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Model 506R

Fiber Interface and Reeled Fiber Distribution Unit, Installation Note

Description

The 506R Fiber Interface Device is a compact unit that provides demarcation between the OSP fiber drop and customer distribution fiber. The unit is preloaded with connectorized fiber stored on a rotating reel for distribution into the home, facilitating a fast FTTH deployment.

Installation

1. Mount the 506F vertically on a flat surface using appropriate hardware:
 - a. Internal with screws: Secure through four internal mounting holes that are covered with an easy to punch through film of plastic that maintains the environmental integrity of the enclosure. To use internal holes, Reel assembly and Reel Mounting Plate first need to be removed (Figure 2).
 - b. External with screws: Secure through top and bottom external mounting ears.
 - c. Pole mounting with straps: Strap to a pole using external mounting ears and industry appropriate mounting straps.

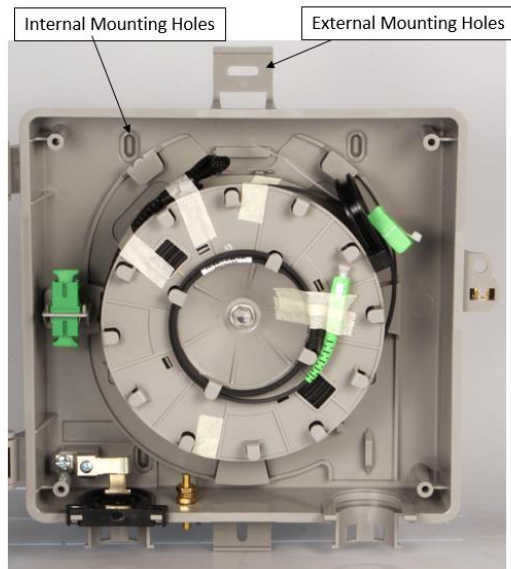
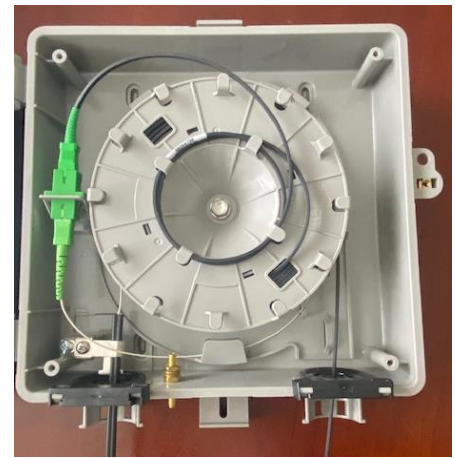


Figure 1



2. The assembly is shipped with the cable passed thru the grommet. Remove the tape holding end of pull sock if unit is equipped with one; if not skip to #3. (Figure 2).

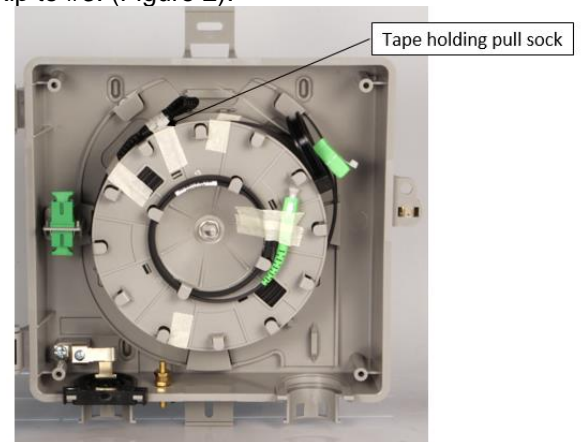


Figure 2

3. Remove the Reel Assembly by loosening the Center Screw and pulling the Reel outward. Do not remove screw (Figure 3).



Figure 3

4. Punch a hole through the left cable entry grommet and guide the Drop Cable through the hole. Cut the Drop Cable, leaving at least 1 meter of slack inside the unit.
5. Mark the cable just above the strength member clamp. Strip cable jacket at this point, exposing the internal 900u fiber.

6. Secure the jacketed cable using the strength member clamp (Figure 4).



Figure 4

7. If a tracer wire is being used, connect it to the internal Ground stud and connect AC Safety ground to the external Ground stud.
8. Field Terminate or splice the 900u Fiber per standard company practice. 3mm splice sleeve holders are provided on the lower plate (Figure 5).



Figure 5

9. Route and secure the 900u fiber slack clockwise, and plug the SC Connector into the provided SC Adapter (Figure 6)



Figure 6

10. Snap the Reel into the lower plate, partially tighten central screw while still allowing Reel to rotate (Figure 7).



Figure 7

11. Install the right grommet with cable passed through, and dispense and route the desired amount of cable. **Always pull the cable by the black jacket – never pull on the SC connector.** Pull sock can be removed at any time by releasing the tape holding it to the fiber.
12. Adjust final cable tension by hand rotating the Reel, and tighten the Center Screw to lock the Reel in place. Secure the Distribution Fiber cable with a tie wrap (Figure 8).

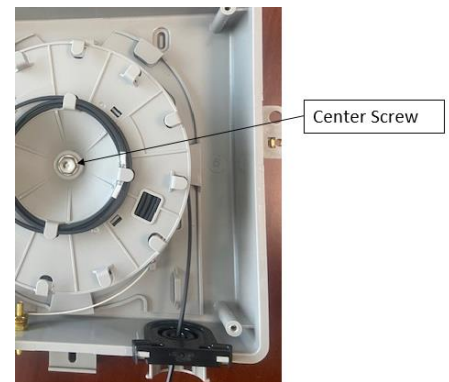


Figure 8.

13. Route the excess fiber on top of the Reel and secure under the slack retention fingers. Remove dust cap and plug the SC connector into the top of the SC Adapter (Figure 9).

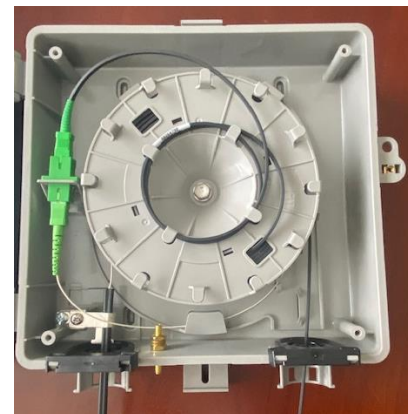


Figure 9

14. Close and secure the cover by tightening the hex screw until snug, taking care not to over tighten.