



For more information on Iridium Antenna Guidelines visit our website at
www.beamcommunications.com

	
<p style="text-align: center;">RST701 RST719 (TSO Approved)</p>	<p style="text-align: center;">RST703 RST704 (TSO Approved)</p>

These Iridium antennas are designed to be installed in what is referred to as a “Bulk Head Mount” installation, these antennas are not supplied with a cable and a suitable cable within specification should be used. The antennas are designed for permanent installations and will require drilled holes and screws to affix them in place.

The GPS antenna have SMA connectors and the Iridium TNC. The 701 require 1 drilled hole and the hexagon locking nut used to secure the antenna in place.

The 703, 704 & 719 require 4 screws (supplied) to affix the antenna in place.

To install the antenna you will need to;

- 1) Use an existing mounting hole or drill a hole that will enable the antenna connector to pass through
- 2) The hole size should not exceed the size of the hexagonal locking nut
- 3) Remove the hexagon locking nut from the base of the antenna
- 4) Secure the hexagonal nut in place on the base of the antenna and tighten antenna firmly in place
- 5) If this is has screw holes then it is advisable to use these to secure to the surface.
- 6) connect antenna cable to the antenna and then to the terminal

Applications



Antenna installation is critical for optimum performance of your Iridium service.

Installing Guidelines

To ensure maximum performance of the antenna system and to maximise availability and reliability of service the antenna must;

- have a clear line of site to the sky
- be clear and free of obstructions
- be clear of metal objects
- be located away from other transmitting devices
- be securely affixed in location
- not be located indoors
- be installed in conjunction with a certified cable

Installing Antenna Cables

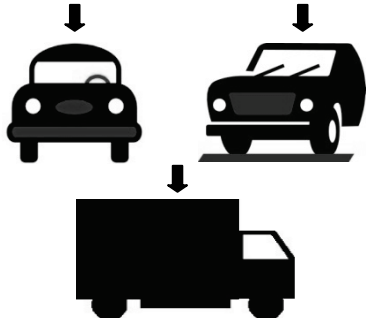

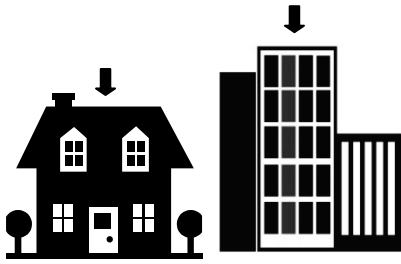
When installing antenna cables, follow these guidelines:

- Route and restrain cables to prevent them from vibrating or moving under normal conditions, which could result in damage to the antenna or the coaxial cable connections.
- Wherever the cables contact structures, protect the cables from chafing or abrasion. If a cable needs to be bent, avoid kinking it, and ensure that each bend radius follows the cable supplier limits.
- Use coaxial sealant, shrink-wrap tubing, electrical tape, or another suitable product to seal all cable connections appropriately to prevent moisture and corrosion damage from weather exposure.
- Mount all antennas vertically and clear of nearby metal obstructions
- Minimize horizontal obstructions as much as possible because they can create areas of poor system coverage.
- To minimize the loss of radio signal from the antenna to the terminal, the specific coaxial cable system between the antenna and the other component should be less than 3db including connector loss.

Installation Options

The antenna system is suitable for marine, vehicle and fixed applications and is designed to meet Iridium System performance requirements when installed according to the instructions in this guide.

The following figure shows typical Installations:

<i>Preferred Antenna Location</i>		
		
<p>Vehicle Antenna Installation</p> <p>The ideal position for any vehicle-mounted application is to capitalise on the greatest ground plane from the surface of the vehicle.</p>	<p>Marine Antenna Installation</p> <p>The antenna must be installed without obstruction of other instruments or structures. The antenna must not be positioned within range of radar equipment or other RF interference.</p>	<p>Fixed Site Installation</p> <p>The antenna must be installed without obstruction of other buildings, chimneys or other structures. Consideration should also be given to the surrounding environments such as large trees, mountains or other buildings.</p>