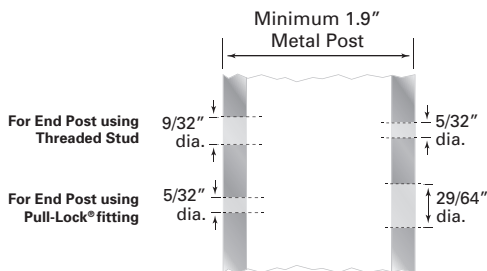
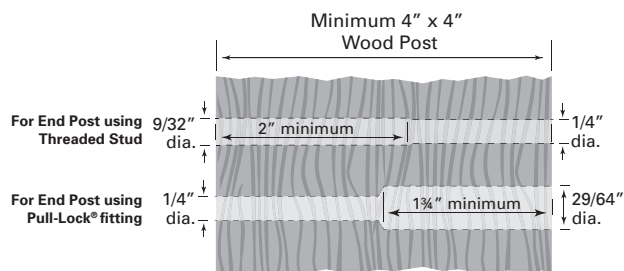


# Kit 102 Series Stair Installation Instructions for Wood or Metal Posts

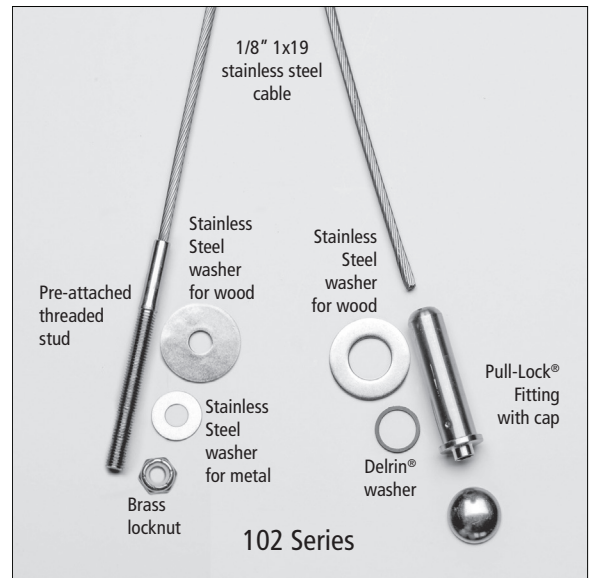
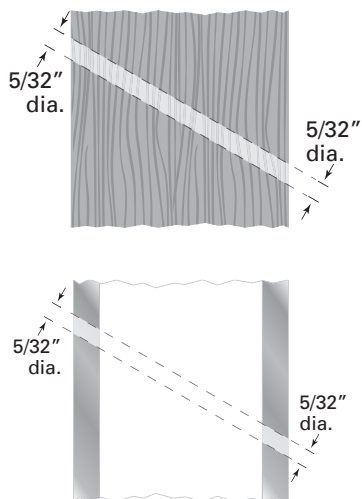
## A. Drill Posts

### Hole size for 1/8" dia. cable installation

Neither the threaded stud nor the Pull-Lock® will reach all the way through wood end posts, so you will need to add post protector tubes (aka CS-TUBE) to the inside face of your end posts to protect the wood from the cable as it exits the post at the stair angle. Not needed for metal posts.

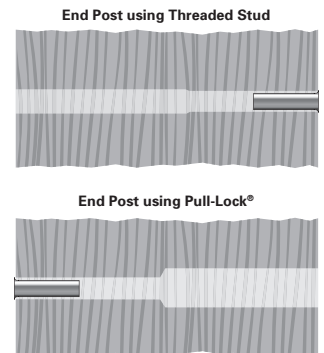


Intermediate posts are drilled on the angle.

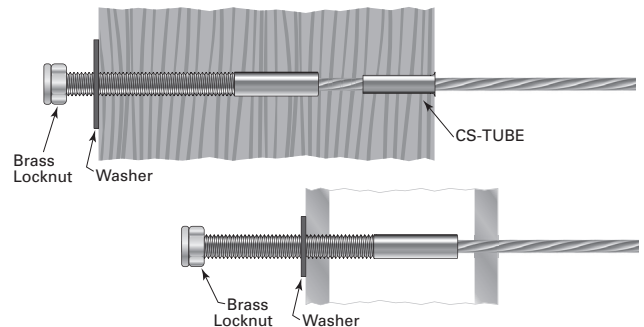


## B. Install Tensioning Terminal

1. If a wood post, insert the post protector tube first into the face of both end posts. Force each tube into post so it is flush with post face.



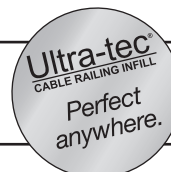
2. Slide the stainless steel washer onto the threaded stud (smaller for metal post, larger for wood) and start the brass locknut onto the threads as far as possible by hand. Feed the cable through the end post, pulling the threaded stud into place.



