



## Cellular Mount Installation Considerations Magnet Mount, Superband® 700 MHz Antenna

### MGNT-SB-700

#### VERIFY:

1. **Part List:** The package includes an antenna that is attached to cable and connector for your two way-radio. Use only the components supplied with the antenna.
2. **Bandwidth:** 700 MHz Superband ® antennas are 50 MHz wide and are designed to operate between 760 MHz to 810 MHz unless otherwise specified. Be certain that the antenna was tuned to the frequency required.

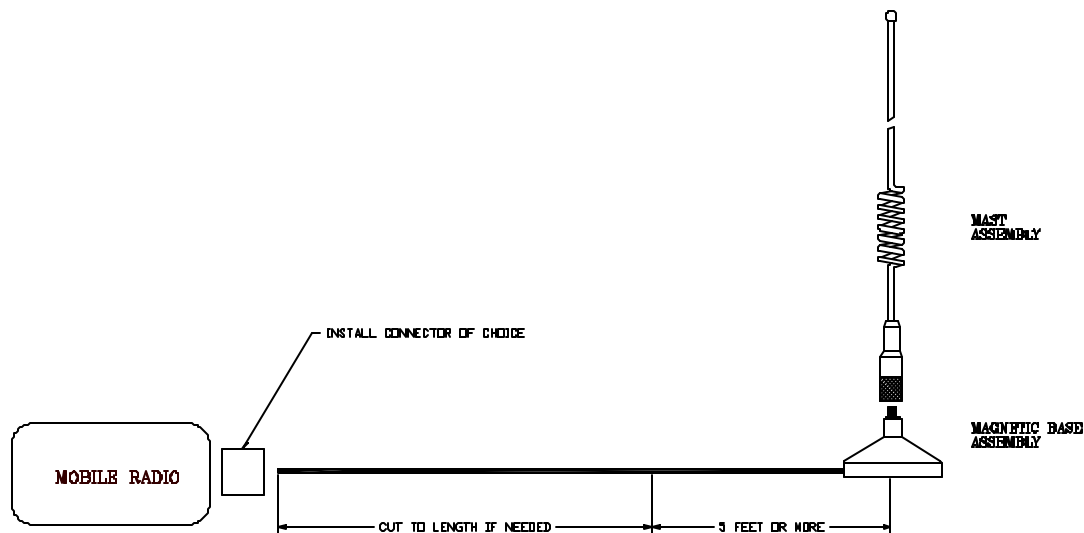
#### INSTALLATION:

1. **Placement:** Select the flattest surface in center of the roof or trunk lid.

**Note:** If the area is convex, a rocking motion will be encountered. A concave surface will reduce the magnet's holding power affecting the quality of the antennas "RF" ground.

Keep in mind that some vehicles will have aluminum or composite trunk lids.

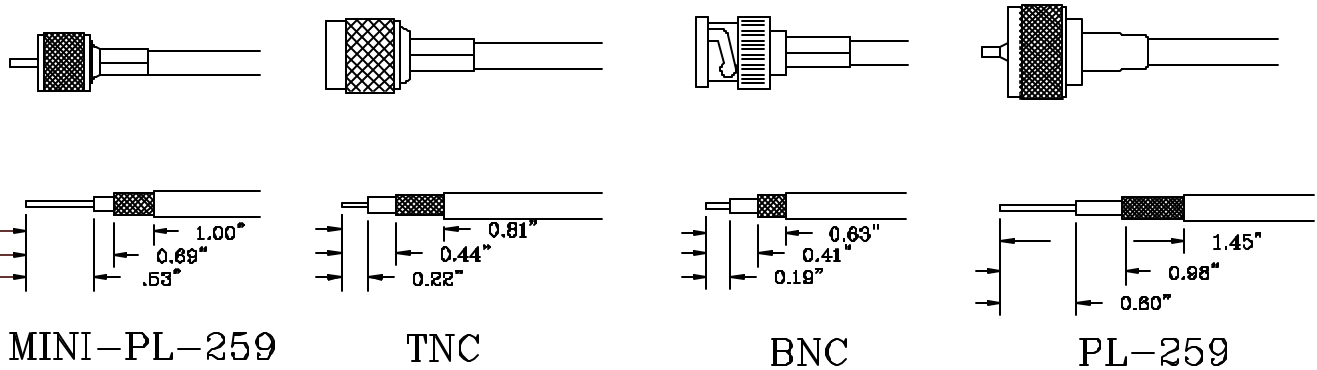
2. **Run Cable:** Route coaxial cable toward the two-way radio. Damage to vehicle and antenna may result from closing window or trunk lid onto a cable junction. Cable will normally not be damaged by opening and closing the window or trunk.





**Note:** Be careful not to tear the sheath of cable when pulling through sharp body panels. If a hole appears in the cable's sheath, cover with several layers of a high quality electrical tape.

3. **Electromagnetic interference:** Do not coil feedline cable or matching network. If limited space is a concern, fold the cable upon itself rather than coiling. Do not tape or secure any feedlines to data or vehicle cables during installation.
4. **Cable Cutting:** If desired, cut the feedline cable to the length required to reach the transmitter.
5. **Install Connectors:** Refer to drawing below: Cable Stripping Dimensions (Drawing is not to scale).



**Cable Stripping Dimensions**

## TESTING:

Installation testing must take place at the transmitter side of the feedline. Make sure all doors, the hood, and trunk are closed.

1. **Reflective Power:** A measurement of reflective power using a wattmeter, you can expect up to 11% reflected power. When results are greater than 11%, reposition antenna.
2. **SWR:** A measurement of SWR (standing wave ratio) will yield better than 2:1. If greater than 2:1, reposition antenna.
3. **Continuity:** A test of continuity between the center pin and ground will show as a short for this antenna.

**CAUTION:** The mast must be removed at knurled section before entering a car wash.