

4078

11 dBi GAIN
915MHz BAND 5 ELEMENT HEAVY DUTY YAGI

FEATURES

- **Rugged and Weatherproof**
- **Lightweight Aluminum**
- **SS Mounting Hardware Included**
- **Wind Survival to 125 MPH**

DESCRIPTION

Yagi antennas achieve more gain than vertical antennas by concentrating radiation in a single direction. Their reduced gain from the back end helps keep other signals from interfering with normal operation. The front to back ratio is an important characteristic of a yagi antenna.

A yagi antenna can be operated with the elements mounted vertically or horizontally, but the most common use for industrial wireless is vertical. The transmitting and receiving antenna must both have the same element polarization for satisfactory operation. A large loss in signal is experienced when the elements are crossed polarized.

When a vertical omnidirectional antenna is used on the control end of a polling system, a yagi can be used on each slave unit for maximum gain and reduction in interference due to the front to back ratio gain reduction.

These heavy duty yagi antennas are constructed of 1" aluminum U channel with 3/8" solid elements. All exposed areas are coated with UV polyester. The balun assembly is filled and sealed with elastomeric thermoplastic.

The connector is a Type N Female on a 12" teflon pigtail cable.

SPECIFICATIONS

ELECTRICAL

GAIN
11dBi
Front to Back Ratio
18dB

FREQUENCY
866-960MHz

IMPEDANCE
50 ohms

VSWR
<2:1

VERT BEAM WIDTH
55°

HORIZ BEAM WIDTH
65°

POWER RATING
300 watts

CONNECTOR
Type N Female on 12" Teflon Pigtail

MECHANICAL

MATERIAL
1" aluminum U channel boom
3/8" solid elements

FINISH
UV inhibited polyester coat

LENGTH
21"

WEIGHT
<4 lbs.

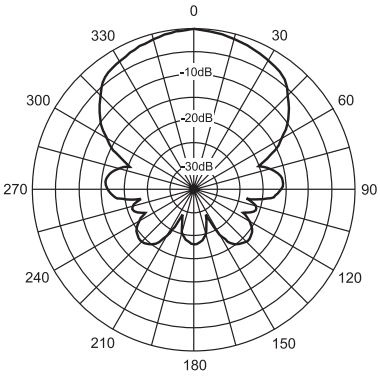
MOUNT
Stainless Hardware for $2^{3}/_{8}$" mast

FLAT PLATE AREA
.206 ft^2

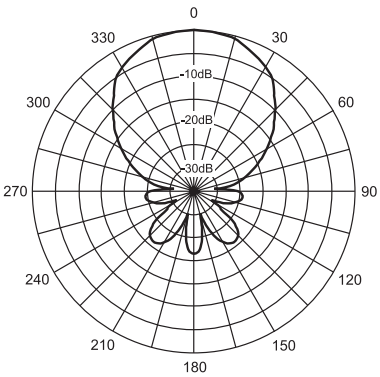
WIND RATING
125 MPH

WIND LOAD
12.3 lbs.

HORIZONTAL PATTERN



VERTICAL PATTERN



ORDERING INFORMATION

4078	11dBi Gain, 5 Element, Heavy Duty Yagi Antenna	QTY _____

ACCESSORIES

4026	Bulkhead Connector Type N Female to Type N Female	QTY _____
4011	Bulkhead Surge Protector Type N Male to Type N Female	QTY _____
4035	Bulkhead Surge Protector Type N Female to Type N Female	QTY _____
4073	Two Antenna Coupler, Transmit and Receive, 2-Port 900 MHz	QTY _____
4051	Receive Only, 2 to 4 Antenna Coupler 4-Port 900 MHz	QTY _____
4062	50 Ohm Termination, For Unused Ports On P/N 4051,4061	QTY _____

For more accessories, see the ACCESSORIES section of this catalog (Page 51).

CABLES

RP = Reverse Polarity

CPT2	2 Ft WBC195 Cable w/ RP-SMA Male & Type N Male Connector	QTY _____
CPT6	6 Ft WBC195 Cable w/ RP-SMA Male & Type N Male Connector	QTY _____
CPT10	10 Ft WBC195 Cable w/ RP-SMA Male & Type N Male Connector	QTY _____
CPT-X	Custom length WBC195 Cable w/ RP-SMA Male & Type N Male Connector Specify length from 12 inches to 120 Inches Length _____ Inches	QTY _____

C195NM-NM-2	2 Ft WBC195 Cable w/ Type N Male & Type N Male Connector	QTY _____
C400NM-NF-10	10 Ft WBC400 Cable w/ Type N Male & Type N Female Connector	QTY _____
C400NM-NF-20	20 Ft WBC400 Cable w/ Type N Male & Type N Female Connector	QTY _____
C400NM-NF-30	30 Ft WBC400 Cable w/ Type N Male & Type N Female Connector	QTY _____
C400NM-NF-40	40 Ft WBC400 Cable w/ Type N Male & Type N Female Connector	QTY _____
C400NM-NF-50	50 Ft WBC400 Cable w/ Type N Male & Type N Female Connector	QTY _____
C400NM-NF-75	75 Ft WBC400 Cable w/ Type N Male & Type N Female Connector	QTY _____
C400NM-NF-100	100 Ft WBC400 Cable w/ Type N Male & Type N Female Connector	QTY _____
C400NM-NM-10	10 Ft WBC400 Cable w/ Type N Male & Type N Male Connector	QTY _____
C400NM-NM-20	20 Ft WBC400 Cable w/ Type N Male & Type N Male Connector	QTY _____
C400NM-NM-30	30 Ft WBC400 Cable w/ Type N Male & Type N Male Connector	QTY _____
C400NM-NM-40	40 Ft WBC400 Cable w/ Type N Male & Type N Male Connector	QTY _____
C400NM-NM-50	50 Ft WBC400 Cable w/ Type N Male & Type N Male Connector	QTY _____
C400NM-NM-75	75 Ft WBC400 Cable w/ Type N Male & Type N Male Connector	QTY _____
C400NM-NM-100	100 Ft WBC400 Cable w/ Type N Male & Type N Male Connector	QTY _____

For more cables, see the ACCESSORIES section of this catalog (Page 52).