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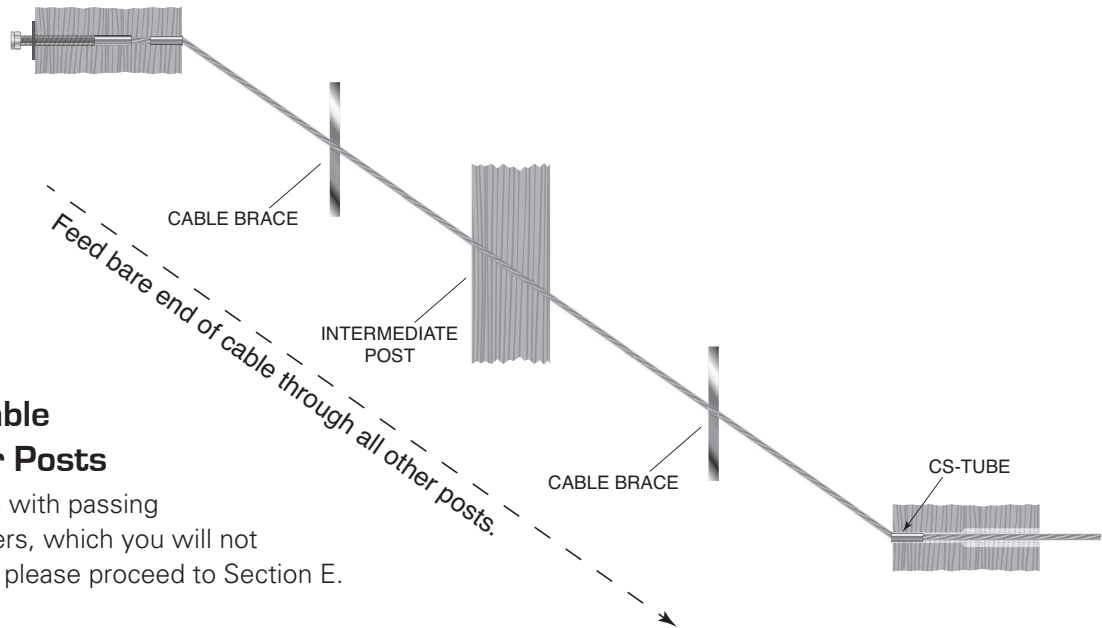
E-mail: [info@ultra-tec.com](mailto:info@ultra-tec.com) Website: [www.ultra-tec.com](http://www.ultra-tec.com)



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## C. Feed Cable through Intermediate Posts

1. Pass bare end of cable through intermediate post(s), and through other end post (which includes post protector tube if wood post).

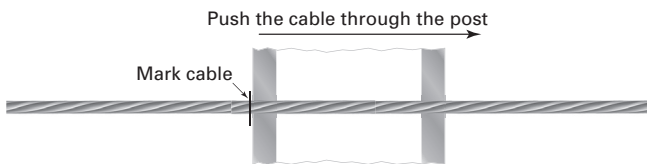


## D. Feed/Crimp Cable through Corner Posts

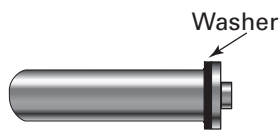
As this section deals with passing cables through corners, which you will not be doing with stairs, please proceed to Section E.

## E. Install Swageless Terminal

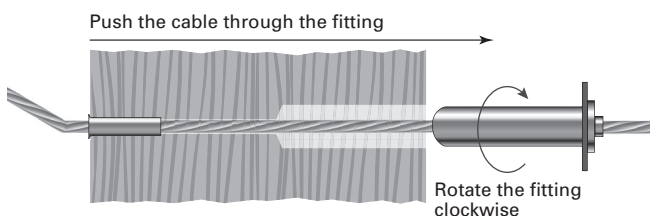
1. Push the bare cable through the other end post and mark the cable at the point where it enters the end post.



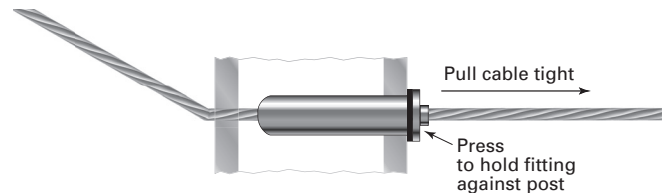
2. Slip the appropriate washer over the body of the Pull-Lock fitting (Delrin® for metal post, stainless steel for wood post).



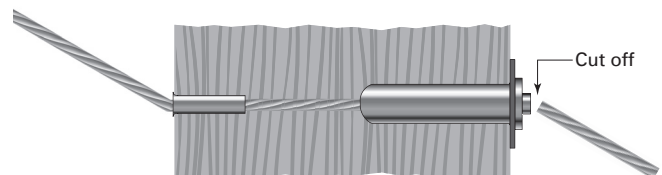
3. Rotate the Pull-Lock fitting clockwise as you push it onto the cable. If the cable begins to "unravel," you are rotating the fitting in the wrong direction.



4. Push the Pull-Lock fitting along the cable and firmly into the hole in your post. Pull on the cable (cable gripping pliers are helpful for this) to create as much tension as possible as you seat the Pull-Lock fitting into the hole.

