

# 13 dBi Yagi Yagi Antenna 880-960 MHz N Type Connector

## Antennas Technical Data Sheet

PE51YA1016

### Features

- Aircraft Quality 6061-T6 Aluminum with 5/16" Elements with 360° Fully Welded to a 1" Boom
- Powder-Coated Balck for Corrosion, Fade, and Ice-Build Up Resistance
- Can be Installed for Either Vertical or Horizontal Polarization
- Comes with 36" LMR400 Pigtails with N-Type Female Connectors

### Applications

- 900 MHz Cellular and GSM
- 900 MHz ISM Band & Wireless LAN Systems
- Point to Multipoint & Non Line of Sight
- NLOS Applications
- RFID & SCADA
- LPWAN, LoRA, IoT, M2M

### Description

The Pasternack 880 MHz to 960 MHz PE51YA1016 Yagi Antenna ships the same day and is designed for the most rugged conditions. This 900 MHz antenna provides 13 dBi of gain and adjustable polarization. Equipped with an N-Female connector on a 36 in LMR400 pigtail, coaxial connections to a radio are simple and easy. The PE51YA1016 is ideally suited for 900 MHz ISM bands. This 13 dBi antenna supports Land Mobile Radio for land transportation, utility, manufacturing, and petrochemical companies (oil and gas).

Measuring 43 inches long, the N-female PE51YA1016 from Pasternack is manufactured using robust 5/16" aircraft quality aluminum elements. The PE51YA1016 elements are completely welded to a 1" boom and painted black. This ensures performance and survivability in the toughest environments.

880 MHz to 960 MHz Yagi antennas from Pasternack are high-quality components backed by expert technical support and sales personnel. Like the other RF components at Pasternack, the 13 dBi PE51YA1016 is in stock and ready to ship the same day.

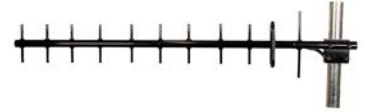
### Configuration

|                              |                       |
|------------------------------|-----------------------|
| Design                       | Yagi                  |
| Band Type                    | Single                |
| Radiation Pattern            | Directional           |
| Polarization                 | Linear                |
| Cable Type                   | LMR400                |
| Cable Length                 | 36 in [914.4 mm]      |
| Connector Type               | N Female              |
| Number of Ports              | 1                     |
| Housing Material and Plating | Aluminum, Powder Coat |

### Electrical Specifications

| Description     | Minimum | Typical | Maximum | Units |
|-----------------|---------|---------|---------|-------|
| Frequency Range | 880     |         | 960     | MHz   |
| Input VSWR      |         | 1.3:1   | 1.5:1   |       |
| Impedance       |         | 50      |         | Ohms  |
| Gain            |         | 13      |         | dBi   |
| Input Power     |         |         | 150     | Watts |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [13 dBi Yagi Yagi Antenna 880-960 MHz N Type Connector PE51YA1016](#)



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### Specifications by Band

| Description           | Band 1  | Band 2  | Band 3 | Band 4 | Band 5 | Units   |
|-----------------------|---------|---------|--------|--------|--------|---------|
| Range                 | 880-928 | 928-960 |        |        |        | MHz     |
| Gain                  | 12.5    | 13      |        |        |        | dBi     |
| Horizontal Beam Width | 42      | 40      |        |        |        | Degrees |
| Vertical Beam Width   | 38      | 35      |        |        |        | Degrees |
| VSWR Max 1.5:1        | 1.5:1   |         |        |        |        |         |

### Mechanical Specifications

|                        |                                  |
|------------------------|----------------------------------|
| Housing Material       | Aluminum                         |
| Housing Plating/Color  | Powder Coat                      |
| <b>Size</b>            |                                  |
| Overall Length         | 43 in [109.22 cm]                |
| Width                  | 7.1 in [180.34 mm]               |
| Height                 | 2.4 in [60.96 mm]                |
| Mounting Mast Diameter | 0.75 to 2 in [19.05 to 50.80 mm] |
| Weight                 | 16 lbs [7.26 kg]                 |

### Environmental Specifications

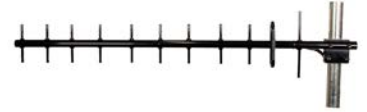
|                    |                      |
|--------------------|----------------------|
| <b>Temperature</b> |                      |
| Operating Range    | -40 to +60 deg C     |
| Storage Range      | -40 to +140 deg C    |
| Wind Loading       | 200 MPH [321.87 KPH] |
| ESD Protection     | IP55                 |

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

### Plotted and Other Data

Notes:

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [13 dBi Yagi Yagi Antenna 880-960 MHz N Type Connector PE51YA1016](#)



## 13 dBi Yagi Yagi Antenna 880-960 MHz N Type Connector

### Antennas Technical Data Sheet

PE51YA1016

13 dBi Yagi Yagi Antenna 880-960 MHz N Type Connector from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [13 dBi Yagi Yagi Antenna 880-960 MHz N Type Connector PE51YA1016](#)

