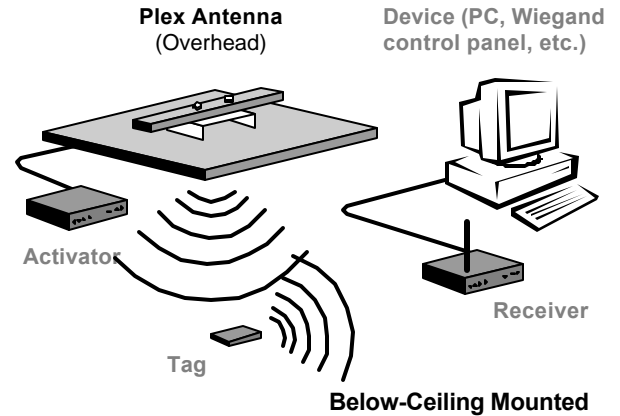
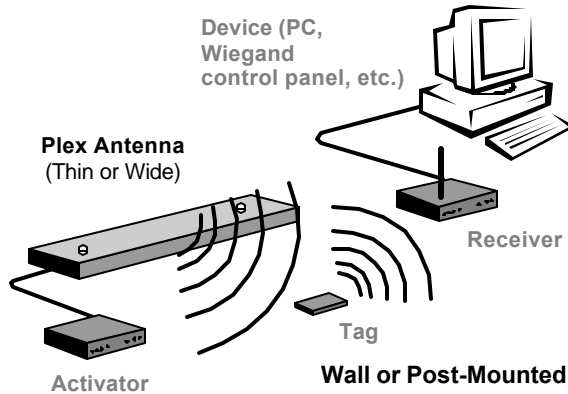




## Plex Antenna

### Installation Overview



## 1

### Required Materials



Have the following materials on hand for the installation of the Plex Antenna:

- RG-58/U coaxial cable with 50 ohm impedance (nominal), solid copper center conductor, 55% tinned copper braid or better, 100% shield coverage (i.e. Belden 9310) of sufficient length to reach the Activator. **The maximum recommended cable length is 50 feet.**
- Two three-piece crimp type male BNC connectors
- Three-blade rotary coaxial cable stripper
- Step ladder for positioning the Plex Antenna above the door or ceiling




To ensure proper system operation, **do not** substitute antenna kit components.

## 2

### Installation Considerations

Determine the approximate installation site of the Plex Antenna and its associated Activators. Use the following guidelines:

- The Activator should be located no more than **50 feet** (cable length) from the Plex Antenna.
-  Choose the mounting position best suited for the desired coverage area and application. (See diagram below)
- The Plex Antenna's field is affected by metal; therefore, the Antenna should be located at least **4 inches** from any metal including metal studs.

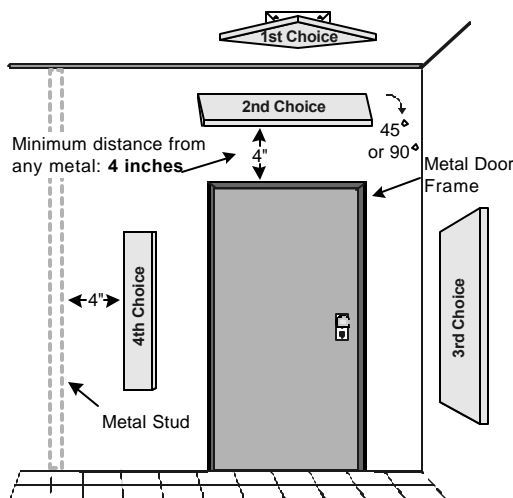


Before permanently installing the Plex Antenna, lay out and test the entire ActiveTag system.



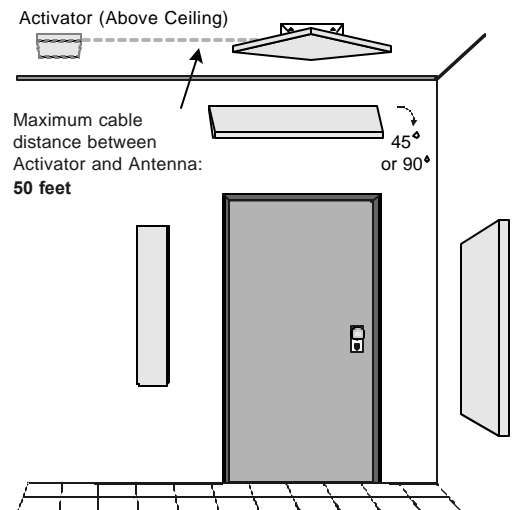
Check with all local inspection codes, including building, fire and electrical, to ensure compliance of the Plex Antenna installation.

### Plex Antenna Placement



Refer to the Configuration Guide for preferred antenna placement of asset and personnel tracking applications.

