

# Wire Tend (N) 【Work Instruction】 Horizontal tensioning

\* The installation procedure is the same for both horizontal and slope tensioning.

\* To re-tighten: Remove the security cover, loosen the positioning nut, and turn the threaded metal fittings to tighten.

① Sleeve for threads is fastened with the attached bolt

For both ends and connection: Drill holes: 11~12 mm dia.

② Fasten the terminal fittings already set on the wire with bolts

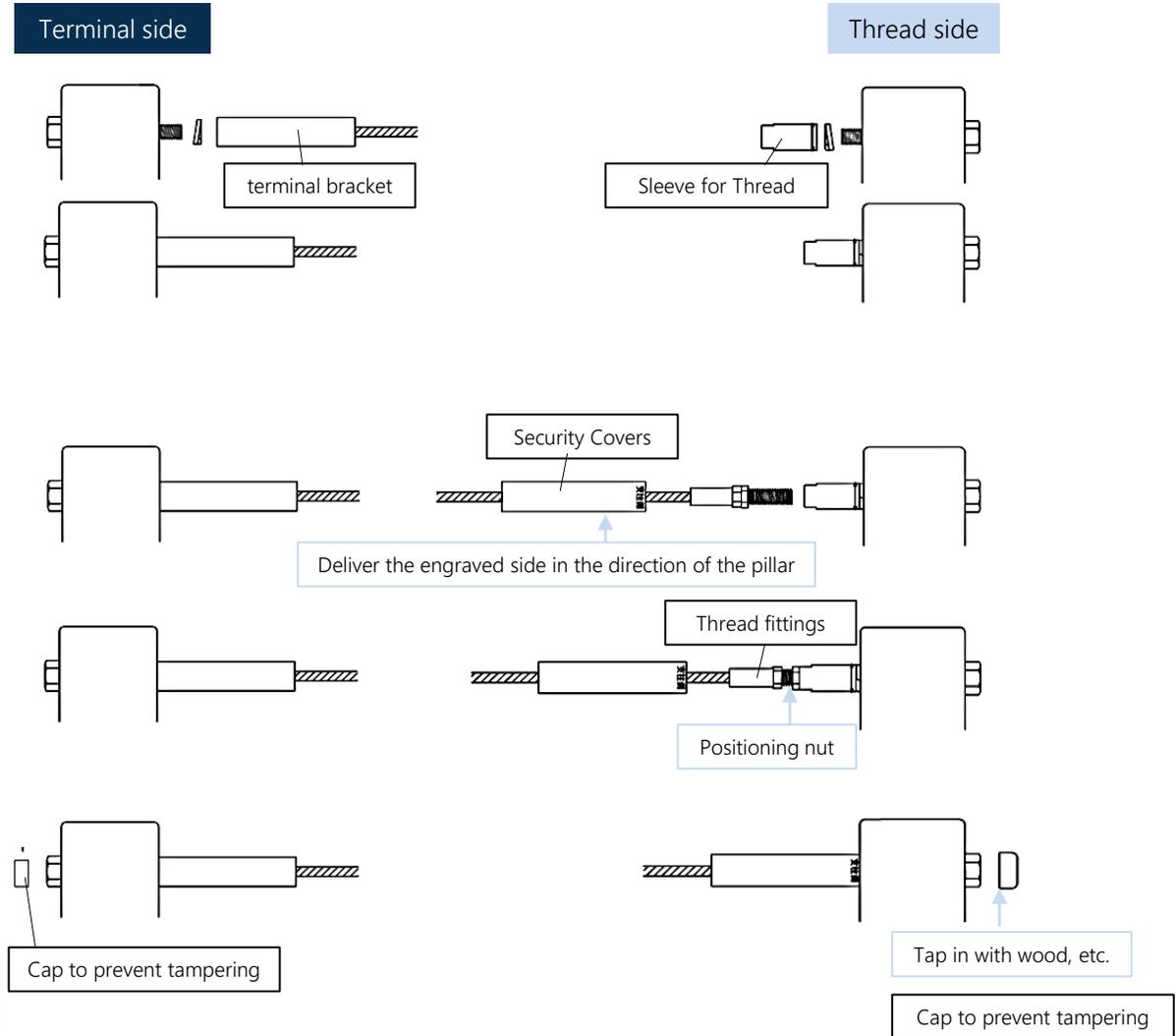
③ Pass the security cover through. At this time, be sure to place the side marked with the pillar side in the direction of the pillar.

