



## YA9-9/YA9-11/YA9-13

### Yagi NLOS Antennas 860-960 MHz

The NLOS series antenna system offered by TE Connectivity is constructed of stainless steel for outstanding service life. Individual elements are welded to the main beam for permanent attachment. Welded elements give more consistent signal performance because they ensure high conductivity across the antenna surface. These antennas have high gain and good front- to-back performance to minimize external interference. They can be mounted in vertical or horizontal polarization. They come standard with an 18-inch pigtail cable terminated with an N- female connector. Other connector types are available upon request.

#### FEATURES AND BENEFITS

- High-gain directional antenna
- Available in 9, 11, and 13 dBi gain models
- Stainless steel construction, low wind loading
- Simple installation - Vertical or horizontal polarization
- 18-inch pigtail with Type N-female connector (standard)
- DC ground for lightning protection

#### APPLICATIONS

- 900 MHz ISM band applications
- Non-line-of-sight applications
- WISP CPE equipment
- Cellular applications
- Utility transmission and distribution communications

## ELECTRICAL SPECIFICATIONS

Model Name	YA9-9	YA9-11	YA9-13
Operating Frequency (MHz)	860-960		
VSWR	1.5:1		
Nominal Impedance (Ohms)	50		
Max Power - Ambient 25°C (W)	100		
Gain (dB)	9	11	13
Number of Elements	5	8	15
3 dB Beamwidth	53°	50°	30°
Front-to-Back Ratio (dB)	>14	>15	>18
Gamma Match Type	Internally matched		

## MECHANICAL SPECIFICATION

Model Name	YA9-9	YA9-11	YA9-13
Length Dimensions m(in); [ Note element width - 152 mm (6 in.) ]	0.5 (19.7)	0.9 (35.4)	1.45 (57.0)
Weight - kg (lbs.)	0.7 (1.9)	0.9 (2.4)	1.25 (3.3)
Pole Size - mm (in.)	25 to 51 (1 to 2)		
Element Construction	Welded		
Bracket Included	Included		
Mounting	Up to 2.5-inch diameter mast		

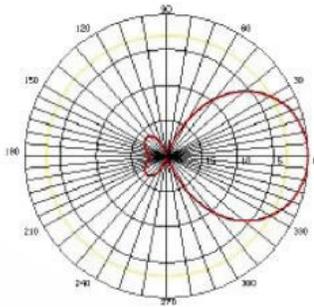
## ENVIRONMENTAL SPECIFICATION

Operating Temperature - °C (°F)	-45 to +70°C (-49 to +158°F)		
Rated Wind Velocity - m/sec (mph)	56 (125)		
Wind Loading - lbs.	YA9-9	YA9-11	YA9-13
Square Inch	19	29	45
100 MPH	4.75	7.25	11.3
125 MPH	7.42	11.3	17.6
100 MPH with ½-inch radial ice	8.0	12.0	21.0
Material Substance Compliance	RoHS		

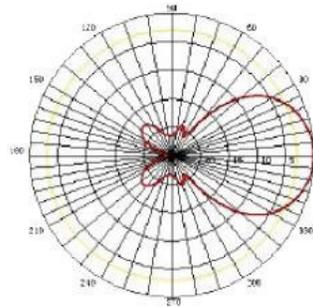
## CONFIGURATION

PART NUMBER	DESCRIPTION
YA9-9	9 dB NLOS series 900 MHz Yagi antenna with N-female connector
YA9-11	11 dB NLOS series 900 MHz Yagi antenna with N-female connector
YA9-11-RTNC-48	11 dB NLOS series 900 MHz Yagi antenna with RPTNC connector
YA9-13	13 dB NLOS series 900 MHz Yagi antenna with N-female connector

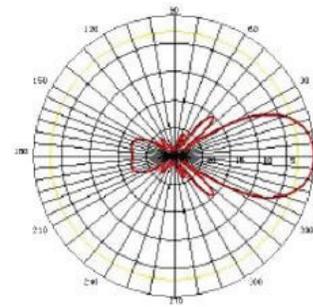
## RADIATION PATTERNS



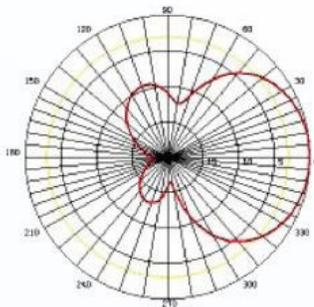
**YA9-9  
E-Plane**



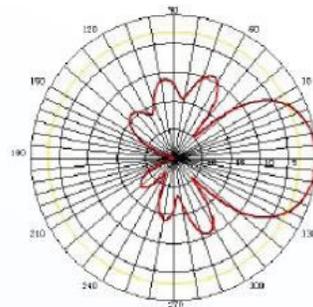
**YA9-11  
E-Plane**



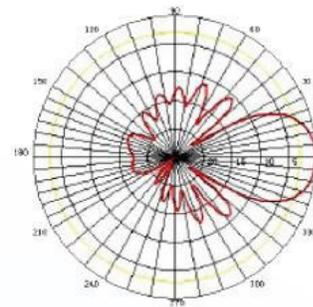
**YA9-13  
E-Plane**



**YA9-9  
H-Plane**



**YA9-11  
H-Plane**



**YA9-13  
H-Plane**

### TE TECHNICAL SUPPORT CENTER

USA:	+1 (800) 522-6752
Canada:	+1 (905) 475-6222
Mexico:	+52 (0) 55-1106-0800
Latin/S. America:	+54 (0) 11-4733-2200
Germany:	+49 (0) 6251-133-1999
UK:	+44 (0) 800-267666
France:	+33 (0) 1-3420-8686
Netherlands:	+31 (0) 73-6246-999
China:	+86 (0) 400-820-6015

### te.com

TE, TE Connectivity, TE connectivity (logo), and EVERY CONNECTION COUNTS are trademarks owned or licensed by the TE Connectivity plc family of companies. Other product names, logos, and company names mentioned herein may be trademarks of their respective owners.

While TE has made every reasonable effort to ensure the accuracy of the information in this document, TE does not guarantee that it is error-free, nor does TE make any other representation, warranty or guarantee that the information is accurate, complete, correct, reliable or current. TE reserves the right to make any adjustments to the information contained herein at any time without notice. TE EXPRESSLY DISCLAIMS ALL IMPLIED WARRANTIES REGARDING THE INFORMATION CONTAINED HEREIN, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. In no event will TE be liable for any direct, indirect, incidental, special or consequential damages arising from or related to recipient's use of the information. It is the sole responsibility of recipient of this information to verify the results of this information using their engineering and product environment. Recipient assumes any and all risks associated with the use of the information. Antenna performance may vary. TE is a component manufacturer, and customer and/or end-user is responsible for all end-use compliance and regulatory requirements.

©2025 TE Connectivity. All Rights Reserved.

05/25 Original