



YLV3

FM Yagi Antenna

YLV Series

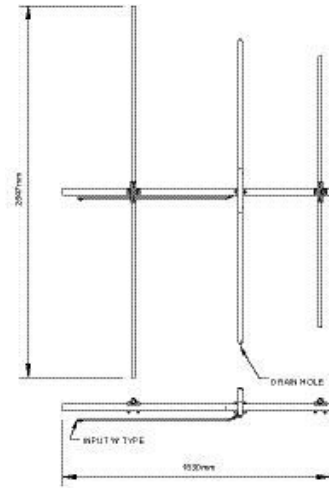
The YLV3 yagi antenna is suitable for use as an element in VHF transmitting arrays. By arranging a number of these elements around a suitable tower or mast an omnidirectional or a number of directional radiation patterns can be achieved. The YLV3 can also be used as a stand alone antenna.

The antenna can be centre mounted for single antenna applications or by an extended boom for mounting to tower or mast in an array configuration. Bracing kits are supplied as standard with antennas that require them. Mounting hardware is stainless steel. To facilitate package and transport, yagi antennas are transported as components. Detailed assembly instructions are provided.

Mounting clamps and tower brackets are available to suit a range of tower types. Contact RFS with your requirements.

FEATURES / BENEFITS

- Suitable for use as an array element or for stand alone operation
- Engineered for transmission of both Digital and Analog TV/Radio
- Light weight and low wind load
- All elements are DC grounded for lightning protection.



YLV3 - Dimensions shown for the model covering 47 - 54 MHz

Technical features

STRUCTURE

Product Line		Antenna TV	
Product Type		Band I (Low VHF) Yagi Antennas	Band II (VHF) FM Yagi Antennas

ELECTRICAL SPECIFICATIONS

Frequency Range	MHz	47 - 108
Polarization		Horizontal
Nominal Gain (Mid-band)	dBd	4.2
Return Loss	dB	>21 (typically 26 across channel)
Impedance (unbalanced)	Ω	50

MECHANICAL SPECIFICATIONS

Number of Channels		Single channel up to 8 MHz
Input Connector		N type
Dimensions (Height or Length)	cm (in)	20
Effective Area Front (full antenna) No Ice	m ² (ft ²)	0.46 (4.95)
Effective Area Front (full antenna) with 12.5mm(0.5") Radial Ice	m ² (ft ²)	0.46 (4.95)
Effective Area Side (full antenna) No Ice	m ² (ft ²)	0.13 (1.4)
Effective Area Side (full antenna) 12.5mm (0.5") Radial Ice	m ² (ft ²)	0.13 (1.4)
Design Wind Speed	km/h (mph)	240 (150)
Wind Load @ 50 m/sec Front	kN (lb)	0.69 (155)
Wind Load @ 50 m/sec Side	kN (lb)	0.2 (45)
Weight	kg (lb)	17 (37)

PACKAGING INFORMATION

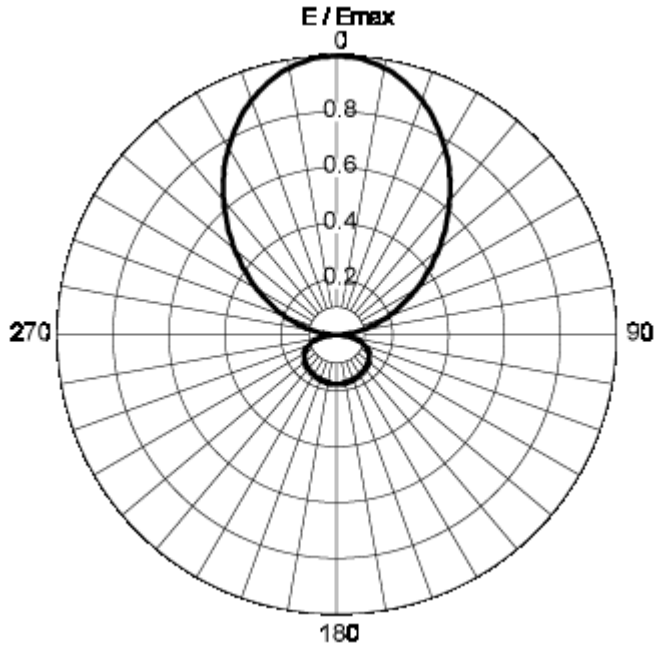
Shipping Weight, Kg (lb)	kg (lb)	17 ()
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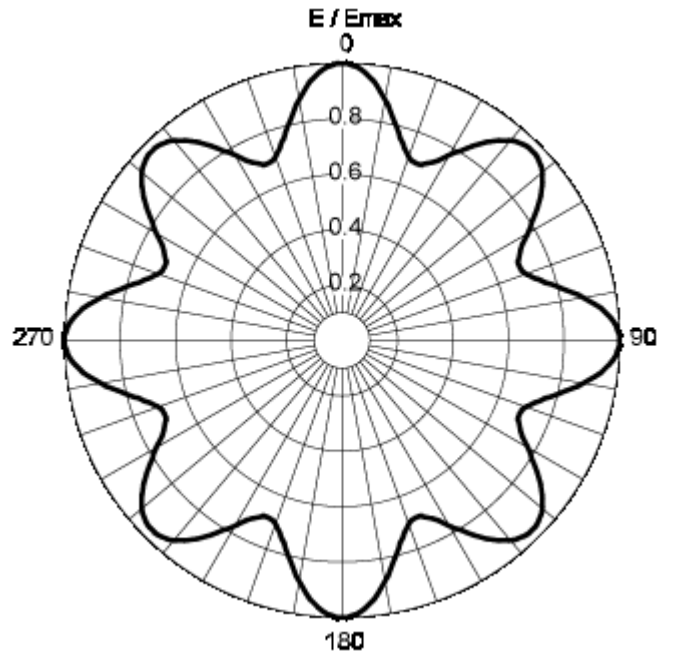
MATERIAL

Material - Support Pole /
Mounting

Aluminium



RADIATION PATTERN - Typical Azimuth Single antenna



RADIATION PATTERN - Typical Azimuth Array of four antennas on square mast

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