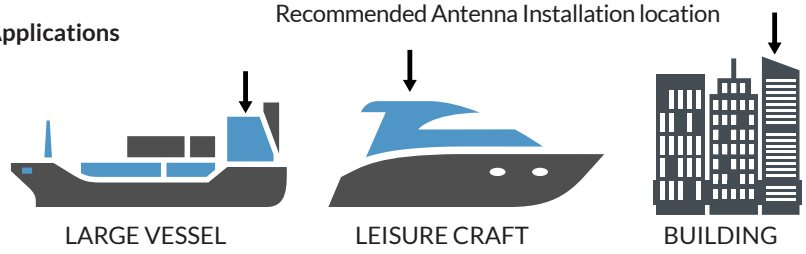
Installation Guide for Beam Mast/Pole/Rail Mount Dual Mode Antenna *(RST202)*

Applications

Recommended Antenna Installation location



LARGE VESSEL | LEISURE CRAFT | BUILDING

WARNING

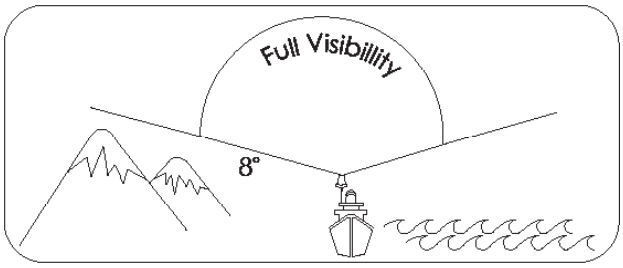
Do not place the antenna anywhere there is a source of heat or fumes such as the ship's exhaust.

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 vertically (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 affixed in location
- be located outdoors
- be installed with a Beam certified cable

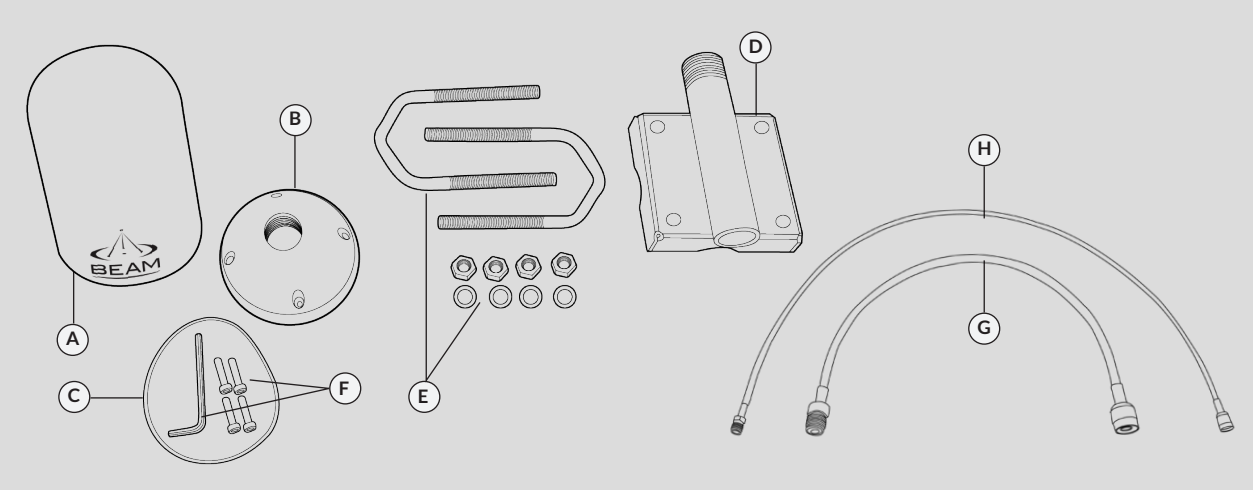


Installing Antenna Cables

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.
- 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.
- To minimize the loss of radio signals from the antenna to the Beam Iridium terminal or accessory, the signal power loss along the cables (end-to-end, including connectors) should be less than 3dB.

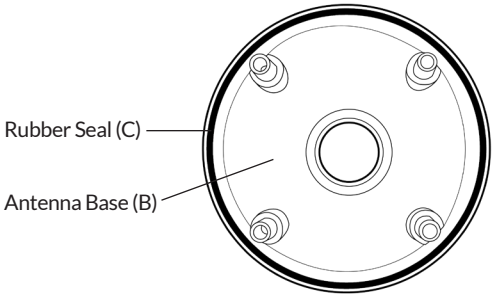
Package Contents



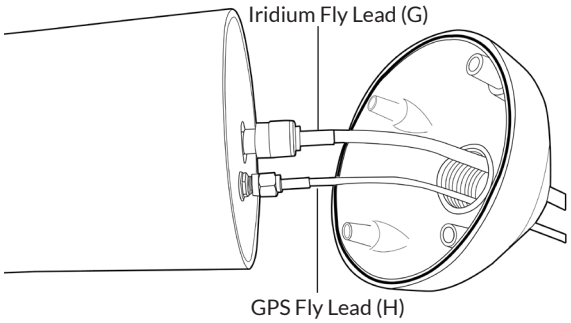
A – Dual Mode Antenna	B – Antenna Base	C – Rubber Seal
D – Mounting Bracket	E – 2 x U-Bolt, nuts/washers	F – 4 x Hex Socket Bolts with Hex key
G – Iridium Fly Lead	H – GPS Fly Lead	