### Activator Placement



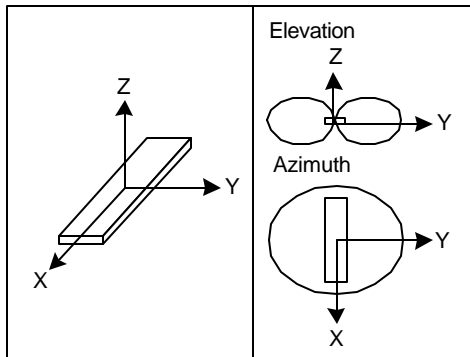


## Plex Antenna

- Orient the Plex Antenna so that the radiation field provides maximum coverage of the desired area. Keep in mind what will be tracked with the antenna - personnel will carry Tags in their shirt or pants pocket, Tags on laptops will be carried closer to the floor.

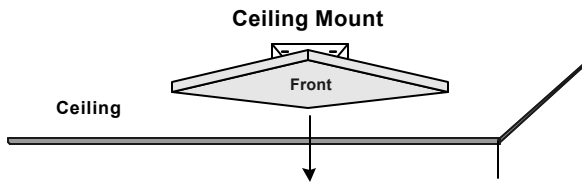
Type	Range	Model
Thin	6 to 8 feet with Personnel Tag (Mounted on wall - flat or angled)	AT-132-A-PT
Wide	2 to 3 feet above floor with Asset Tag (Mounted above door)	AT-132-A-PW
	6 to 8 feet with a Vehicle Tag (Mounted on post)	
Overhead	6 to 8 feet with Asset Tag (Mounted 3 inches below ceiling)	AT-132-A-PO
	8 to 10 feet with Personnel Tag (Mounted 3 inches below ceiling)	

### Plex Antenna Radiation Patterns



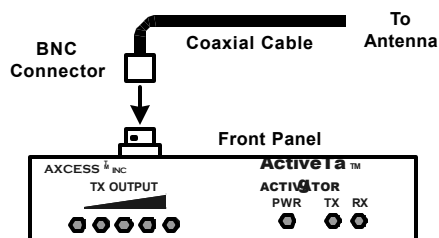
- Test each position. Tilting the Plex Antenna may also improve performance.

If mounting the Plex Antenna on the ceiling, mount it flat with the front of the antenna facing the floor.

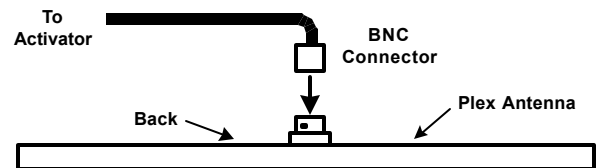


## 3 Installing the Plex Antenna

- Cut coaxial cable with sufficient length to connect the Plex Antenna to the Activator.
- Attach BNC connectors to both ends of the cable.
- Connect one end of the cable to the BNC antenna connector on the Activator.



- Connect the other end of the cable to the BNC connector on the back of the Plex Antenna.



- Cycle the power of the Activator in order for the antenna's auto-tune feature to function.

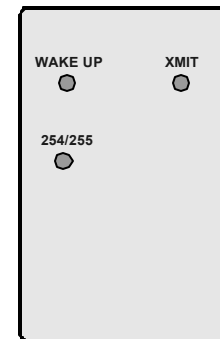


Check the strength of the TX Output LEDs located on the front panel. A minimum of 4 lit LEDs is desired.



- Position the antenna in its approximate final location - but **do not** permanently install it at this time. Have someone hold the antenna in various positions until the desired coverage is achieved.

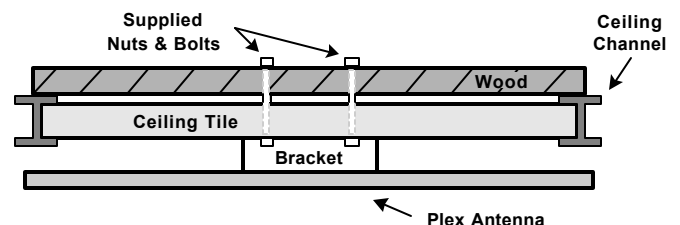
- Test the system by positioning the LED Test Tag at strategic points to ensure complete coverage including mounting it to assets. It will light up and flash when it is within the field.



Lit LED	Condition
WAKE UP	Tag is in a strong activation field
XMIT	Tag data is being transmitted
254/255	Activation field is not optimized or the Activator ID is not clear

- Permanently mount the Plex Antenna.

- Wall or Post-Mount:** use the pre-drilled mounting holes and supplied nylon nuts and bolts.
- Below Ceiling-Mount:** secure the piece of fire resistant wood to the top of the bracket using the supplied metal nuts and bolts.



Refer to the **Configuration Guide** for detailed placement and mounting instructions and options.