

# High Visibility Cable Balls

## Introduction

These instructions will assist you in installing high visibility cable balls on TallTower guy wires. The items included are:

- 8 orange plastic cable ball 1/2 (part number 3814)
- 24 bolts, truss-head #10-32x5/8, stainless steel (part number 3842)
- 48 washers, stainless steel (part number 3843)
- 24 nuts, #10-32 stainless steel Nylock (part number 3844)
- 1/4" cable kit
  - 4 short wire rope cables 1/4", 26 inches long (part number 1513) [*compatible with 3/16" or 1/4" guy wires*]
  - 8 wire rope clips for 1/4" cable (part number 1596)

The tools required are:

- (1) #2 Phillips head (+) screwdriver
- (1) 3/8 inch nut driver or socket
- (1) 1/2 inch nut driver or socket

## Installing the Cable Balls

Balls should be installed on each guy wire 3 m (10 feet) below the guy ring on the top set of guy wires. An additional set of balls can be installed lower on the same guy wires at least 3 m (10 feet) above highest point vegetation is likely to reach.

Place one half of a cable ball (part number 3814) in position with the TallTower guy wire cable running through the two grooves molded into the plastic to accept the cable.

Position the short wire rope cable next to the tower guy wire cable (marked with white tape in the photo below) in the grooves. Electrical tape may be used to hold this cable in place (as shown in photo 1).



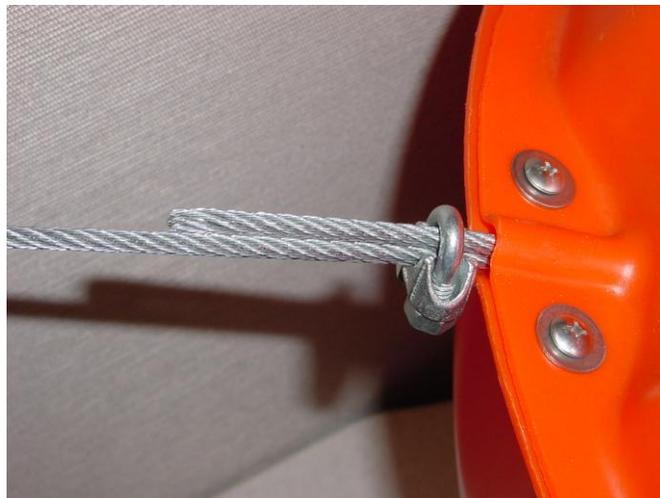
**PHOTO 1**



**PHOTO 2**

Position the top half of the ball over the two cables (photo 2).

Install the bolts, washers and locknuts to secure the plastic pieces together (photo 3). Use a washer under the head of each bolt and another under each locknut. Tighten only enough to secure the plastic pieces together. Avoid over-tightening because this will crack the plastic.



**PHOTO 3**

Place the u-bolt part of the wire rope clip over the 'dead' cable (the short wire rope cable). Place the saddle part of the wire rope clip over the 'live' cable (the TallTower guy wire cable) and tighten nuts. If you installed the wire rope clip correctly, the nuts will be on the same side as the TallTower guy wire cable (Photo 3). Pull the short cable tight and install another wire rope clip on the other side of the ball as described above.

**CAUTION:** Incorrect installation of the wire rope clip can severely weaken the cable and cause premature cable failure.