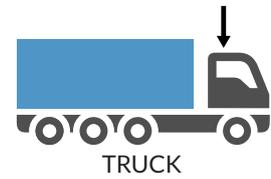
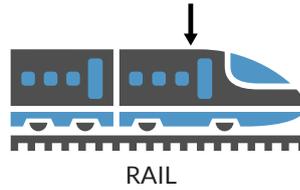
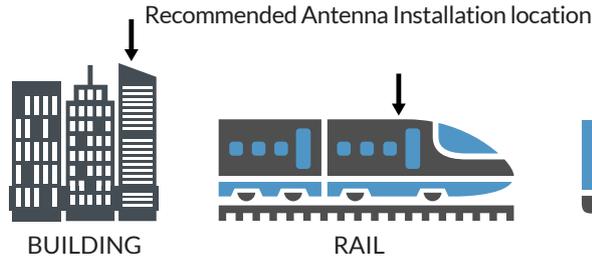
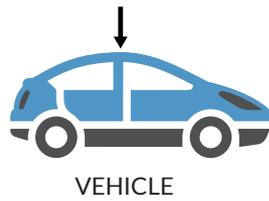


Installation Guide for Beam Bolt Mount Antenna (RST220)



Applications

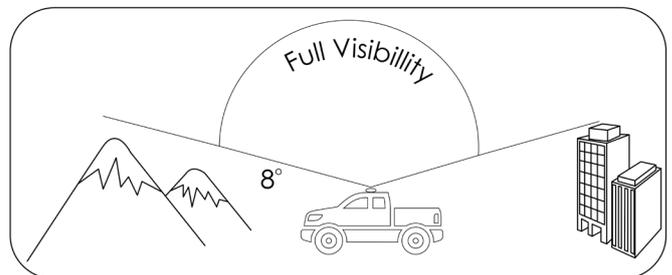


Antenna installation is critical for optimum performance of your Iridium service.

Installation Guidelines

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

- mount antenna horizontally (top side facing up)
- have a clear line of site to the sky
- be clear and free of obstructions
- be located away from other transmitting devices
- be securely attached to a flat ferrous surface
- be located outdoors
- be installed with a Beam certified cable

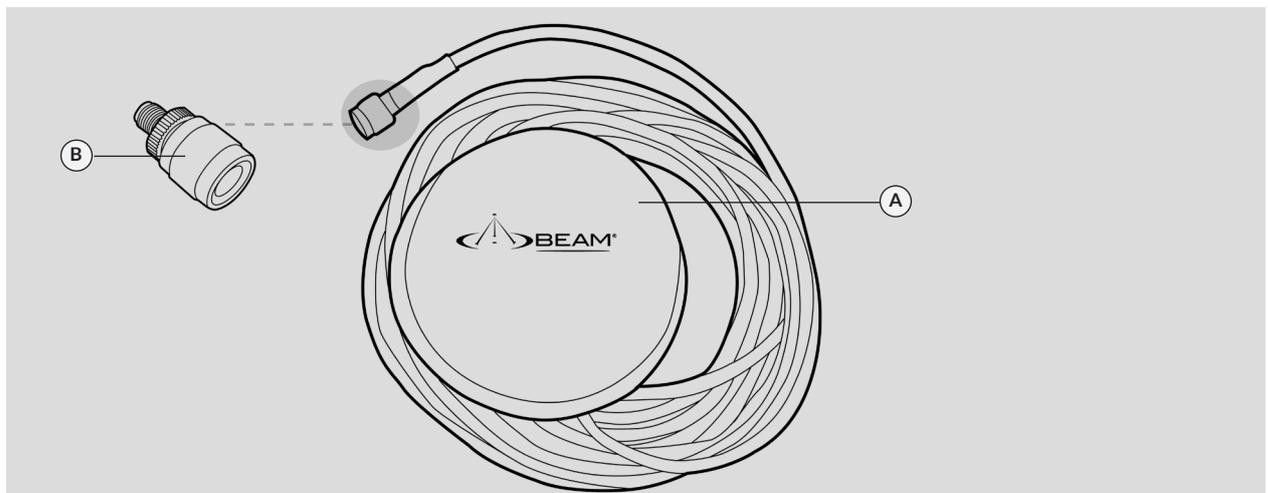


Installing Antenna Cables

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 follow the cable specification limits.

