



FG4500

Fiberglass Omnidirectional Antennas 450-470 MHz

TE Connectivity'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

- 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

ELECTRICAL SPECIFICATIONS

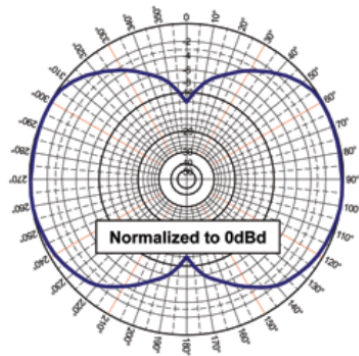
Operating Frequency (MHz)	450-470
VSWR	<1.5:1 (20 MHz Bandwidth), <2.0:1 (36 MHz Bandwidth)
Gain (dBi)	2.15
Nominal Impedance (Ohms)	50
Max Power - Ambient 25°C (W)	100
Polarization	Vertical
Pattern	Omnidirectional
Half-Power Beamwidth (Elevation°/Azimuthal°)	70°/360°
Connector	N-Female connector

MECHANICAL SPECIFICATIONS

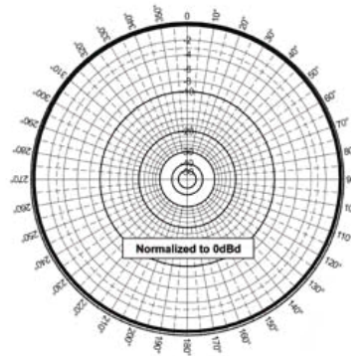
Dimensions - diameter x height - mm (inches)	33.3 x 510 (1.31 x 20.1)
Weight - kg (lbs.)	0.42 (0.92)
Operating Temperature, oC (oF)	-30° to +85° (-22o to 185o)
Rated Wind Velocity - kph (mph)	210 (125)
Rated Wind Velocity (with 0.5" radial ice) - kph (mph)	137 (85)
Equivalent Flat Plate Area - sq. meter (sq. ft.)	0.069 (0.2274)
Mounting Information	FM2 Mounting Kit (Sold separately)
Lightning Protection	DC ground

RADIATION PATTERNS

460 MHz



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



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

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, TE Connectivity, TE connectivity (logo), and EVERY CONNECTION COUNTS are trademarks owned or licensed by the TE Connectivity plc family of companies. Other product names, logos, and company names mentioned herein may be trademarks of their respective owners.

While TE has made every reasonable effort to ensure the accuracy of the information in this document, TE does not guarantee that it is error-free, nor does TE make any other representation, warranty or guarantee that the information is accurate, complete, correct, reliable or current. TE reserves the right to make any adjustments to the information contained herein at any time without notice. TE EXPRESSLY DISCLAIMS ALL IMPLIED WARRANTIES REGARDING THE INFORMATION CONTAINED HEREIN, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. In no event will TE be liable for any direct, indirect, incidental, special or consequential damages arising from or related to recipient's use of the information. It is the sole responsibility of recipient of this information to verify the results of this information using their engineering and product environment. Recipient assumes any and all risks associated with the use of the information. Antenna performance may vary. TE is a component manufacturer, and customer and/or end-user is responsible for all end-use compliance and regulatory requirements.

©2025 TE Connectivity. All Rights Reserved.

05/25 Original