

Series 4300 Installation Guide for 1/8" Cable

Invisiware® Receiver with Push-Lock™ Threaded Eye Fitting

Materials/tools required _____

- * **Cable Gripping Pliers** — (50TCG1)
Used to grip the cable while tensioning the end fittings without damaging the cable.
[OPTION: Use a piece of rubber hose with vice grips around the cable to prevent scarring.]
- * **Cable Cutter 1/8"** — (82T07)
- * **3/16" Hex Allen Key**
- * **5/32" Hex Allen Key**
- * **Drill**
- * **Drill Bits:**
 - **29/64"**
 - **5/32"** (if there are intermediate posts between terminating end posts or where the length of the receiver you are using is less than the thickness of the end post)
 - **15/16"** (if you wish to counterbore the wood end post to recess the 11HW14 washer)
 - **15/64"** for hanger bolt pilot hole (**1/4"** if installing in extremely hard wood)



- **1" & 5/16"-24 Tap** for Threaded Tab.
Drill and tap into .250" wall (min.) steel tube.

Drill posts _____

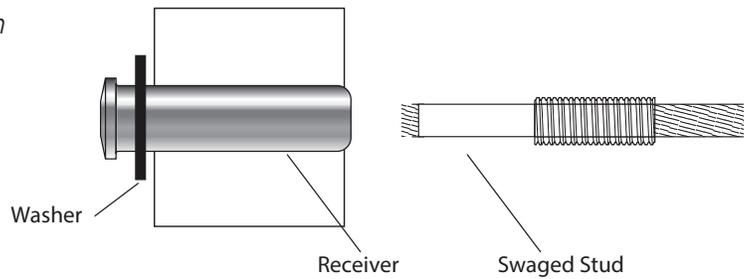
Terminating (end) post for Invisiware® receivers — Drill a 29/64" hole from the back side of the end posts where each cable will be installed. For a 1-1/2" or less square end post using a 1-1/2" long receiver, a 2" end post using a 2" long receiver, or a standard 4x4 using a 3-1/2" long receiver, drill the hole completely through the post. For posts thicker than the length of the receiver, drill a 5/32" pilot hole completely through the post, then drill a 29/64" hole only through the back surface of the end post (in the case of a wood post, to a depth a little greater than the length of the receiver) but not completely through the post.

Intermediate post or other element through which the cable will pass between the end posts — Drill 5/32" diameter holes lined up with the holes in the end post through which the cable will pass between end posts.

Install Invisiware® Receivers

Note: If you are installing the receivers into a stairway rail, see separate instructions on page 4.

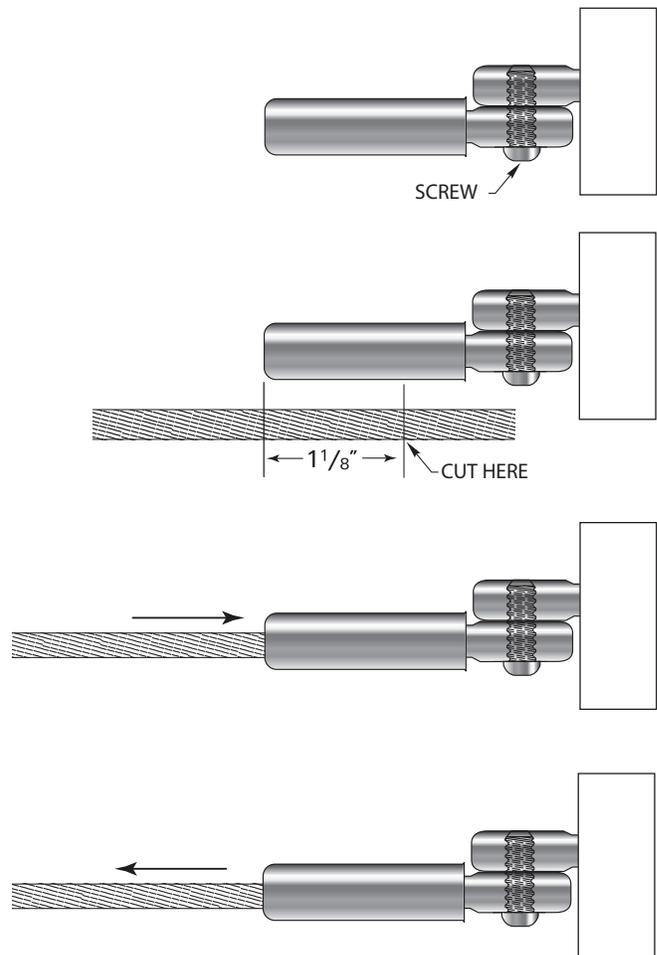
1. Slide the washer (black plastic for metal posts, 11HW14 stainless steel for wood posts) over the body of the receiver, then feed the receiver through the hole in the back of the post.
2. By hand, screw the receiver body onto the swaged stud at least 6 full turns.
Do not tension the cables at this point.



