



TELEX COMMUNICATIONS, INC.

8601 East Cornhusker Highway, P.O. Box 5579, Lincoln NE 68505

ALP-600  
UHF Log Periodic Antenna

Order No. 878896

801542

# INSTRUCTION MANUAL

## General Description

The ALP-600 is a broadband bi-directional log periodic antenna. It will receive any frequency from 520 to 760 MHz. The "gain" of this antenna enables it to receive signals from a greater distance than a typical "whip" type antenna.

Log Periodic Antennas are also directional and will have the best reception when pointed at the transmitter. This yields the benefit of less interference from unwanted signals coming from the back or side of the antenna.

## SPECIFICATIONS (average)

Gain .....	1.6 dBd
1/2 Power Beam Width .....	120°
Front-to-Back Ratio.....	19.4 dB
SWR.....	1.5:1
Input Impedance .....	50 ohm
Input Connector .....	TNC
Size.....	12" (304.8mm) x 17" (431.8mm)

## Antenna Placement

The ALP-600 should be placed in a position that has a clear view of the transmitter(s) for best results. Obstructions such as walls, ceilings, and metal objects will reduce range and performance.

## Antenna Mounting

The ALP-600 is supplied with hardware for tubular clamping. It should always be mounted vertically with the ground and perpendicular to the transmitter(s), See Figure 1.

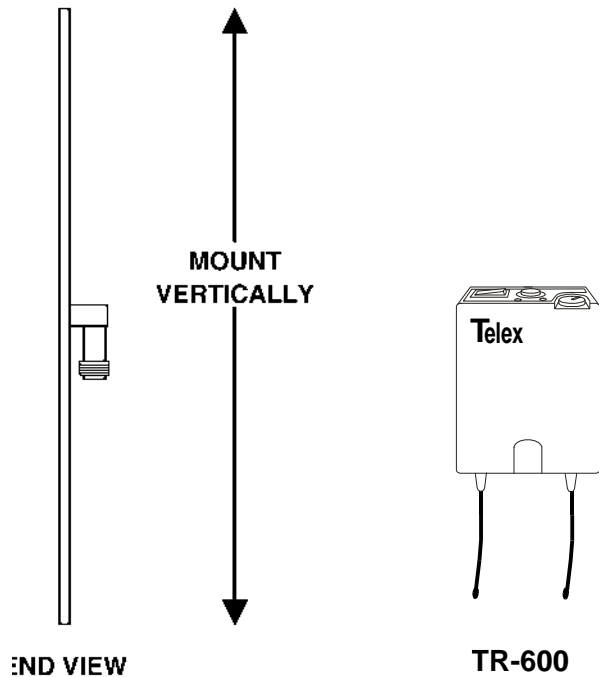
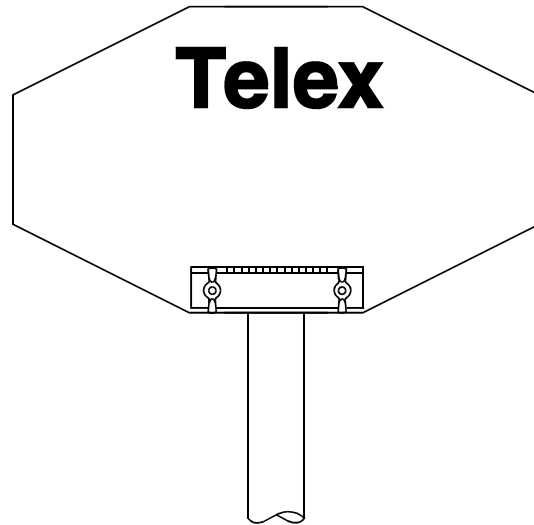
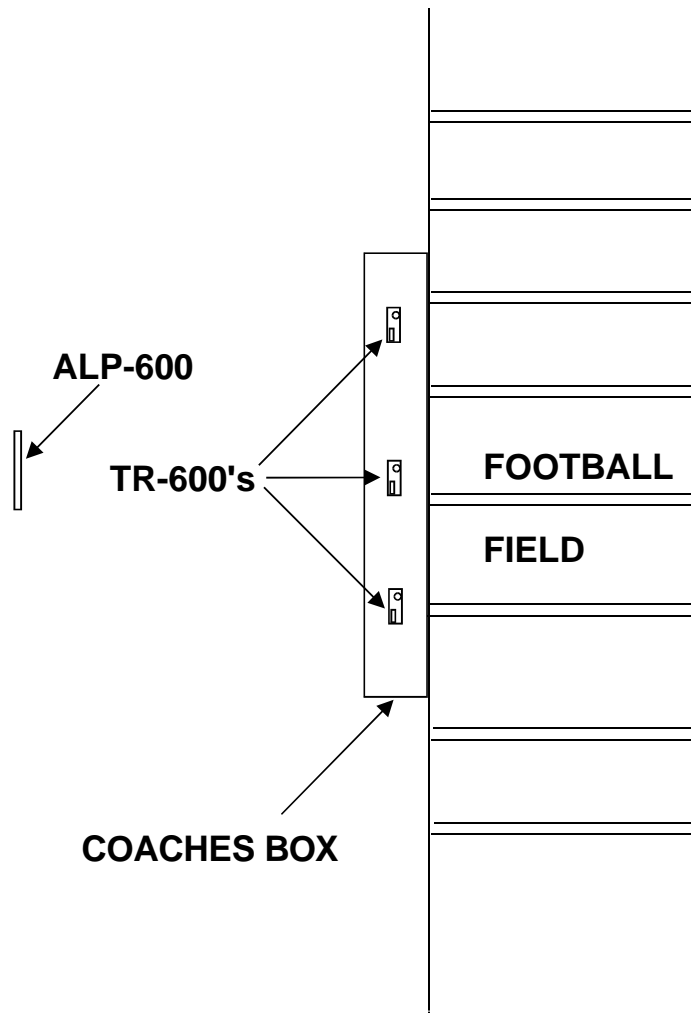


