



FG4603

Omnidirectional Antenna 460-470 MHz

The Laird FG4603 omnidirectional base station antenna 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-performance tri-linear design
- Special UV-treated radome; resists sun damage
- Easy installation with optional FM2
- N-Female industry standard connector
- 100% tested on a network analyzer

ELECTRICAL SPECIFICATIONS

Operating Frequency (MHz)	460-470
VSWR - Max	<2:1
Gain (dBi)	5
Nominal Impedance (Ohms)	50
Max Power - Ambient 25°C (W)	100
Polarization	Vertical
Pattern	Omnidirectional

MECHANICAL SPECIFICATIONS

Dimensions - diameter x height - cm (inches)	3.33 x 111.76 (1.31 x 44.0)
Weight - kg (lbs.)	1.59 (3.5)
Lightning Protection	Lightning Arrestor - LABH350NN (Sold separately)

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature - °C (°F)	
Storage Temperature - °C (°F)	
Rated Wind Velocity - km/hr (mph)	210 (125)
Rated Wind Velocity (with 0.5" radial ice) - km/hr (mph)	137 (85)
Lateral Thrust @ 1.25 mph wind velocity - kg (lbs.)	26 (57)
Equivalent Flat Plane Area - sq. km (sq. ft.)	0.6959
Mounting Information	FM2 Mounting Kit (sold separately)
Material Substance Compliance	RoHS

CONFIGURATION

ENVIRONMENTAL SPECIFICATIONS

FG4603	N-Female
--------	----------



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 Connectivity, TE Connectivity (logo) and Every Connection Counts are trademarks. 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 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 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 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.

©2021 TE Connectivity. All Rights Reserved.

11/21 Original

