

400 MHz to 470 MHz, Heavy-Duty Yagi Antenna, 10dBi, N-female

The Fairview Microwave 400 MHz to 470 MHz FM51YA1015 Yagi antenna ships the same day and is designed for the most rugged conditions. This 400 MHz antenna provides 10 dBi of gain and adjustable polarization. The FM51YA1015 is ideally suited for 400 MHz and 450 MHz bands. Equipped with an N-Female connector, coaxial connections to a radio are simple and easy. This 10 dBi antenna supports Land Mobile Radio, northern border areas, Public Safety, Industrial and Business applications.

Measuring 38.4 inches long, the FM51YA1015 with N-female connectors from Fairview Microwave is manufactured using robust 5/16" aircraft quality aluminum elements. The FM51YA1015 elements are completely welded to a 1" boom and painted black. This ensures performance and survivability in the toughest environments.

400 MHz Yagi antennas from Fairview Microwave are high-quality components backed by expert technical support and sales personnel. Like the other RF components at Fairview Microwave, the 10 dBi FM51YA1015 is ready to ship the same day.

Configuration

Design	Yagi
Gain	10 to 10 dBi
Polarization	Linear
Connector Type	N Female
Number of Ports	1

Electrical Specifications

Description	Min	Typ	Max	Units
Frequency Range	400		470	MHz
Input VSWR		1.7:1		
Impedance		50		Ohms
Gain		10		dBi
Input Power			100	Watts

Specifications by Frequency

Description	Band 1	Band 2	Band 3	Band 4	Band 5	Units
Range	0.4-0.435	0.435-0.47				GHz
Gain	10	10.5				dBi
Horiz. Beam Width	70	65				Degrees
Vert. Beam Width	55	50				Degrees
VSWR	1.7:1					

Mechanical Specifications

Housing Material	Aluminum
Housing Plating/Color	Powder Coat

Size

Length	38.4 in [975.36 mm]
Width	16.5 in [419.1 mm]
Height	4.3 in [109.22 mm]



Features:

- Aircraft Quality 6061-T6 Aluminum with 5/16" Elements Welded to a 1" Boom
- Powder-Coated Black for Corrosion, Fade, and Ice-Build Up Resistance
- Can be Installed for Either Vertical or Horizontal Polarization
- Comes with N-Type Female Connectors

Applications:

- 400-470 MHz, Wireless Communications Systems
- LORA Wireless Data Collection Systems
- 450 MHz CDMA
- GMRS
- SCADA
- Family Radio Service 2-Way
- UHF Business Band

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Mounting Mast Diameter 0.75 to 3 in [19.05 to 76.20 mm]
Weight 2.29 lbs [1.04 kg]

Environmental Specifications

Temperature

Operating Range -40 to +60 deg C
Storage Range -40 to +140 deg C

Wind Loading 200 MPH [321.87 KPH]
Ingress Protection IP55

Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

400 MHz to 470 MHz, Heavy-Duty Yagi Antenna, 10dBi, N-female from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [400 MHz to 470 MHz, Heavy-Duty Yagi Antenna, 10dBi, N-female FM51YA1015](#)

URL: <https://www.fairviewmicrowave.com/single-antenna-400-470-mhz-10-dbi-gain-n-fm51ya1015-p.aspx>

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