

FIBERGLASS OMNIDIRECTIONAL ANTENNAS

FG4700

FIBERGLASS BASE STATION ANTENNAS FEATURE INDUSTRY-LEADING DESIGN COMPONENTS THAT PERFORM IN EXTREME CONDITIONS

Laird Technolgies' fiberglass base station antennas are collinear designs enclosed in a high density fiberglass, which is covered with a protective ultraviolet inhibiting coating.

The radiating elements are made from high efficiency copper and are carefully phased to provide maximum gain in the horizontal plane. The mounting sleeves are tuned to eliminate RF currents from the transmission line resulting in a cold sleeve allowing great freedom in mounting. This high quality and well-focused beam provides the highest gain and best efficiency.

FEATURES

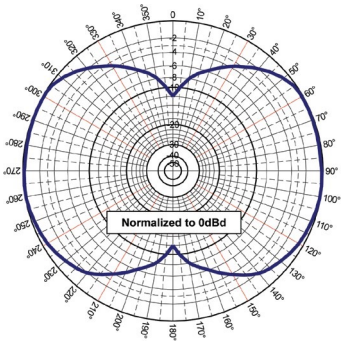
- Every FG fiberglass base antenna is tested on a network analyzer before shipping to assure the best performance
- Special UV Treated - stands up to the sun
- Durable gold anodized sleeve and cap with N Female connector
- Custom tuning available FedEx / UPS Shippable

MARKETS

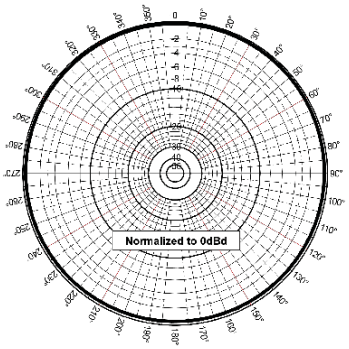
- Omnidirectional (circular) outdoor antenna applications used by private organizations and government agencies around the globe.
- Typical applications include land based and marine radio and data transmissions for public safety agencies, commercial organizations, and the military.

MECHANICAL SPECIFICATION	
Height	20
Diameter	1 3/8
Weight	.85 lbs
Rated Wind Velocity	125 mph (210 kph)
Rated Wind Velocity (with 0.5 radial ice)	85 mph (137 kph)
Equivalent Flat Plate Area	0.2274 sq. ft.
Mounting Information	FM2 Mounting Kit (Sold separately)

ELECTRICAL SPECIFICATION	
Frequency Range	470 490 MHz
Bandwidth	20 MHz, VSRW < 1.5:1, 36 MHz, VSRW < 2:1
Nominal Gain	0 dBd
Maximum Power	200 W
Nominal Impedance	50
Polarization	Vertical
Pattern	Omnidirectional
Half-Power Beamwidth (Elevation x Azimuth)	70 x 360
Lightning Protection	DC Ground
Termination	N Female connector



Elevation Pattern (Y, Z, or H-plane)



Azimuthal Pattern (Y, Z, or E-plane)

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