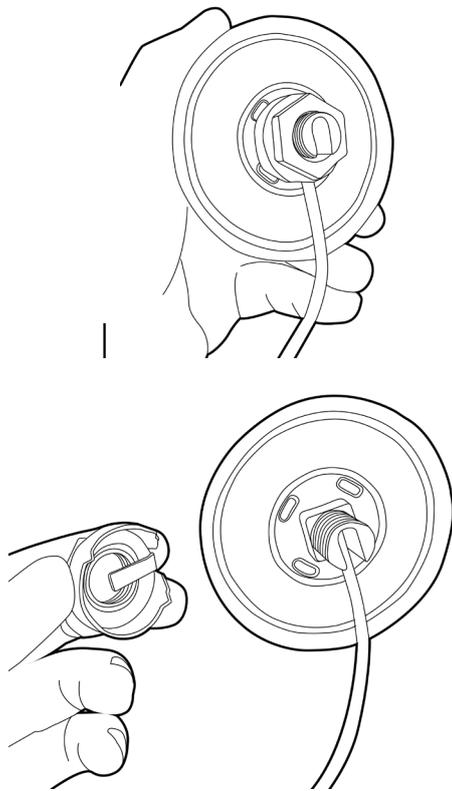
Package Contents



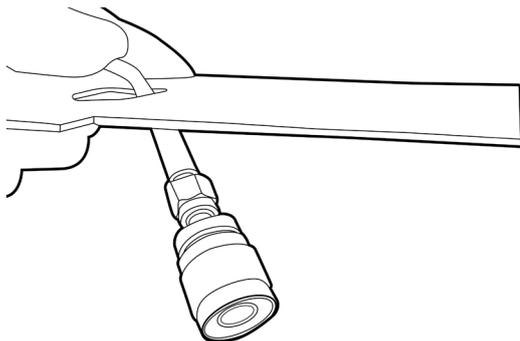
A - Single Mode Bolt Mount Antenna (includes 5m Cable)	B - SMA to TNC Adapter
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Antenna Installation

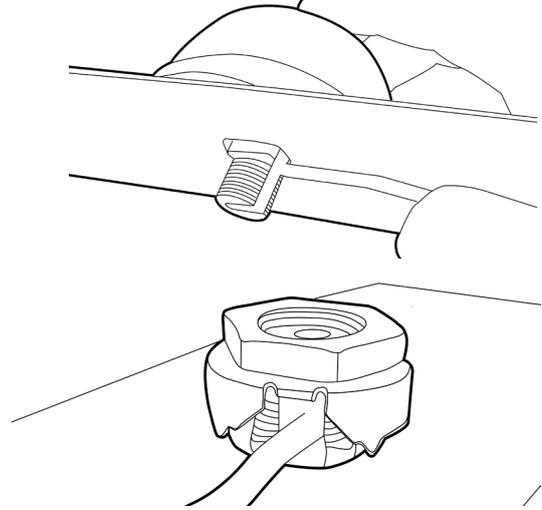
1. The antenna comes with an SMA to TNC Adapter. The adapter is required to connect to the Beam Iridium terminal or accessory. Choose or make a mounting hole size between 15mm to 18mm (0.59-0.71 in) and a maximum plate thickness of 5mm (0.2 in). The mounting plate should be wide enough that the antenna's rubber seal will sit flush on it creating a watertight seal around it. The antenna diameter is 75mm (2.95 in). For illustration purposes a small piece of mounting plate is used in this guide. It is recommended to install it on a stainless steel surface of 5mm (0.2 in) thickness for durability.
2. Remove the hex locking nut from the base of the Single Mode Bolt Mount Antenna (A).



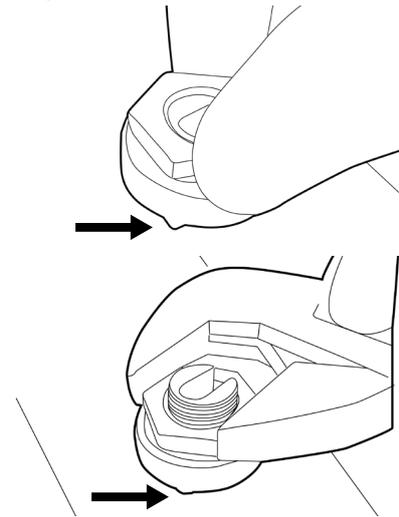
3. Attach the SMA to TNC Adapter (B) to antenna (A). Pass the antenna cable down through the mounting hole. Pull the cable through until the antenna sits comfortably on the mounting plate.



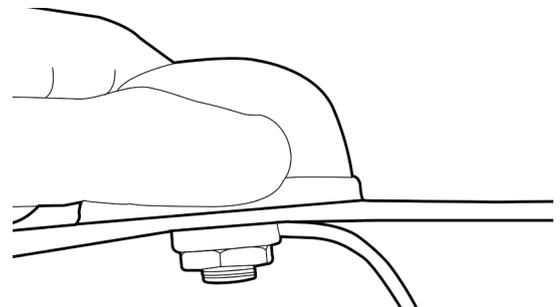
4. **IMPORTANT:** While holding the antenna against the mounting plate, position the cable through the notch as shown and screw in the hex locking nut in place. Make sure the cable is between the spacer's notch at all times to avoid crushing it.



5. Using a 22mm (0.87 in) spanner or an adjustable wrench, tighten the nut enough for the spacer's teeth to sink into the mounting plate.



6. The antenna should look like below image after installation.



7. Finally, connect the other end of the antenna cable to the Beam Iridium terminal or accessory connector. It is recommended to use appropriate strain relief on the cables to avoid damaging them.

