainless steel right-angle +/- 45 deg Yagi mount for 25mm RHS, 60-75mm mount pole</p> <p><b>SKU: A48-AM-65</b> Galvanised steel right-angle +/- 45 deg Yagi mount for 25mm RHS, 50-65mm mount pole</p>	 <p><b>SKU: S48-AM-120</b> 304 stainless steel or</p> <p>Right-angle +/- 45 deg Yagi mount for 25mm RHS, 100-120mm mount pole</p>
 <p><b>SKU: YS1-48</b> Single tension strut support or</p> <p><b>SKU: YS2-48</b> Dual tension strut support with spreader bar</p> <p>Mount pole and Yagi mount clamp not supplied</p>	 <p><b>SKU: YS1-48-CP</b> Single tension strut support</p> <p>For mounting antenna in +/- 45 degree orientation</p>

### Suitable feeder coaxial cable and connectors

 <p><b>SKU: 7890</b> RU400 Solid copper conductor, low loss coaxial cable CNT-400 / LMR-400™ equivalent (™ times microwave)</p> <p><b>SKU: 7890-2</b> - ultra flexible Available in 100m ,300m or 500m rolls or alternatively request a custom cable assembly</p>	 <p><b>SKU: NM-8226</b> N-type male crimp connector for RU400 low loss, solid conductor</p> <p>Tri-metal plated</p>
 <p><b>SKU: ZCG1250</b> 1/2" corrugated shielding, foam dielectric coaxial cable</p> <p><b>SKU: ZCG1250SF</b> - super flex. helical Available in per metre, or 500m rolls or alternatively request a custom cable assembly</p>	 <p><b>SKU: NM1250</b> N-type male clamp connector for 1/2" flexible, corrugated shielded, coaxial cable</p> <p><b>SKU: NM1250SF</b> - super flex. helical Tri-metal plated</p>



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