

Section 7

DATA LINK ANTENNAS

Updated 8 May 2012

Y2650-9 and Y2650-18 Yagi Directional Point-to-Point Mast Mount

Frequency	Bandwidth
2.65 GHz	n/a



These Yagi mast mount antennas are designed for directional point-to-point 2.65 GHz data link transmit and receive applications. Constructed from brass and aluminium, the ultra violet resistant PVC radome protects the internal elements.

- **Y2650-9** has 9 elements and delivers **11.3 dBi** forward gain.
- **Y2650-18** is the high gain **17.8 dBi** model with 18 elements.

The short RG58 low loss cable tail is terminated with an N-Female connector rated for up to 25 watts input power.

These Yagi's can be mounted either horizontal or vertical as the application requires. For higher gain and power, mount antennas in a stack array formation.

U-bolts are supplied for mounting to a mast up to 50 mm in diameter. Coaxial feeder cable, connectors and fittings are all available separately to complete the installation.



SPECIFICATIONS	Y2650-9	Y2650-18
Construction	Brass and aluminium internals enclosed inside an ultra violet resistant white PVC radome. <i>(A black radome is available.)</i>	
Frequency Range	2.65 GHz	2.65 GHz
Return Loss, VSWR	Better than -15 dB, less than 1.5:1	
Tuning	Factory	Factory
Number of Elements	9	18
Gain	11.3 dBi	17.8 dBi
Maximum Input Power	25 Watts	25 Watts
Impedance	50 Ohms	50 Ohms
Polarisation	Mount Horizontal or Vertical as required	
E-Plane	43°	26°
H-Plane	36°	23°
Front-to-Back Ratio	-20 dB	-20 dB
DC Grounding	Yes	Yes
Cable Tail	RG58 low loss cable tail 200 mm long	
Connector	N-Female fitted	N-Female fitted
Length	300 mm	700 mm
Width	80 mm	80 mm
Weight	1.5 kg	2.0 kg
Projected Area	0.015 m ²	0.035 m ²
Wind Load at 160 kph	1.82 kg	4.26 kg
Mounting	U-Bolts are supplied for mounting to a round mast up to 50 mm in diameter	
Stack Array Spacing	Horizontal 173 mm apart	277 mm apart
	Vertical 145 mm apart	245 mm apart