



Cellular Mount Installation Considerations Magnet Mount, CEL Antenna

MGNT-SB-CEL

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:** CEL Superband ® antennas are 90 MHz wide and are designed to operate between 806 MHz to 896 MHz unless otherwise specified. Be certain that the antenna was tuned to the frequency required.

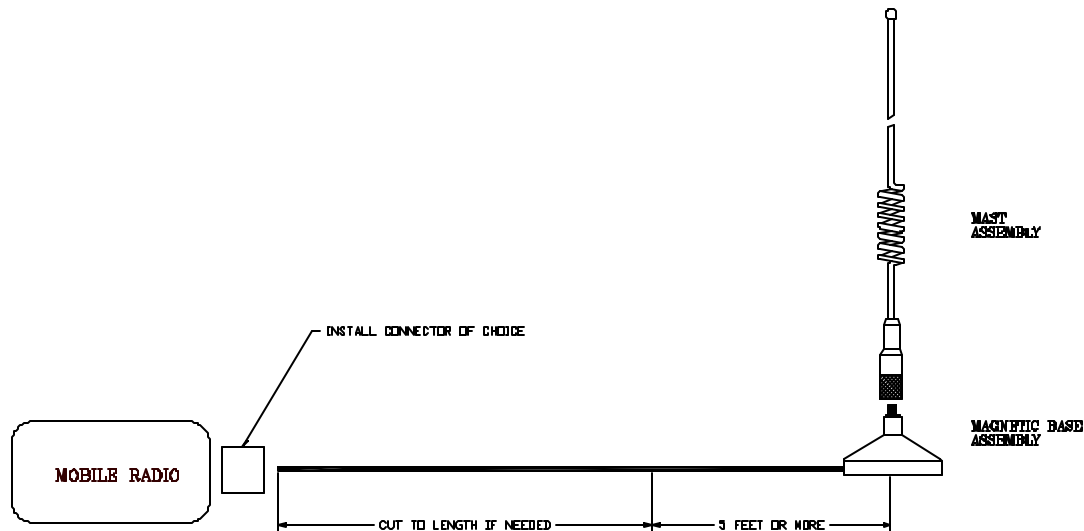
INSTALLATION:

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.

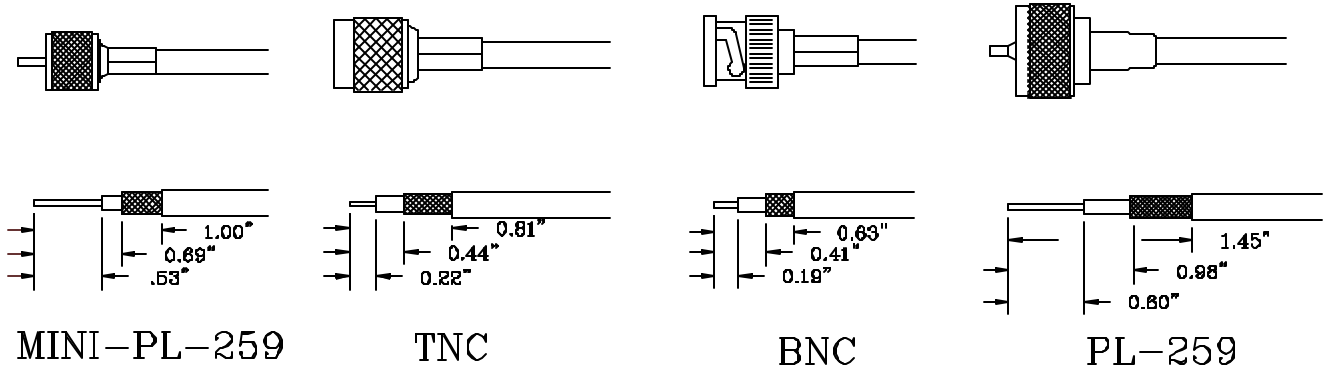
2. **Run Cable:** Route coaxial cable toward the two-way radio. Damage to vehicle and antenna may result from closing window or trunk lid onto a cable junction. Cable will normally not be damaged by opening and closing the window or trunk.



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.*