

Requirements for deployment

- antenna wire, nylon halyard, and antenna adaptor on winding spool
- earth lead with clip and plug, or counterpoise

Antenna selection

This antenna is suitable for communication over short to long distances up to 2000 km (1200 mi), using frequencies of 1.6–30 MHz.

Deploying the tactical long wire antenna

To ensure optimal transceiver performance and to avoid exposure to excessive electromagnetic fields, the antenna system must be deployed according to the instructions provided.

Preparing the antenna for deployment

To prepare the antenna:

NOTE Select a site that is clear of overhead power lines and other electrical interference.

- Locate a suitable structure (e.g. tree) that will hold the halyard end of the antenna approximately 10 m (33 ft) from the ground. Heights below this may reduce the capability for long-distance communications.
- Unwind the entire length of the halyard from its winding spool neatly, followed by the antenna wire.

Deploying the antenna

To deploy the antenna:

WARNING Do not deploy or use the antenna if there is lightning in the area.

- Throw the sinker and halyard over the structure.

NOTE Swing the sinker on approximately 0.5 m (2 ft) of halyard underarm, while aiming for the structure.

- Hoist the antenna wire up the structure, then tie off the halyard to the structure.

Connecting the antenna to the transceiver

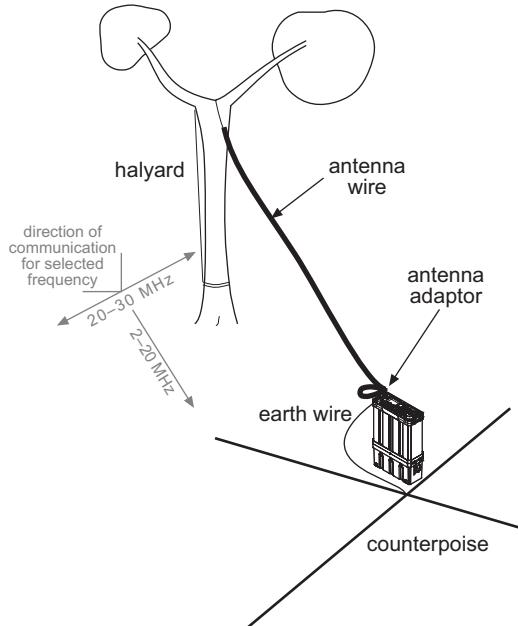
To connect the antenna:

- Switch off the transceiver.
- Unscrew the antenna adaptor from the winding spool, then screw it onto the antenna stud (Y) on the front panel.

WARNING Take care not to cross the thread on the antenna stud.

- Clip the strain loop of the antenna wire to the clip on the antenna adaptor.
- Plug the antenna wire into the top of the antenna adaptor.
- Move the transceiver to a point where the antenna wire no longer sags, and is oriented correctly for the frequency you want to use and the direction in which you want to communicate (see diagram).
- To use an earth lead:
 - Plug the earth lead into the earth terminal (J) on the front panel.
 - Clip the other end of the earth lead to a large metal object, e.g. shed, vehicle, fence post.

- To use a counterpoise:
 - Lay out the counterpoise, forming a cross.
 - Prop the transceiver against a suitable support in the centre of the counterpoise.
 - Plug the wire from the counterpoise into the earth terminal (⊥) on the front panel.



Packing up the tactical long wire antenna

To pack up the long wire antenna:

- Switch off the transceiver.
- Unplug the earth lead or counterpoise from the earth terminal, wind up, then stow.
- Unplug and unclip the antenna wire from the antenna adaptor.

- Switch on the transceiver.
- Select a channel then press PTT to tune the antenna.
- Ensure that the internal antenna tuner is activated (¶ ATU/50 or ¶ ATU).

WARNING
High RF voltages are present during transmission and tuning. Do not touch the antenna during these activities.

WARNING
You should not transmit from your transceiver or tune the antenna unless people are standing beyond the safe working distance of 0.2 m (8 in) from the antenna.

If the antenna fails to tune, you may need to shorten the antenna wire. Make a loop in the wire, then secure the loop flat against the remaining wire.

- Unscrew the antenna adaptor from the antenna stud, then screw it onto the winding spool.
- Untie the halyard and lower the antenna.
- Wind the antenna wire and halyard onto the winding spool by rotating the winding spool end-over-end along the antenna wire.
- Secure with the velcro fastener, then stow.