



YS4306

Directional Yagi Antenna 430-450 MHz

6 ELEMENT DIRECTIONAL YAGI ANTENNA

The directional YS4306 gamma matched Yagi antennas are focused on economical and high performance. This UHF yagi series has a 11.2 dBi antenna gain and operates on 430-450 MHz frequency range. It is manufactured using high strength 6061-T6 aluminum to withstand heavy ice, high wind and other harsh conditions.

FEATURES

- Every Yagi is tuned on a network analyzer for best power match and lowest VSWR.
- All Yagi antennas ship complete with a high quality cast aluminum mounting kit that includes stainless steel hardware and allows vertical or horizontal orientation during installation. (VHF models require light assembly)

APPLICATIONS

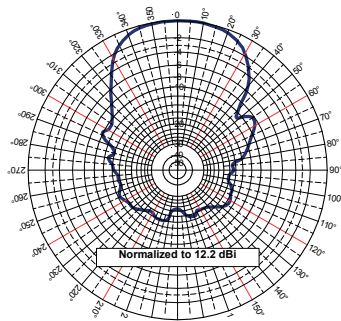
- Point to point directional and multiple point to omnidirectional outdoor antennas applications used by private organizations and government agencies around the globe.
- Typical applications include transportation such as railroad switching, remote locations reporting examples that include oil fields and weather conditions and meter data transmissions for utilities.

MECHANICAL SPECIFICATIONS

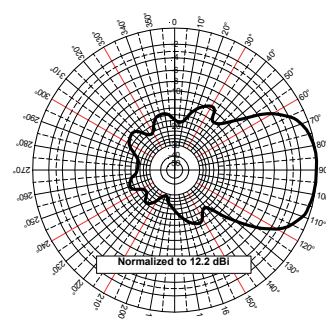
Material	Aluminum
Length	44-1/4"
Height	14-5/8"
Boom Diameter	7/8"
Weight	NA
Rated Wind Velocity	150mph (241kph)
Equivalent Flat Area	0.48115 sq. ft.
Cable	None
Termination	N-Female connector
Color	Silver Only for YS Series
Lightning Protection	Lightning Arrestor LABH350NN (Sold Separately)
Mounting	Yagi mounting Kit for 7/8" boom

ELECTRICAL SPECIFICATIONS

Frequency Range	430-460 MHz
VSWR	< 2:1
Return Loss	-10dB max
Nominal Gain	12.2 dBi
Front to Back Ratio	20dB
Maximum Power	300 W
Nominal Impedance	50Ω
Polarization	Vertical or Horizontal
Pattern	Directional
Horizontal Beamwidth (For Horizontal Polarization)	58°
Vertical Beamwidth (For Vertical Polarization)	67°
Tuning	Fixed Tune
Transmitting/Receiving	Both



Elevation Pattern (Y, Z or H-Plane) Representation Pattern



Azimuthal Pattern (X, Y or E-Plane) Representation Pattern

te.com

TE Connectivity, TE Connectivity (logo) and Every Connection Counts are trademarks. All other logos, products and/or company names referred to herein might be trademarks of their respective owners.

The information given herein, including drawings, illustrations and schematics which are intended for illustration purposes only, is believed to be reliable. However, TE Connectivity makes no warranties as to its accuracy or completeness and disclaims any liability in connection with its use. TE Connectivity's obligations shall only be as set forth in TE Connectivity's Standard Terms and Conditions of Sale for this product and in no case will TE Connectivity be liable for any incidental, indirect or consequential damages arising out of the sale, resale, use or misuse of the product. Users of TE Connectivity products should make their own evaluation to determine the suitability of each such product for the specific application.

©2021 TE Connectivity. All Rights Reserved.

12/21 Original

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