



## FG8963

### Omnidirectional Antenna 896-940 MHz

Laird's 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 AND BENEFITS

- Highly stable PC board matching network
- Superior quality design
- Special UV treated radome
- N-female industry standard connector
- 100% tested on a network analyzer

#### ELECTRICAL SPECIFICATIONS

Operating Frequency (MHz)	896-940
VSWR - Max	<2.0:1
Gain (dBi)	5
Nominal Impedance (Ohms)	50
Max Power - Ambient 25°C (W)	100
Polarization	Vertical
Pattern	Omnidirectional
Half-Power Beamwidth (Elevation ° x Azimuth °)	70-360

#### MECHANICAL SPECIFICATIONS

Dimensions - diameter x height - cm (inches)	3.33 x 60.33 (1.31 x 23.75)
Weight - kg (lbs.)	<0.454 (< 1.0)
Mounting Information	FM2 Mounting Kit (sold separately)
Lightning Protection	Lightning Arrestor - LABH350NN (sold separately)

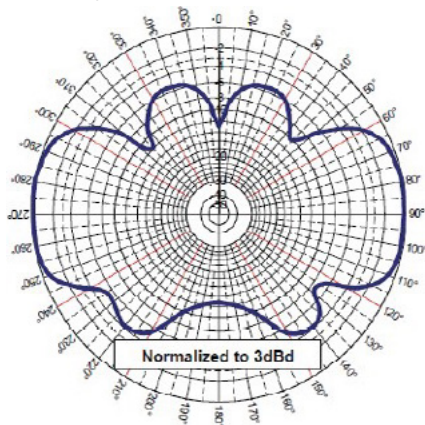
## ENVIRONMENTAL SPECIFICATIONS

Operating Temperature - °C (°F)	-40°C to +85°C
Rated Wind Velocity - km/hr (mph)	210 (125)
Rated Wind Velocity (with 0.5 in. radial ice) - km/hr (mph)	137 (85)
Lateral Thrust @ 125 mph - kg (lb.)	26 (57)
Wind Resistance - sq. kg (sq. ft.)	0.02008 (0.2161)
Material Substance Compliance	RoHS

## CONFIGURATION

PART NUMBER	CONNECTOR
FG8963	N-female

### ELEVATION PATTERN (Y, Z OR H-PLANE)



Lightning Arrestor  
LABH350NN  
(Sold Separately)



FM2 Mounting Kit (Sold separately)

### 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

### te.com

TE, and TE connectivity (logo) are trademarks owned or licensed by the TE Connectivity Ltd. family of companies. 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.

TE Connectivity 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 TE Connectivity 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 TE Connectivity product is installed. Useful lifetime of the original end product may vary but is not warranted to exceed one (1) year from the original date of the end product purchase.

©2022 TE Connectivity. All Rights Reserved.

08/22 Original