Antenna Installation

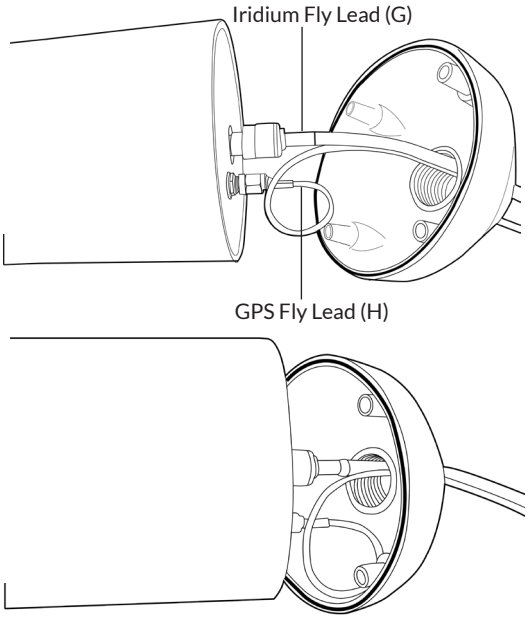
1. Begin by putting the Rubber Seal (C) on the Antenna Base (B). Make sure the rubber sits perfectly in the groove, then pass the two fly leads through the Antenna Base with the TNC male and SMA male connectors on the antenna end.



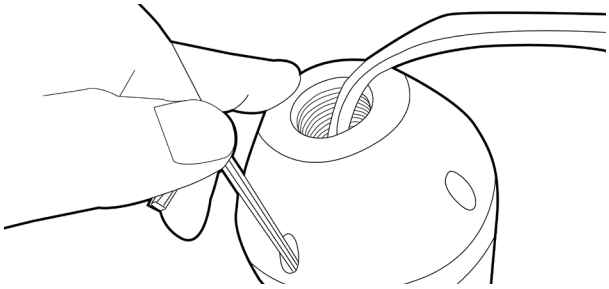
2. Connect the Iridium Fly Lead (G) and GPS Fly Lead (H) to the antenna ports. Make sure the connectors are securely screwed in. Do not use hand tools to avoid breaking the connectors. Hand tightening is recommended.

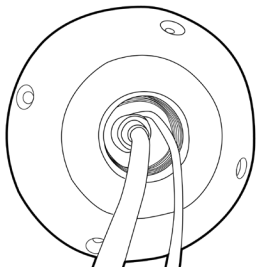


3. **IMPORTANT:** Form a 3cm (1 in) loop on the GPS Fly Lead, as shown in the photo, pull the base up towards the antenna and release the loop as you put the base up to the antenna. Try to keep its shape, if it doesn't repeat forming the loop, this way it reduces stress on the cable bend relief when you attach the base.

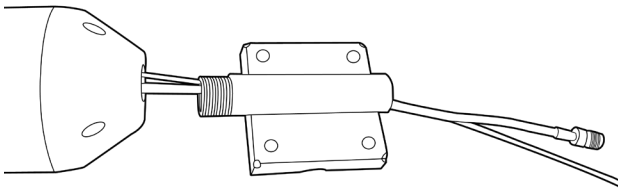


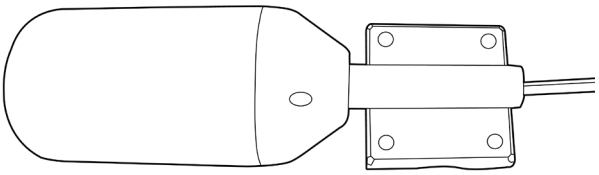
4. Hold the base against the antenna and align the screw holes ready to screw them together. Use the four hex socket bolts with the Hex key to screw the base to the antenna. Do not over tighten. Over tightening may break the thread and compromise the seal.



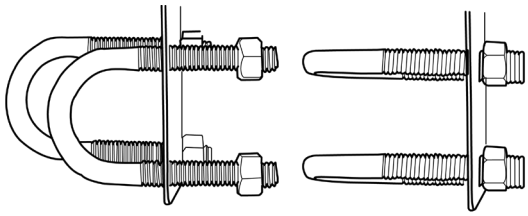


5. Pass the two fly leads through the Mounting Bracket (D) so the antenna can be screwed onto the brackets short pole until tightly secured.





6. Using the U-Bolt, nuts and washers (E) provided, the antenna can be affixed to either a horizontal or vertical pole mount.



Horizontal Pole Mount Vertical Pole Mount

7. Finally, connect the fly leads to the respective GPS and Iridium cable connectors of the main cables connected to the Beam Iridium terminal or accessory. It is recommended to use appropriate strain relief to prevent the fly leads from being pulled down.

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