

3.2 (continued)

Cable requirements for the array to be installed require two steel halyards along with two poly-ropes to anchor the lower array triangle. The approx. length of the halyards can be calculated from the following equation:

Where H = height of support masts (metres)

S = separation between masts (metres)

L = length (metres)

$$L = \sqrt{[(S/2-15)^2 + H^2] + H + 2}$$

Similarly, the poly-rope lengths can be determined from the following:

$$L = \sqrt{[(S/2-15)^2 + H^2] + 1}$$

4.0 ANTENNA ARRAY INSTALLATION

The antenna array is supplied as one complete assembly with each array half tie-wrapped to prevent tangling.

4.1 UNPACKING

Prior to removing any ties, lay the array on the ground centrally between the two masts. Lay the spreader bars down such that the centre poly-rope is lying on top of the lower stainless steel triangle (refer to the installation dwg. supplied). The spreader bars should remain closest to the masts when the array is unrolled. Ensure that one half of the array 'mirrors' the second half when laid out flat on the ground (refer to your installation drawing for details).

4.2 BALUN INSTALLATION

The balun consists of two stainless steel arms encased within a 6.5cm (2.56") diameter fibreglass tube. An 'N' type (or 'UHF') female coaxial connector is located at the base (depending on antenna model supplied).

4.2.1 Fasten the two shackles, one at the end of each array half, to the 0.9cm (0.35") diameter holes on each arm of the balun.

4.2.2 Place the stainless steel jumpers through the terminals located on the arms, and tighten down as shown on sheet 2 of the installation drawing. Ensure connection is made utilizing Penetrox supplied with array.