TELEWAVE, INC.®

118-138 MHz

ANT125F2 SERIES

FIBERGLASS COLLINEAR ANTENNA 2.5 dBd

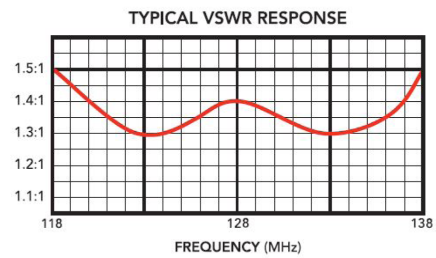
The Telewave Collinear line of antennas are rugged omnidirectional antennas suited for most environments, see the exact model specifications below.

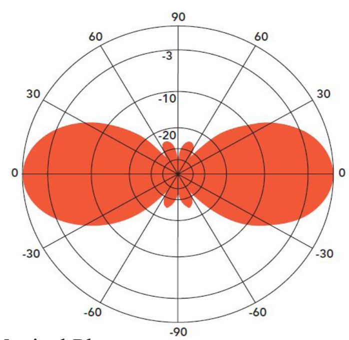
These antennas are constructed with brass and copper elements that are soldered together; producing both a DC path to ground and preventing internally produced intermodulation products.

The "Cool Blue" fiberglass radome provides maximum protection from corrosive gases, ultraviolet radiation, icing, acid rain, and wind-blown abrasives. Intrusion and water protection is equivalent to an IP24 rating.

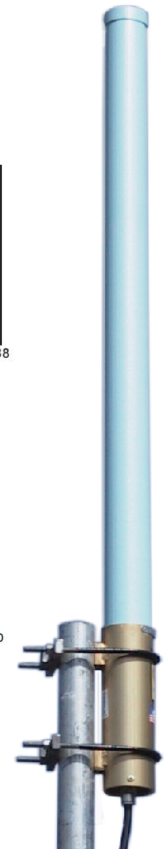
When ordering, specify all TX and RX frequencies that will be used on the antenna. Telewave's support can assist with any special mounting needs.

Part Number	Connector	Jumper	Clamp Kit (Included)	Mounting
ANT125F2	N-F	24" RG213 M-M	ANTC485	Clamps Bottom (Normal)
ANT125F2-I	N-F	24" RG213 M-M	ANTC485	Clamps Top (Inverted)
ANT125F2-DIN	DIN-F	None	ANTC485	Clamps Bottom (Normal)
ANT125F2-IDIN	DIN-F	None	ANTC485	Clamps Top (Inverted)





Vertical Plane
Gain = 2.5 dBd
Antenna Patttern available on website



(Mast not included)

SPECIFICATIONS

Frequency (continuous)	118 - 138 MHz	**Tower weight (antenna + clamps)**	16 lbs.
Gain	2.5 dBd	**Wind rating / with 0.5" ice**	200 / 150 MPH
Power rating (Type.)	500 watts	**Maximum exposed area**	1.6 ft.²
Impedance	50 ohms	**Lateral thrust at 100 MPH**	62 lbs.
Input VSWR	1.5:1 or less	**Shipping weight**	20 lbs.
Pattern	Omnidirectional	**Full antenna dimensions (L x D) in (cm)**	77 x 2.75 (195.58 x 7)
Vertical beamwidth	38°	**Base pipe dimensions (L x D) in (cm)** **Radome dimensions (L x D) in (cm)**	11.5 x 2.75 (29.21 x 7) 65.5 x 2.5 (166.37 x 6.35)
Temperature range	-58 to +140 °F -50 to +60 °C	**Shipping dimensions (L X W X H) in (cm)**	84 x 7 x 5 (213.36 x 17.78 x 12.7)
Coastal / Salt Air Suitable	No		

TELEWAVE, INC.®

INSTALLATION GUIDE

FOR COLLINEAR ANTENNAS MODELS: *F2*

WARNING:

For your safety, do not install any antenna near power lines and carefully follow all installation instructions. Always use safety devices for tower climbing. Ensure that the tower structure is well grounded for lightning protection.

If the antenna falls toward or contacts any overhead wires, IMMEDIATELY LET GO and stay away. Contact the utility company for assistance.

Figure 1: ANTC485 Clamp Kit

Clamp Kit Contents (Figure 1):

(2) Clamp Plates
(2) 3/8”-16 Stainless U-Bolts
(4) Hex Nuts
(4) Lock Washers
(1) Tube of Anti-Seize Compound

IMPORTANT - BEFORE ASSEMBLING AND MOUNTING

Both clamps must be properly installed and spaced to prevent antenna rotation from wind load. Make sure you have all parts ready prior to installation, see on the right.

F2-SERIES DIMENSIONS

Ferrule (L x D) in (cm): 11.5 x 2.75 (29.21 x 7)
Clamp Spacing (L) in (cm): 7.5 (19)

MOUNTING INSTRUCTIONS

1. The welded mounting slots are intended to be placed against the support structure when used with the supplied clamp set. When using any other clamp set, the mounting slots should be turned to one side, out of contact with the support.

2. Apply anti-seize compound to the ends of each u-bolt. Place a loosly assembled clamp over the top of the mast. Feed the antenna base ferrule down through the clamp until aligned with the upper attachment point. Tighten down the hex nuts and straighten the antenna until clamped into a vertical position.

3. Attach and secure the lower antenna clamp with the supplied hex nuts and lock washers, to provide reasonable pressure to the support structure and antenna base ferrule.

4. Connect RF feed cable terminated with Type-N or 7-16 DIN as required to antenna input connector. Secure all cables with UV-Resistant cable ties.

5. Be sure to properly seal the input connector with waterproof tape or other sealing material. Refer to Telewave TWDS-0502 for a recommended method of connector sealing.

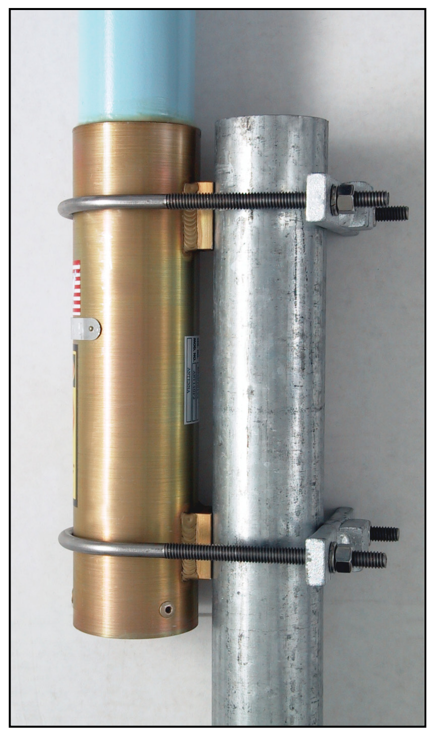


Figure 2: Typical Mounting Configuration