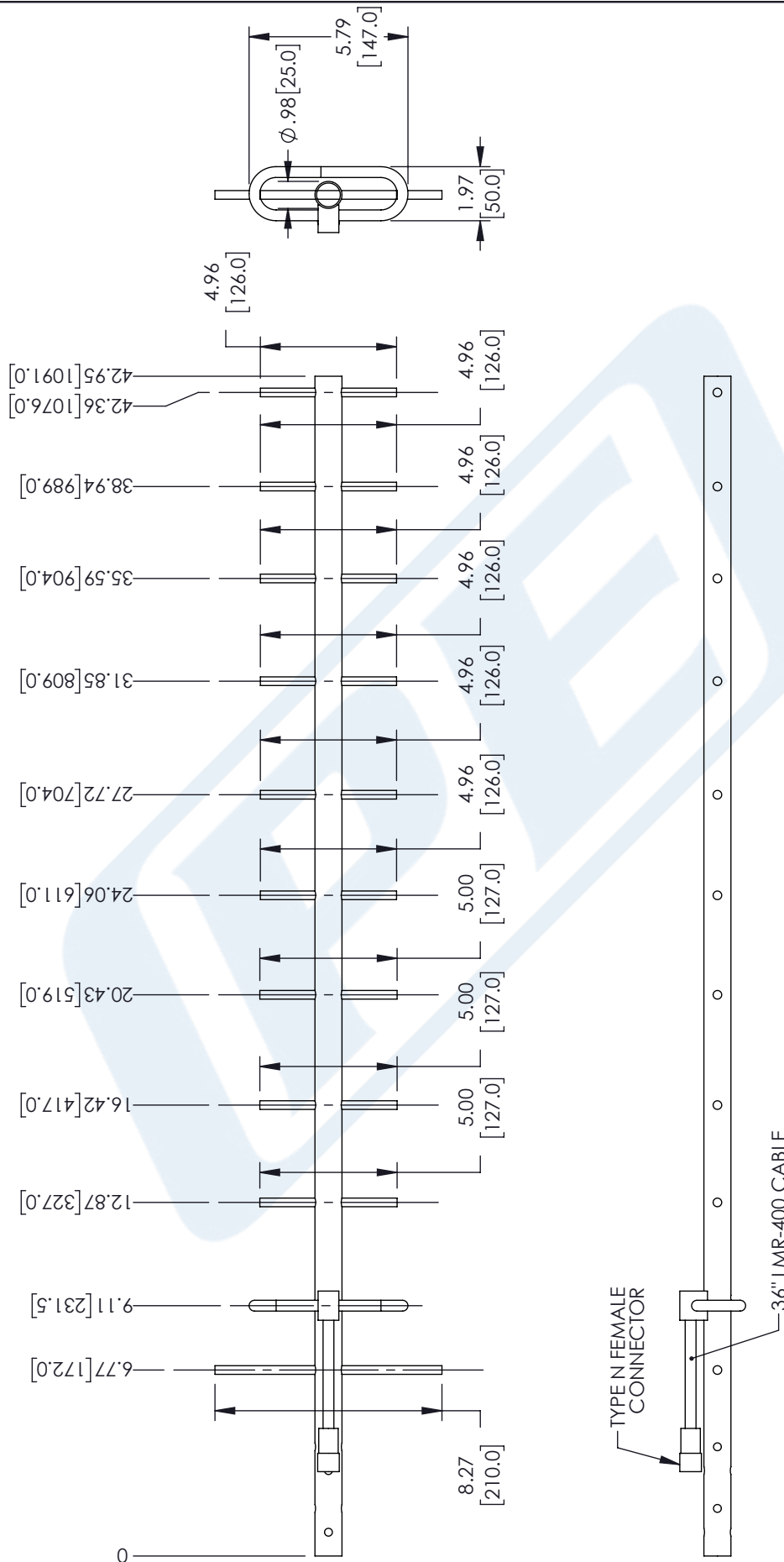
URL: <https://www.pasternack.com/single-antenna-880-960-mhz-13-dbi-gain-n-pe51ya1016-p.aspx>

The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Pasternack reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack does not assume any liability arising out of the use of any part or documentation.

# PE51YA1016 CAD Drawing

## 13 dBi Yagi Yagi Antenna 880-960 MHz N Type Connector

| REVISIONS |                 |                     |
|-----------|-----------------|---------------------|
| REV.      | DESCRIPTION     | DATE                |
| A         | INITIAL RELEASE | 07/10/2020          |
|           |                 | APPROVED<br>KHETPAS |



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THIRD-ANGLE PROJECTION

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SHEET 1 OF 1

SCALE N/A

REV A

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UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [ ] ARE MILLIMETERS

TOLERANCES:  
 .X = ±.2 [5.08]    FRACTIONS ± 1/32  
 .XX = ±.02 [ .51]    ANGLES ± 1°  
 .XXX = ±.005 [ .13]    ANGLES ± 1°

CABLE LENGTH (L), TOLERANCES:  
 L ≤ 12 [305] = +1 [25] / -0  
 12 [305] < L ≤ 60 [1524] = +2 [51] / -0  
 60 [1524] < L ≤ 120 [3048] = +4 [102] / -0  
 120 [3048] < L ≤ 300 [7620] = +6 [152] / -0  
 300 [7620] < L = +5% / -0

ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

SIZE [CAGE CODE] DRAWN BY ITEM NO.

A [53919] DZINN PE51YA1016

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