Figure 1

## Mounting Suggestions



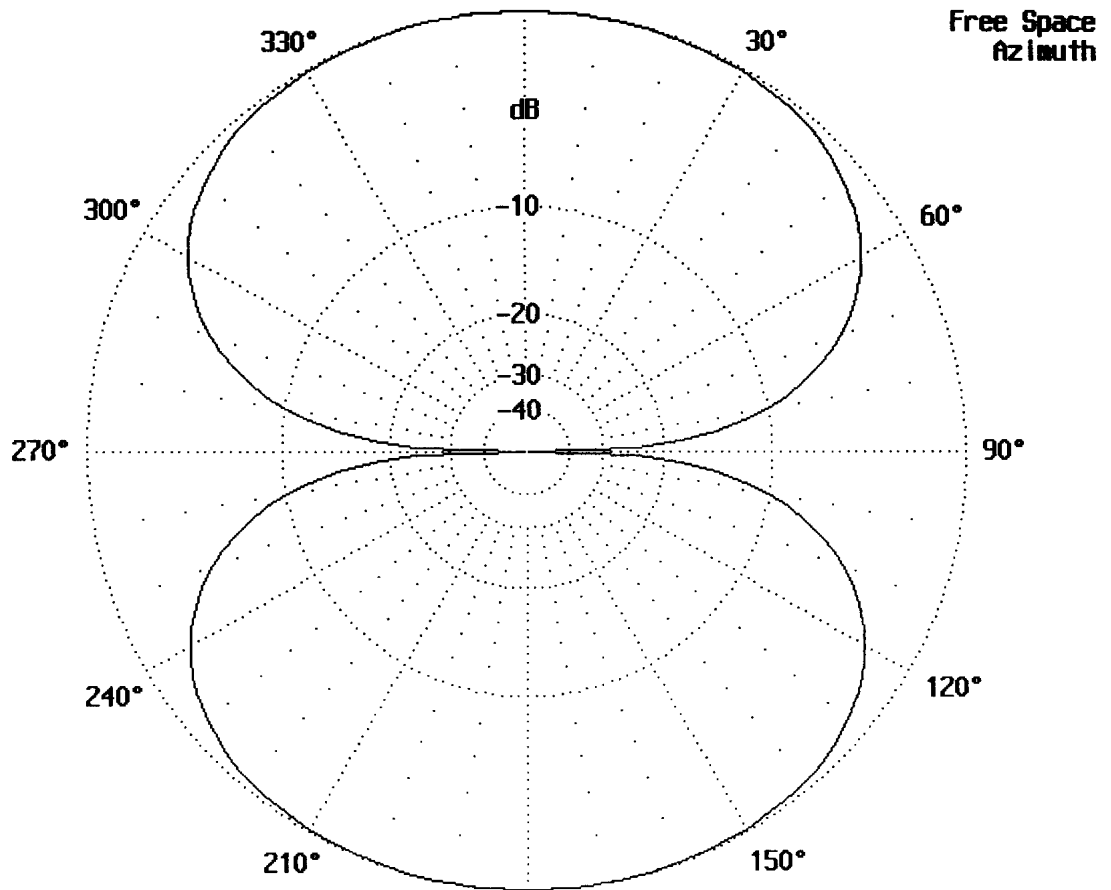
**Figure 2**  
**ALP-600 Antenna Mast**



Refer to Figure 4 for typical antenna pattern.

**Figure 3**  
**Top View of Field**

**ALP-600  
Antenna Pattern**



**Figure 4  
Typical ALP-600 UHF Bi-Directional Antenna Pattern**

## Clamps

Clamps are provided for mounting the ALP-600 onto the antenna mast. Attach the clamps with the hardware supplied. See Figure 5.

Do not clamp the antenna to horizontal metal objects that extend past the clamp. This will detune the antenna and cause loss of range and performance.

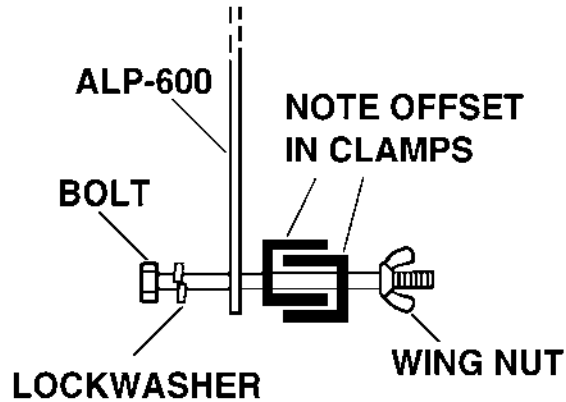


Figure 5  
Clamps

## Coax Cable

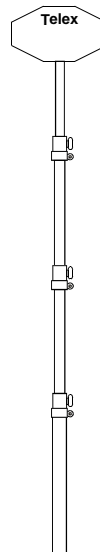
For best results, it is recommended that cable losses be kept under 4 dB. (Every 3 dB of signal loss results in a system operating distance reduction of 25%).

A 10 ft coax cable (PN 690419) is included with the ALP-600.

## ACCESSORIES

### Special Low Loss Antenna Cables with TNC Connects

Length	Part No.
10 Ft. (3 meters)	690419
25 Ft. (7.6 meters)	71151-029
50 Ft. (15 meters)	71151-050
75 Ft. (23 meters)	71151-075
100 Ft. (30 meters)	71151-100



### Antenna Mast

Four sections, clear anodized aluminum mast with extended length of 90 1/4".

**Order No. 878897-1**

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