



## OMNI-DIRECTIONAL ANTENNAS FG4503 (450 - 460 MHz)

The FG4503 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

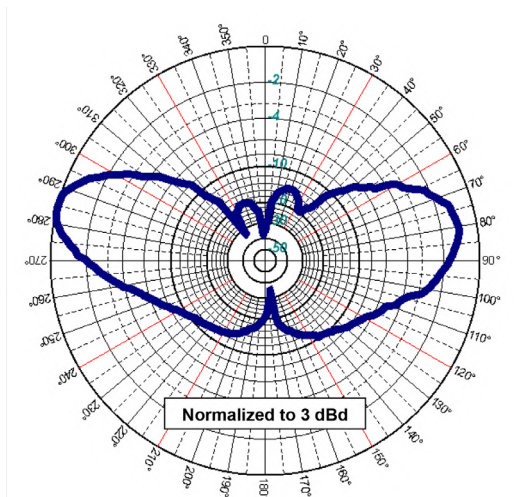
- High Performance collinear design
- Easy installation /w optional FM2
- Special UV treated radome, resists sun damage
- N Female industry standard connector
- 100% tested on a network analyzer

### ELECTRICAL SPECIFICATIONS

PARAMETER	SPECIFICATIONS
Frequency Range	450-460 MHz
VSWR	< 2:1 Max
Nominal Gain	3 dBd
Maximum Power	100 W
Nominal Impedance	50Ω
Polarization	Vertical
Pattern	Omni-Directional
Half-Power Beamwidth	40° x 360° (Elevation° x Azimuth°)
Coaxial Cable Length & Type	None
Termination	Female connector
Lightning Protection	Lightning Arrestor LABH350NN (Sold Separately)

## MECHANICAL SPECIFICATIONS

PARAMETER	SPECIFICATIONS
Height	57 - 1/2"
Diameter	1.310"
Weight	< 3 lbs
Rated Wind Velocity	125mph (210kph)
Rated Wind Velocity (with 0.5" radial ice)	85mph (137kph)
Equivalent Flat Plate Area in Sq. Feet	0.5231 Sq. ft
Mounting Information	FM2 Mounting Kit (Sold separately)



Elevation Pattern (Y, Z or H-plane)



### 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.

©2023 TE Connectivity. All Rights Reserved.

03/23 Original

### 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