

## Y(B)8966

### Directional Yagi Antennas 896-970 MHz

Laird Connectivity premium series directional Yagi antennas are either fully gold anodized or black powdercoat for corrosion resistance. These 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 staff optimized this product family for forward gain by computer analysis and then field-tested each for conformance.

#### FEATURES AND BENEFITS

- These 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

#### APPLICATIONS

- Point-to-point and multi-point/omnidirectional outdoor antenna applications used by private organizations and governments worldwide
- Transportation such as railroad switching
- Remote locations such as oil fields
- Weather conditions
- Meter data transmissions for utilities

#### ELECTRICAL SPECIFICATION

Model Name	Y(B)8966
Operating Frequency (MHz)	896-970
VSWR	<2:1
Nominal Gain (dBd)	9
Front-to-Back Ratio (dBd)	20
Max Power - Ambient 25°C (W)	300
Nominal Impedance (Ohms)	50
Polarization	Vertical or horizontal
Pattern	Directional
Horizontal Plane 3 dB Beamwidth	56°
Vertical Plane 3 dB Beamwidth	52°
Tuning	Fixed

## ELECTRICAL SPECIFICATION

Transmitting/Receiving	Both
Gamma Match Type	Internally Matched

## MECHANICAL SPECIFICATION

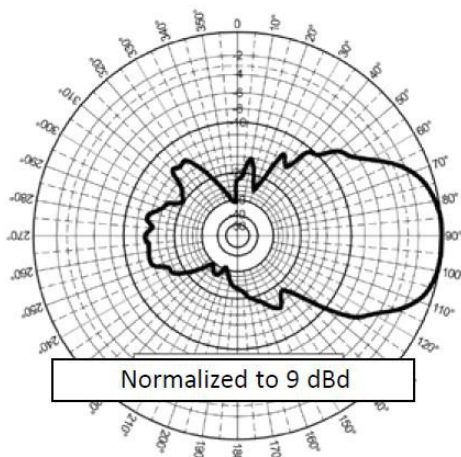
Dimensions - L x H - cm (inches)	70.33 x 17.15 (27.69 x 6.75)
Boom Diameter - cm (inches)	26.68 (0.875)
Weight - kg (lbs.)	1.77 (3.9)
Cable Type	None
Connector	N-female
Color	Gold or black
Lightning Protection	Lightning arrestor (LABH350NN - sold separately)
Element Construction	Welded
Mounting (included)	Heavy duty cast aluminum bracket accommodates up to 2 ½" mast

## ENVIRONMENT SPECIFICATION

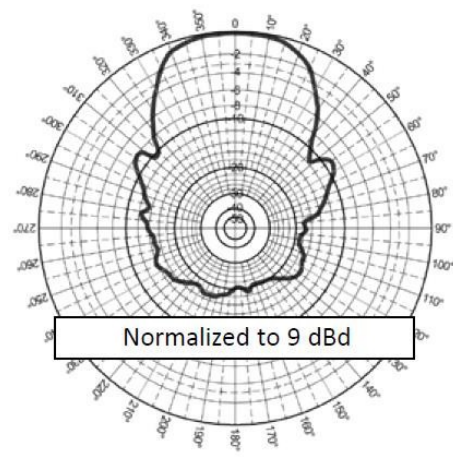
RATED WIND VELOCITY - KM/HR (MPH)	241 (150)
RATED WIND VELOCITY (W/ 0.5" RADIAL ICE) - KM/HR (MPH)	130 (80)
EQUIVALENT FLAT AREA - SQ. KM (SQ. FT.)	2.3151 (0.2492)

## CONFIGURATION

PART NUMBER	FREQUENCY RANGE	COLOR
Y8966	896-970 MHz	Gold
YB8966	896-970 MHz	Black



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



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

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