

### Requirements for deployment

- steel rope and antenna wire with in-line termination on winding spool
- nylon halyard on winding spool
- balun
- 3 m (10 ft) coaxial cable
- earth lead with clip and plug, or counterpoise
- earth stake

### Antenna selection

This antenna is suitable for communication over short to long distances up to 2000 km (1200 mi), using frequencies of 2–30 MHz. This antenna does not use the internal antenna tuner of the transceiver.

### Deploying the tactical end-fed broadband 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.

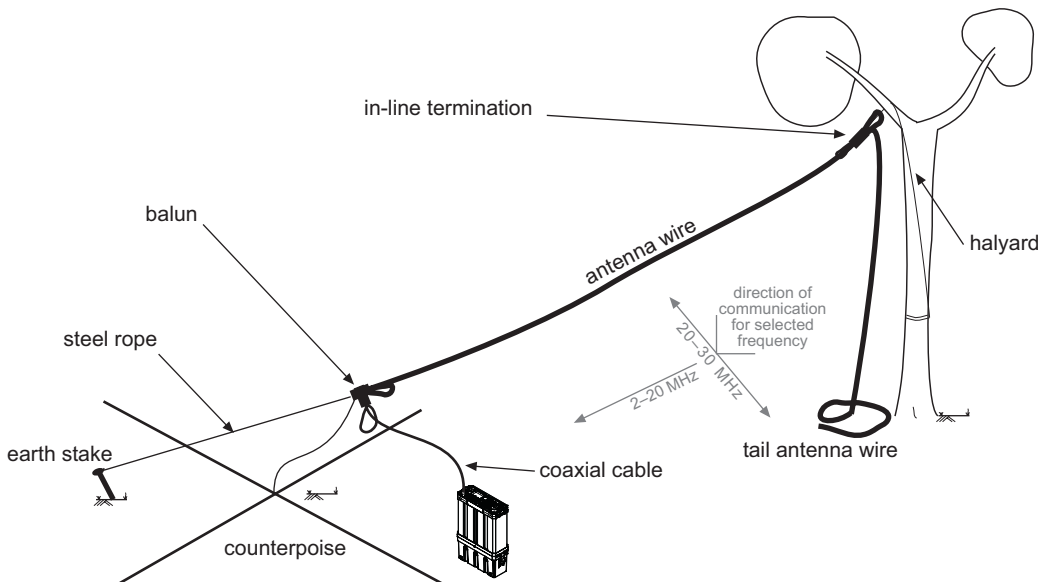
#### Preparing the antenna for deployment

To prepare the antenna:

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

#### NOTE

- ❑ Locate a suitable structure (e.g. tree) that will hold the 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 lengths of antenna wire and halyard from the winding spools neatly.
- ❑ Connect one end of the coaxial cable to the connector at the bottom of the balun.



## 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.

- Clip the halyard to the in-line termination, or to the end of the antenna wire, as required.
- Hoist the antenna wire up the structure, then tie off the halyard to the structure.
- Locate the balun end of the antenna at 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).
- Secure the antenna using the steel rope with the earth stake, or wrap the rope around a stationary object.
- To use an earth lead:
  - Plug the earth lead into the earth terminal on the balun.
  - 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.
  - Plug the wire from the counterpoise into the earth terminal on the balun.

## Connecting the antenna to the transceiver

To connect the antenna:

- Switch off the transceiver.
- Connect the coaxial cable to the **11** connector on the front panel.
- Switch on the transceiver.
- To view the SWR, press **TUNE**, then PTT. If the SWR is greater than 3:1, check all cable connections, then view the SWR again.
- Ensure that the 50 Ohm connector is activated (**11 ATU/50** or **11 50**).

### 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.

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## Packing up the tactical end-fed broadband antenna

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To pack up the tactical end-fed broadband antenna:

- Switch off the transceiver.
  - Disconnect the coaxial cable from the **11** connector.
  - Disconnect the coaxial cable from the balun, coil, then stow.
  - Unplug the earth lead or counterpoise from the balun, wind up, then stow.
  - Untie the halyard and lower the antenna.
  - Unclip the halyard from the in-line termination or antenna wire.
  - Wind the halyard onto the winding spool, secure with velcro, then stow.
  - Hook the end of the antenna wire onto the node on the winding spool.
  - Wind the antenna wire and steel rope onto the winding spool by rotating the winding spool end-over-end along the antenna wire.
  - Secure the antenna wire, balun, steel rope and earth stake on the winding spool with velcro, then stow.
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