

Requirements for deployment

- antenna wire with in-line termination on winding spool (Qty 2)
- nylon halyard on winding spool
- balun
- 15 m (50 ft) coaxial cable
- earth lead with clip and plug, or counterpoise (Qty 2)
- earth stake (Qty 2)

Antenna selection

This antenna is suitable for communication over short to long distances up to 5 000 km (3 000 mi), using frequencies of 3–30 MHz. This antenna does not use the internal antenna tuner of the transceiver.

Deploying the tactical broadband dipole 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. The broadband dipole antenna is deployed symmetrically about a centre balun. The support structure should be able to hold the balun approximately 10 m (33 ft) above the ground. Heights below this may reduce the capability for long-distance communications.

Preparing the antenna for deployment

To prepare the antenna:

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

NOTE

- Unwind the halyard from its winding spool and clip to the top of the balun.
- Hook the strain loop of the coaxial cable on the eyelet at the bottom of the balun.
- Connect the end of the coaxial cable to the connector at the bottom of the balun.
- Unwind each antenna wire from its winding spool.
- Clip the strain loop of each antenna wire to a clip on the balun.
- Plug each antenna wire into 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

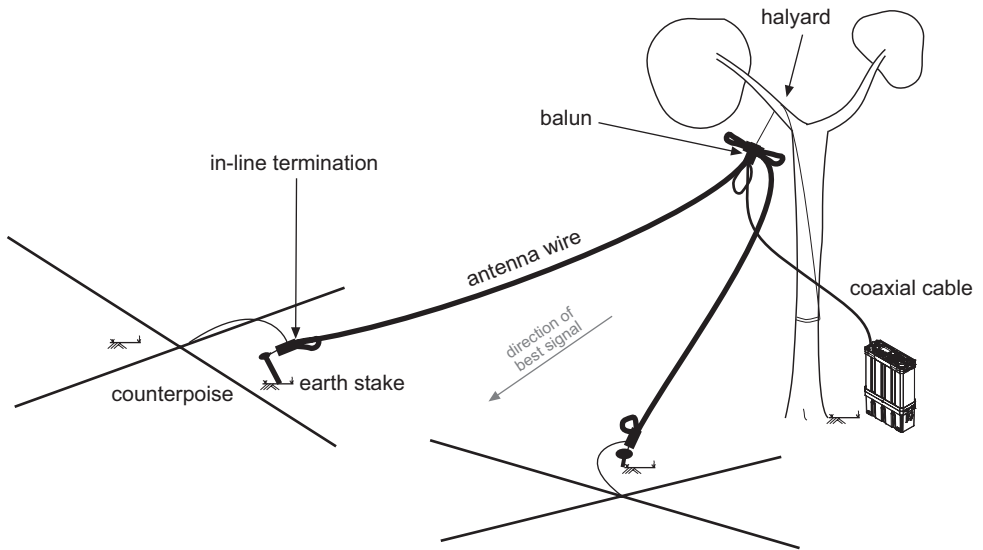
Swing the sinker on approximately 0.5 m (2 ft) of halyard underarm, while aiming for the structure.

- Hoist the balun up the structure, then tie off the halyard to the structure.
- Locate the antenna wires as shown in the diagram. The angle enclosed by the antenna wires should face the direction in which you want to communicate.
- Secure each antenna wire in position using an earth stake.

Connecting the antenna to the transceiver

To connect the antenna:

- Switch off the transceiver.
- Connect the coaxial cable to the  connector on the front panel.



- ❑ To use an earth lead:
 - Plug an earth lead into the earth terminal on each in-line termination.
 - 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 each counterpoise into the earth terminal on each in-line termination.
- ❑ 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 (**77 ATU/50** or **77 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.

Packing up the tactical broadband dipole antenna

To pack up the tactical broadband dipole antenna:

- ❑ Switch off the transceiver.
- ❑ Disconnect the coaxial cable from the **77** connector.
- ❑ Unplug the earth leads or counterpoises from the in-line terminations, wind up, then stow.
- ❑ Untie the halyard and lower the balun.
- ❑ Disconnect the coaxial cable from the balun, coil, then stow.
- ❑ Stow the earth stakes.
- ❑ Hook the in-line termination of each antenna wire onto its winding spool.
- ❑ Wind the antenna wire onto the winding spool by rotating the winding spool end-over-end along the antenna wire.
- ❑ Unplug and unclip each antenna wire from the balun, secure with velcro, then stow.
- ❑ Unclip the balun from the halyard, then stow.
- ❑ Wind up the halyard onto the winding spool, secure with velcro, then stow.