



Fiberglass base station antennas feature industry leading design components that perform in extreme conditions.

The FG4505W incorporates a collinear design that is enclosed in high density fiberglass, which is covered with a protective ultraviolet inhibiting coating. The radiating elements 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 that allows for greater freedom in mounting. The antenna’s high quality and well-focused beam provides the best efficiency with highest gain.

### FEATURES AND BENEFITS

- High gain 7 dBi
- Every antenna is tested on a network analyzer before shipping to ensure the best performance
- Custom UV protection coating
- Durable gold anodized sleeve and cap with N-female connector

#### ELECTRICAL SPECIFICATIONS

Frequency Range (MHz)	450 – 470
VSWR	2.0:1
Peak Gain (dBi)	7
Nominal Impedance (Ohms)	50
Max Power - Ambient 25°C (W)	100
Polarization	Vertical
Elevation Beamwidth at Half-Power (Deg)	34
Azimuth Beamwidth at Half-Power (Deg)	360
Pattern	Omnidirectional

#### MECHANICAL SPECIFICATIONS

Dimensions – diameter x height – cm (in.)	3.33 x 1903.50 (1.31 x 765)
Weight – kg (lbs.)	1.06 (2.34)
Radome Material	UV Treated Fiberglass
Color	White radome/Gold sleeve

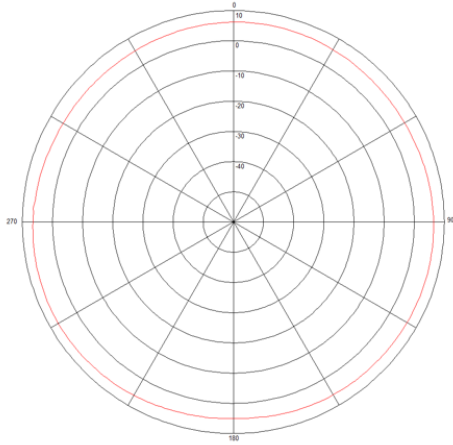
#### ENVIRONMENTAL SPECIFICATIONS

Operating Environment (Indoor or Outdoor)	Outdoor
Operating and Storage Temperature – °C (°F)	-35 to 80 (-31 to 176)
Wind Operational – km/hr (mph)	200 (125)

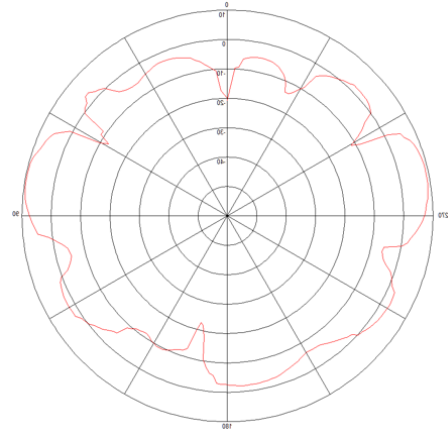
#### CONFIGURATION

PART NUMBER	CABLE LENGTH	CONNECTOR	MOUNTING
FG4505W	N/A	N-Female	FM2 Optional

RADIATION PATTERNS



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



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

**Americas:** +1.847 839.6925  
IAS-AmericasSales@lairdtech.com  
**Europe:** +44.1628.858941  
IAS-EUSales@lairdtech.com  
**Asia:** IAS-AsiaSales@lairdtech.com  
**Middle East and Africa:** +44.1628.858941  
IAS-MEASales@lairdtech.com  
<https://connectivity.lairdtech.com>



Laird warrants to the original end user customer of its products that its products are free from defects in material and workmanship. Subject to conditions and limitations Laird will, at its option, either repair or replace any part of its products that prove defective because of improper workmanship or materials. This limited warranty is in force for the useful lifetime of the original end product into which the Laird product is installed. Useful lifetime of the original end product may vary but is not to exceed five (5) years from the original date of the end product purchase.

Any information furnished by Laird Inc. and its agents is believed to be accurate and reliable. All specifications are subject to change without notice. Responsibility for the use and application of Laird materials rests with the end user, since Laird and its agents cannot be aware of all potential uses. Laird makes no warranties as to the fitness, merchantability or suitability of any Laird materials or products for any specific or general uses. Laird shall not be liable for incidental or consequential damages of any kind. All Laird products are sold pursuant to the Laird Terms and Conditions of sale in effect from time to time, a copy of which will be furnished upon request.

© Copyright 2018 Laird Inc. All Rights Reserved. Laird, Laird Technologies, the Laird Logo, and other marks are trademarks or registered trademarks of Laird Inc. or an affiliate company thereof. Other product or service names may be the property of third parties. Nothing herein provides a license under any Laird or any third party intellectual property rights.