④ Fix the thread fittings to the sleeve for threads.

Tension the wire to the appropriate strength and tighten firmly with the positioning nut.

⑤ After confirming proper tension, tighten the security cover until it clicks into place.

(Excessive tension may cause the post to bend.)



# Wire Tend (N) 【Work Instruction】 Construction of joint part

\* The installation procedure is the same for both horizontal and slope tensioning. Be sure to install from the terminal bracket.

\* To re-tighten: Remove the security cover, loosen the positioning nut, and turn the threaded metal fittings to tighten.

① Fasten the sleeve for threads with the bolt provided, and set all screws to the terminal bracket already set on the wire.

For both ends and connection: Drill holes: 11~12 mm dia.

② Thread all screws through the holes in the support pole and secure the terminal bracket with the sleeve for threads.

③ Pass the security cover through. At this time, be sure to place the side marked with the pillar side in the direction of the pillar.

④ Fix the thread fittings to the sleeve for threads.

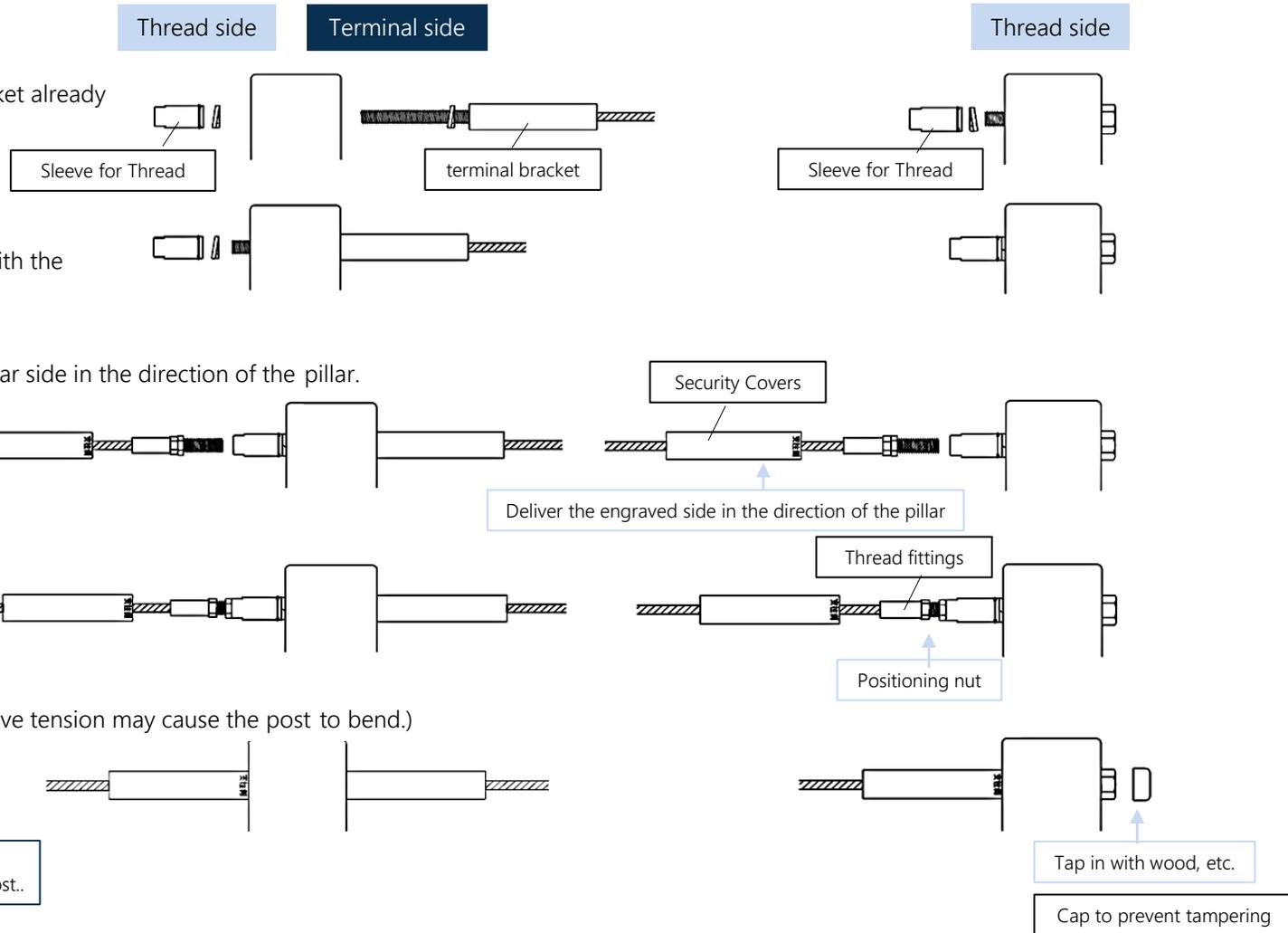
Tension the wire to the appropriate strength and tighten firmly with the positioning nut.

