



Laird Connectivity's directional gamma matched Yagi antennas are focused on economical and high performance. This UHF Yagi series has a 9.1 dBi antenna gain and operates on the 430-450 MHz frequency range. It is manufactured using high strength 6061-T6 aluminum to withstand heavy ice, high wind, and other harsh conditions.

FEATURES AND BENEFITS

- Every Yagi is tuned on a network analyzer for best power match and lowest VSWR.
- All Yagi antennas ship complete with a high-quality cast aluminum mounting kit that includes stainless steel hardware and allows vertical or horizontal orientation during installation (VHF models require light assembly).

APPLICATIONS

- Point-to-point directional and multiple point to omnidirectional outdoor antenna applications used by private organizations and government agencies around the globe.
- Typical applications include transportation such as railroad switching, remote locations reporting examples that include oil fields and weather conditions and meter data transmissions for utilities.

ELECTRICAL SPECIFICATIONS

Model Name	YS4303
Operating Frequency (MHz)	430-450
VSWR	< 2:1
Return Loss – Max (dB)	-10
Gain (dBi)	9.1
Nominal Impedance (Ohms)	50
Max Power - Ambient 25°C (W)	300
Polarization	Vertical or horizontal
Pattern	Directional
Vertical Plane 3 dB Beamwidth	114°
Horizontal Plane 3 dB Beamwidth	115°
Tuning	Fixed tune
Transmitting/Receiving	Both
Front-to-Back Ratio (dB)	17

MECHANICAL SPECIFICATIONS

Dimensions – L x H – cm (inches)	51.4 x 34.6 (20.3 x 13.6)
Boom Diameter – cm (inches)	2.22 (0.875)
Material	Aluminum
Color	Silver
Lightning Protection	Lightning arrestor – LABH350NN (sold separately)
Mounting	Yagi mounting kit

ENVIRONMENTAL SPECIFICATIONS

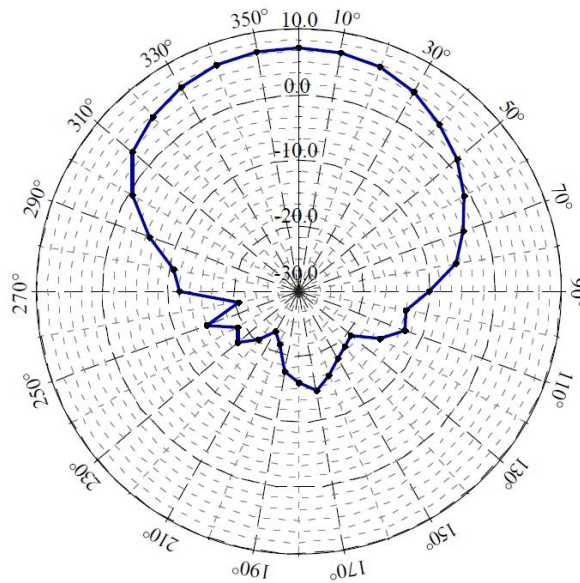
Operating Environment (Indoor or Outdoor)	Outdoor
Operating Temperature – °C (°F)	-30 to +70°C (-22 to +158°F)
Storage Temperature – °C (°F)	-30 to +70°C (-22 to +158°F)
Rated Wind Velocity – km/hr (mph)	241 (150)
Equivalent Flat Area – sq. m (sq. ft.)	0.04470 (0.48115)

CONFIGURATION

PART NUMBER	CABLE LENGTH	CONNECTOR
YS4303	N/A	N-Female

RADIATION PATTERNS

Vertical-to-Vertical Polarization Azimuth (X, Y, or E-plane)



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sales@lairdconnect.com
support@lairdconnect.com
www.lairdconnect.com



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