String the cable through the holes drilled in your intermediate posts (or other elements through which the cable passes between end posts).

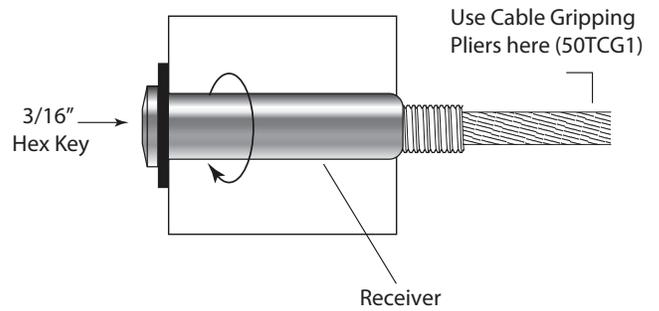
Install Push-Lock™ Threaded Eye fitting

1. Attach the Push-Lock™ Threaded Eye to one terminating end post with a 20HTT4 Threaded Tab or 20HLE4 Lag Eye (ordered separately) or other means with the 11HBS8 screw provided. Tighten the screw with a 5/32" hex wrench. (Use the 'I' Drill and 5/16"-24 Tap to thread the metal post for the Threaded Tab (20HTT4) or the 15/64" drill for wood posts to insert the Lag Eye (20HLE4).)
2. Pull the cable tight and mark the cable at a point 1-1/8" from the end of the fitting opposite the eye (see illustration). Cut the cable at the mark, using the cable cutter (82T07).
3. Push the cable into the fitting as far as it will go (approximately 1-1/16"). Twist the cable in the right-hand direction (with the lay of the cable) as you push it into the fitting. You will feel it slide through the jaws inside the body of the fitting.
4. Pull the cable to set the gripping action of the Push-Lock™ fitting.

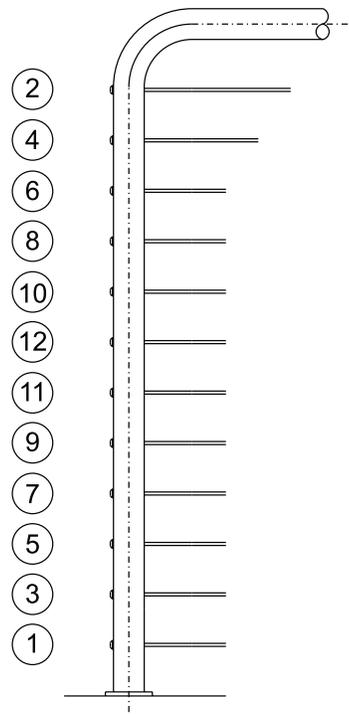


5. Tension the cables:

After all the cables have been installed in both end posts, tension the cables with the receivers on the other end to approximately 150 lbs. per cable by holding the cable with the Cable Gripping Pliers (50TCG1) closely behind the stud. Turn the receiver clockwise with a 3/16" hex key as illustrated at right.



