

Y(B)89612

Directional Yagi Antennas 896-970 MHz

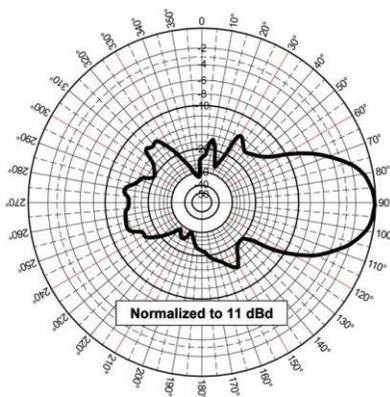
TE Connectivity's premium series directional Yagi antennas are fully gold anodized for corrosion resistance. All UHF and above frequency antennas feature internal matching to assure broad bandwidth and resistance to severe weather conditions. There is no gamma match to ice up, corrode, or detune. Our engineering team has optimized the product family for forward gain by computer analysis and then field-tested each for conformance.

FEATURES AND BENEFITS

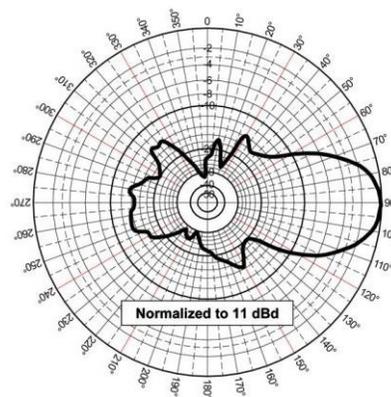
- All UHF and higher frequency antennas feature 360° welds around each element and an end-of-boom N connector feed with an internal transmission line feeding the driven element.
- Every Yagi is tuned on a network analyzer for best power match and lowest VSWR.
- All Yagi antennas ship complete with a 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 and multi-point/ 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, weather conditions and, meter data transmissions for utilities.



Vertical-to-Vertical Polarization Azimuthal Pattern (Y, Z, or E-plane)



Horizontal-to-Horizontal Polarization Azimuthal Pattern (Y, Z, or H-plane)

ELECTRICAL SPECIFICATION

Operating Frequency (MHz)	896-970
Gain (dBd)	11
Nominal Impedance (Ohms)	50
Max Power - Ambient 25°C (W)	500
Front-to-Back Ratio (dB)	20

MECHANICAL SPECIFICATION

Elements	12
Element Material	3/8" diameter solid 6061-T6 aluminum rod
Boom Element	Heat-treated 6061-T6 aluminum tube
Assembly	Fully welded
Length - cm (in.)	124.5 (49.0)
Shipping	UPS shippable
Mounting	Up to 2-inch mast
Hardware	Stainless steel
Termination Type	N-female at the end of the boom
Lightning Protection	DC grounded
Rated Wind Velocity - km/h (mph)	100 (161)

CONFIGURATION

PART NUMBER	FREQUENCY RANGE	COLOR
Y89612	896-970 MHz	Gold
YB89612	896-970 MHz	Black

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