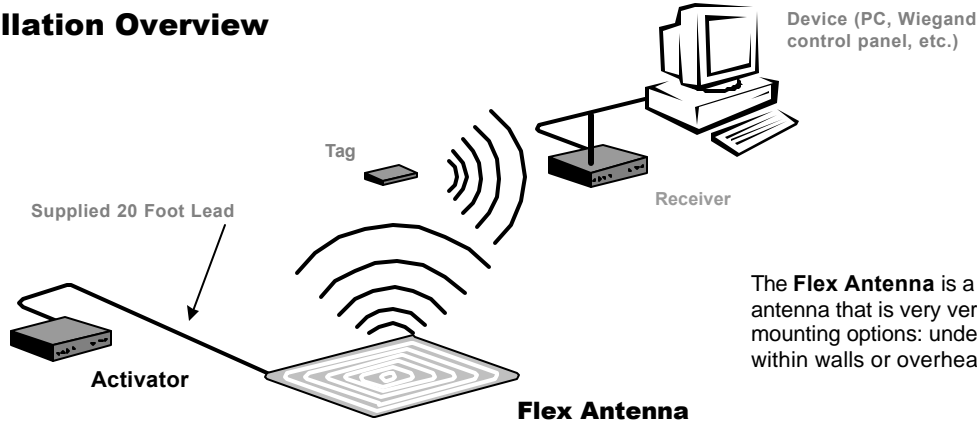




Flex Antenna

Installation Overview



The **Flex Antenna** is a thin and flexible activation antenna that is very versatile and has numerous mounting options: under carpet, behind pictures, within walls or overhead.

FLEX ANTENNA

1

Required Materials



Have the following materials on hand for the installation of the Flex 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 Flex 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 Flex Antenna and its associated Activators. Use the following guidelines:

- The Activator should be located no more than **50 feet** (cable length) from the Flex Antenna.



Choose the mounting position best suited for the desired coverage area and application. (See diagram below)

- The Flex Antenna's field is affected by metal; therefore, the Antenna should be located at least **4 inches** from any metal including metal studs.

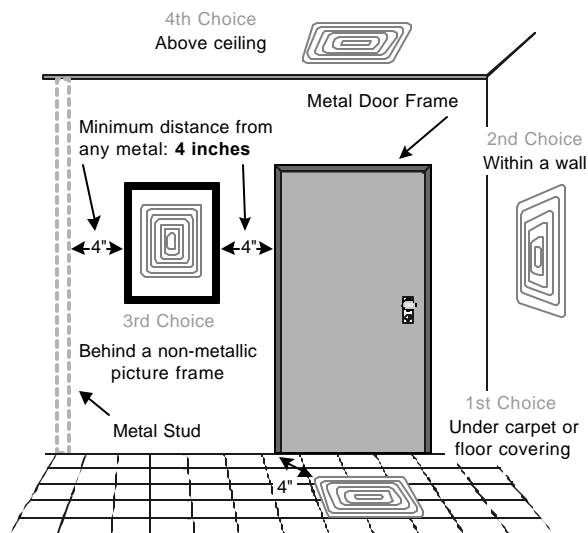


Before permanently installing the Flex Antenna, lay out and test the entire ActiveTag system.



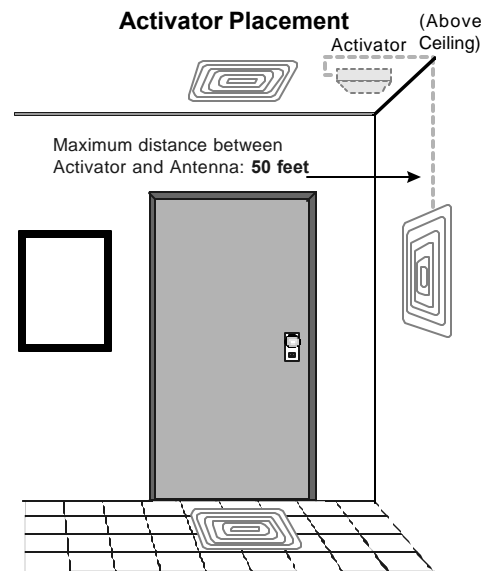
Check with all local inspection codes, including building, fire and electrical, to ensure compliance of the Flex Antenna installation.

Flex Antenna Placement



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

Activator Placement



750.010.005

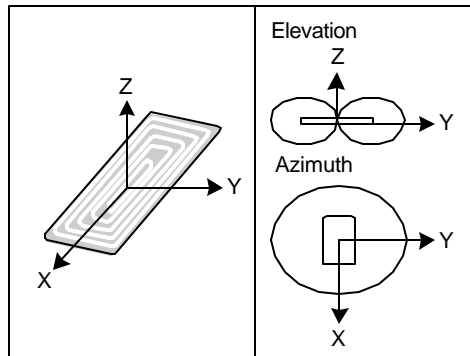


Flex Antenna

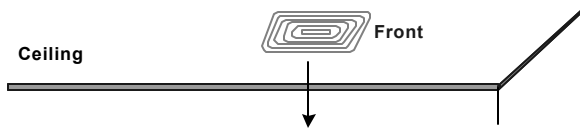
- Orient the Flex Antenna so that the radiation field provides maximum coverage of the desired area. Keep in mind what will be tracked with the antenna - personnel will carry Tags in their shirt or pants pocket, Tags on laptops will be carried closer to the floor.

Range	Model
6 to 8 feet with Asset Tag (Mounted under carpet - flat)	AT-132-A-PT
4 to 6 feet with Asset Tag (Mounted on wall - flat)	
8 to 10 feet with Personnel Tag (Mounted under carpet - flat)	
6 to 8 feet with Personnel Tag (Mounted on wall - flat)	

Flex Antenna Radiation Patterns

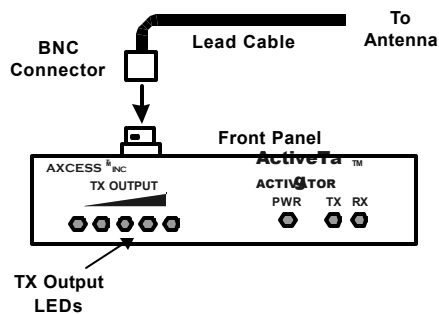


If mounting the Flex Antenna on the ceiling, mount it flat with the front surface facing the floor.



3 Installing the Flex Antenna

- Step 1:** Attach a BNC connector to the end of the Flex Antenna's 20 foot lead.
- Step 2:** Connect the lead to the BNC antenna connector on the top of the Activator.



- Step 3:** Cycle the power of the Activator in order for the antenna's auto-tune feature to function.

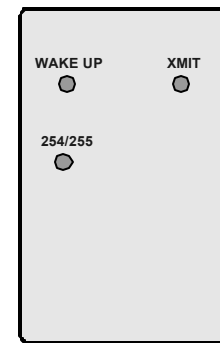


Check the strength of the TX Output LEDs located on the front panel. A minimum of 4 lit LEDs is desired.



- Step 4:** Position the antenna in its approximate final location - but **do not** permanently install it at this time. Have someone hold or place the antenna in various positions until the desired coverage is achieved.

- Step 5:** 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

- Step 6:** Permanently mount the Flex Antenna.



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