⑤ After confirming proper tension, tighten the security cover until it clicks into place. (Excessive tension may cause the post to bend.)

To adjust the wire length due to an error between the posts, insert an Allen wrench or similar tool into the hole of the adjustment screw and turn it left or right while the metal fitting is removed from the post.



Adjustment allowance: ±10mm approx.



# Wire Tend (N) 【Attention】

## Precautions for installation

- Commercially available wrenches can be used for installation. (13mm, 14mm, 17mm)
- Tension adjustment is performed on the thread side. However, any errors in the dimensions between the posts can also be adjusted on the terminal side.
- When removing the security cover for maintenance, etc., grasp the cover and pull it horizontally. (If it is difficult to remove, use rubber gloves or other non-slip material.)
- M10 bolts are used for installation. The hole for the support pole should be drilled to  $\phi 11-12$ . However, if an intermediate post is provided and a wire protection pipe for the intermediate post (pipe diameter  $\phi 16$ ) is used, the drilled hole should be  $\phi 17$ . In the case of FB, if joint bolts are not used for the intermediate strut, the drilled hole should be  $\phi 14$  or more.
- Attach the supplied tamper-evident cap to the head of the end bolt after all installation is completed. When attaching the cap, tap it into place with a wooden pad or the like.
- When installed on a wooden post, the dimensions may change due to drying over time. Re-tighten the caps approximately 3 to 6 months after installation.

## Notes on ordering

- Wire lengths (with threading hardware) are manufactured based on the dimensions between the posts. When ordering, please inform us of the inside or core dimensions of the support columns.
- Almost all shapes, materials, and dimensions of support poles, such as flat bars, round pipes, square pipes, and wooden poles, can be accommodated.
- The material is SUS304. When used in coastal areas, SUS316 is available by special order.
- Since this product is designed to be used in a system and safety is taken into consideration, individual parts are not sold separately.
- If there is a support pole in the middle, we recommend the use of a wire protection pipe for the middle pole to protect the wire. (Support pole: square pipe, round pipe)
- End bolts and joint bolts are sold separately.
- Test values are for wire diameter  $\phi 6$ . ( $\phi 5$  is also available)
- Wire cannot be cut on site.
- Although rust-resistant material is used, rust may occur depending on the installation location and environment. However, even if rusting occurs, there is no functional problem.