



880 MHz to 960 MHz, Heavy-Duty Yagi Antenna, 9dBi, N-female

## Antennas Technical Data Sheet

PE51YA1018

### 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 PE51YA1018 Yagi Antenna ships the same day and is designed for the most rugged conditions. This 900 MHz antenna provides 9 dBi of gain and adjustable polarization. Equipped with an N-Female connector, coaxial connections to a radio are simple and easy. The PE51YA1018 is ideally suited for 900 MHz ISM bands. This 9 dBi antenna supports Land Mobile Radio for land transportation, utility, manufacturing, and petrochemical companies (oil and gas).

Measuring 24.3 inches long, the N-female PE51YA1018 from Pasternack is manufactured using robust 5/16" aircraft quality aluminum elements. The PE51YA1018 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 9 dBi PE51YA1018 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		9		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: [880 MHz to 960 MHz, Heavy-Duty Yagi Antenna, 9dBi, N-female PE51YA1018](#)



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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	9	9.5				dBi
Horizontal Beam Width	60	60				Degrees
Vertical Beam Width	50	45				Degrees
VSWR Max 1.5:1	1.5:1					

### Mechanical Specifications

Housing Material Aluminum  
 Housing Plating/Color Powder Coat

#### Size

Overall Length 24.3 in [617.22 mm]  
 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 6 lbs [2.72 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]  
 ESD Protection IP55

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

### Plotted and Other Data

Notes:

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880 MHz to 960 MHz, Heavy-Duty Yagi Antenna, 9dBi, N-female 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: [880 MHz to 960 MHz, Heavy-Duty Yagi Antenna, 9dBi, N-female PE51YA1018](https://www.pasternack.com/single-antenna-880-960-mhz-9-dbi-gain-n-pe51ya1018-p.aspx)

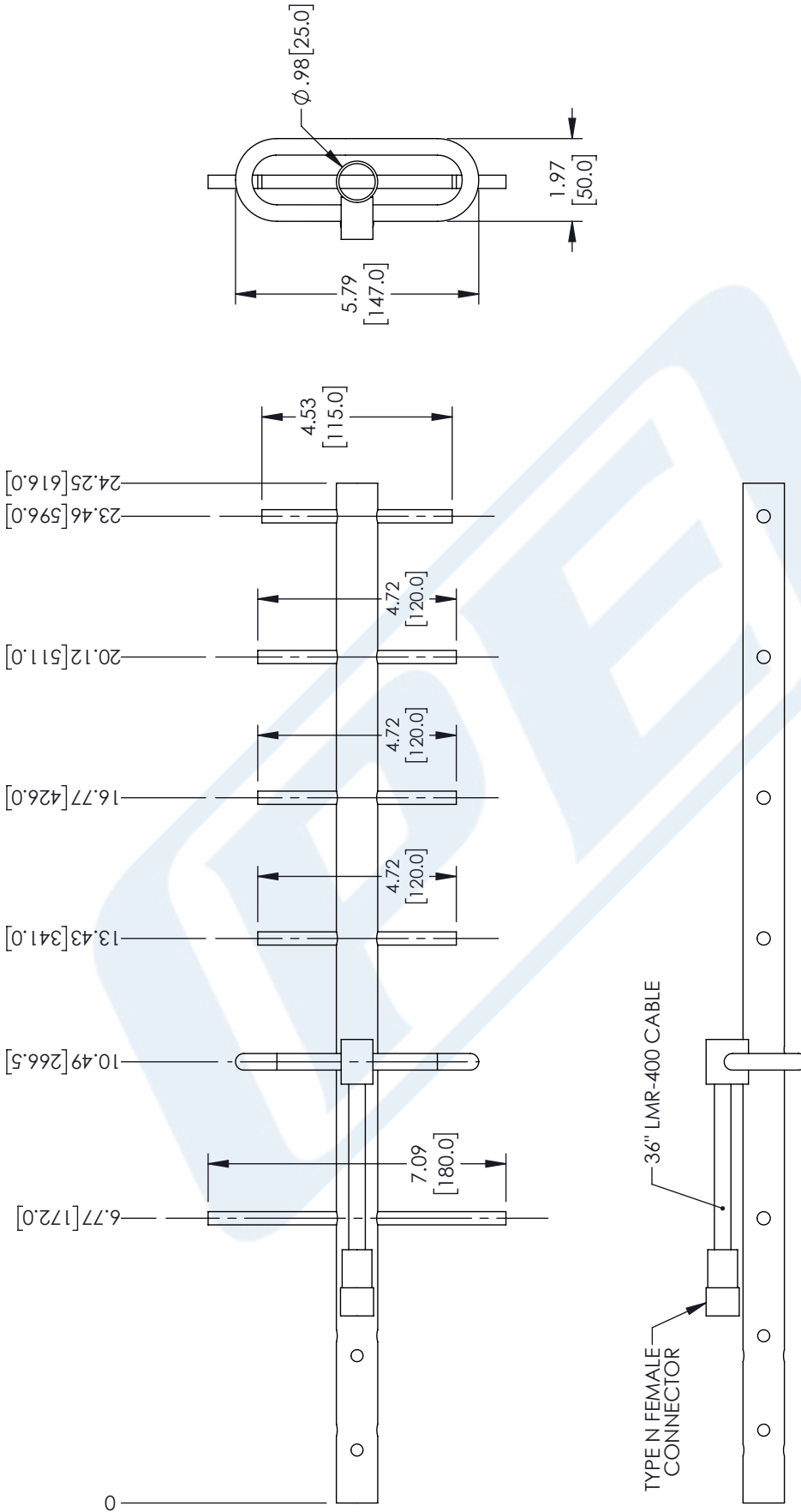
URL: <https://www.pasternack.com/single-antenna-880-960-mhz-9-dbi-gain-n-pe51ya1018-p.aspx>

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# PE51YA1018 CAD Drawing

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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	07/10/2020	KHIETPAS



**PE PASTERNAK**  
an INFINITI brand

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THIRD-ANGLE PROJECTION

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SHEET 1 OF 1

SCALE N/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]

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 PE51YA1018

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