Tension in sequence, beginning with the outside cables and moving from side to side toward the center

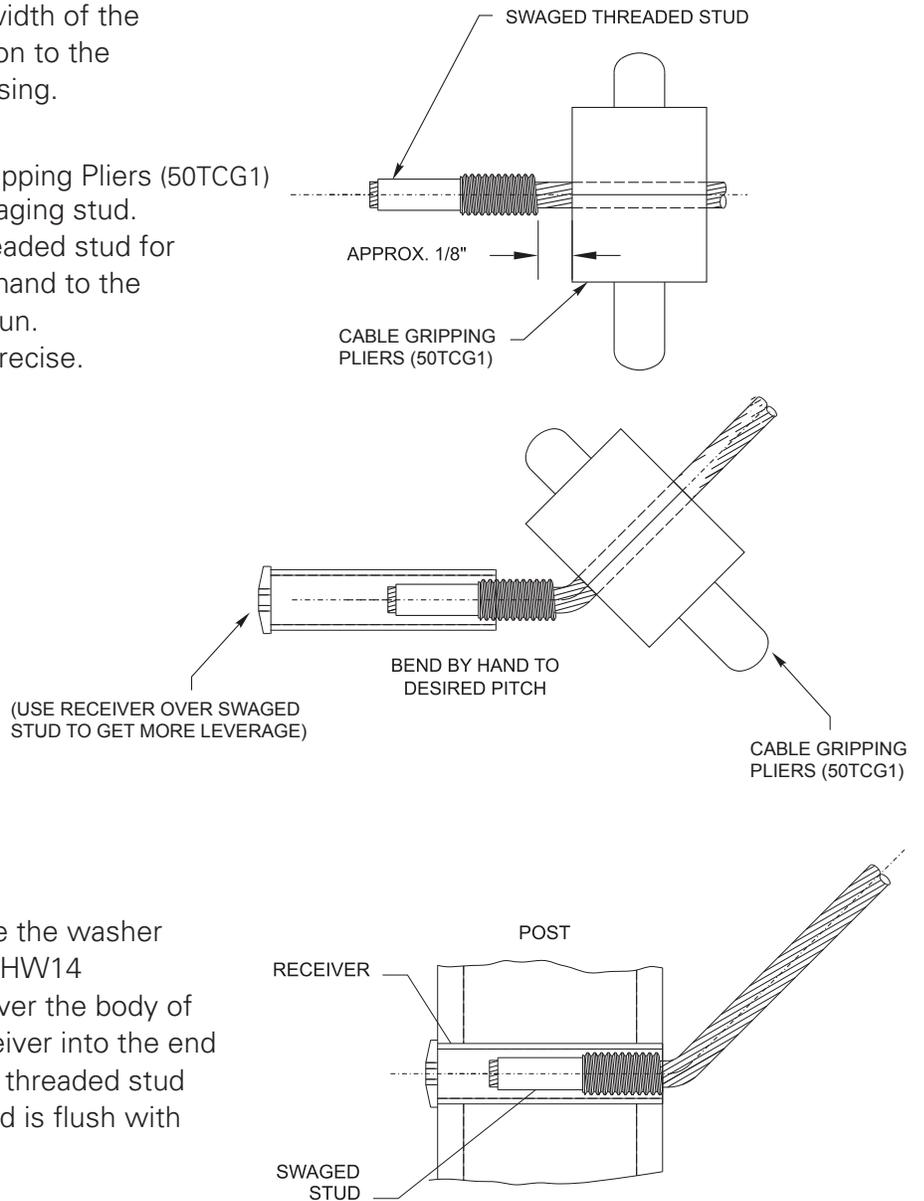


RECOMMENDED TENSIONING SEQUENCE

Using Invisiware® Receivers on stairways without having to drill the holes at an angle

To use this technique, the overall width of the end post must be close in dimension to the length of the receiver you will be using.

1. Grip the cable with the Cable Gripping Pliers (50TCG1) approximately 1/8" from the swaging stud. Screw the receiver onto the threaded stud for leverage and bend the cable by hand to the approximate angle of the cable run. This bend does not have to be precise.



2. Remove the threaded stud. Slide the washer (black plastic for metal posts, 11HW14 stainless steel for wood posts) over the body of the receiver, then install the receiver into the end post. Turn the receiver onto the threaded stud until the end of the threaded stud is flush with the end of the post.

3. Proceed with the instructions for stringing the cable and installing the Push-Lock™ with threaded eye fitting.