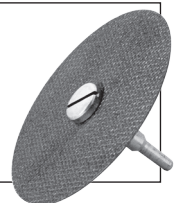


5. Cut the cable flush with the hole in the back of the fitting using a cut-off wheel.



### Cut-off Tool

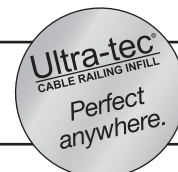
Used to cut cable flush with the end of the Pull-Lock fittings, and to cut excess threads off stud-type Receivers. Includes mandrel and two cut-off wheels. Order **CUT-OFF KIT**



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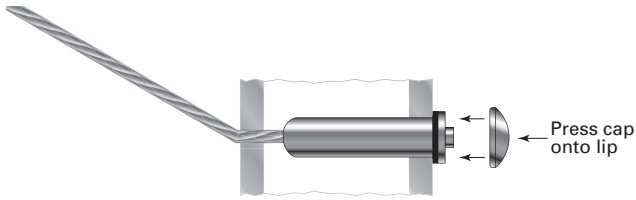
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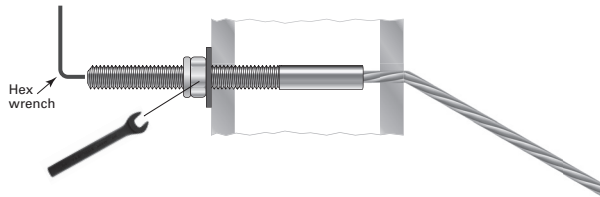
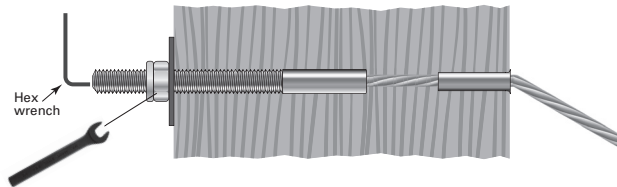
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6. Press the cap onto the lip of the Pull-Lock fitting.

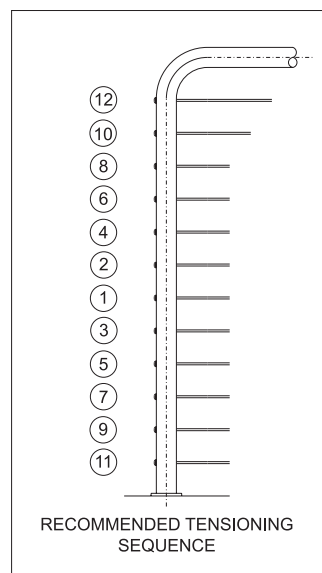


## F. Tension Cables

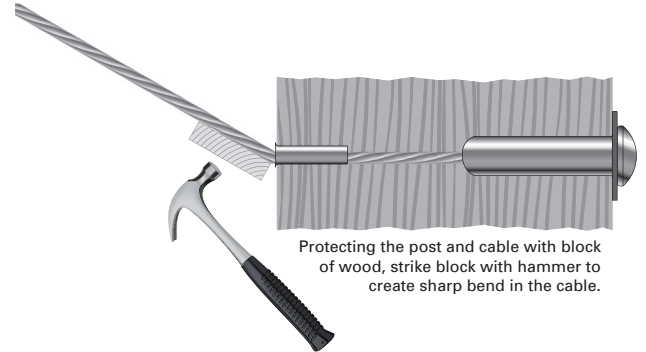
1. Return to the Threaded Stud end post. Insert an 1/8" hex wrench into broached opening on the tip of the stud. Tighten the locknut with a 7/16" wrench while holding the hex wrench to prevent the stud from turning.



2. Tension all cables to desired amount in sequence, beginning with the top and bottom cables, moving up and down toward the center.

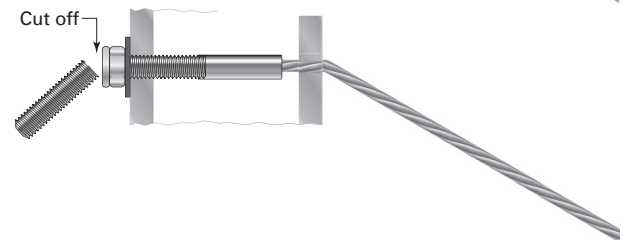
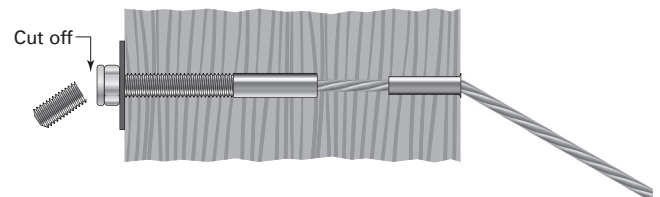


3. At both ends of the run, you are going to create a sharp bend in the cable where it exits the post (post protector tube in the wood post) by placing a block of wood (for protection of the post) on the cable next to the post / tube at the face of each post and striking it with a hammer.



If tension has diminished slightly as a result of the bending of the cable, re-tension the threaded stud back up to desired amount, as in Step F-1.

4. When all of the cables are tight, cut off any exposed thread as near to the locknut as possible by using a cut-off wheel or hack saw.



5. If you have purchased the optional nut cap, press the cap over the locknut.

