

### Application Note

### FUSEConnect® LC – Proper Housing Assembly with Slider Modification

AFL has recently modified the FUSEConnect LC slider (the black tubular section of the boot unit). The product has been modified from two tabs (Figure 1) to one tab (Figure 2) on the tip of the part. This change has no impact on functionality or assembly of the connector. This change is permanent and implemented fully in production. This Application Note covers the proper assembly method for the **current** housing with slider modification and is shown below.

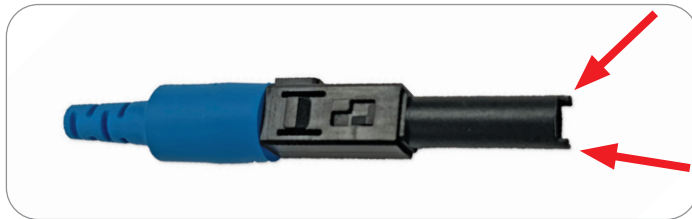


Figure 1. Two Tab (old)



Figure 2. Modified Boot Unit with One Tab (current)

This tab is used to align the ferrule flange assembly with the boot prior to assembling the housing. If the tab is not properly positioned within the flange assembly, it will cause misalignment during the final termination process. The change from two tabs to one has no effect on the ability to properly complete this step in the termination process. Continue reading for proper assembly instructions using the single tab slider.

### Connector Details



Figure 3. Boot Unit

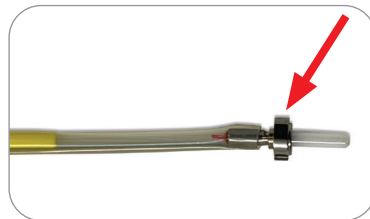


Figure 4. Ferrule Flange

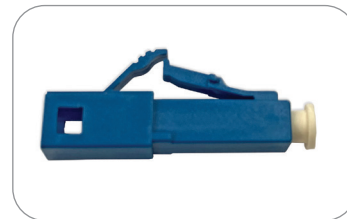


Figure 5. Connector Housing

### Assembly Process

To help alleviate any installation errors, it is critical to put light tension on the fiber behind the boot unit to keep the slider and ferrule flange aligned properly while assembling the connector housing. This can be done by first aligning the boot housing and flange correctly (Figure 6).

**NOTE:** For APC connectors, alignment of the tab and dot on the flange is critical to ensure the proper angle-to-key relationship.



Figure 6. Fully Seated with no gaps and the tab is in the flange groove.

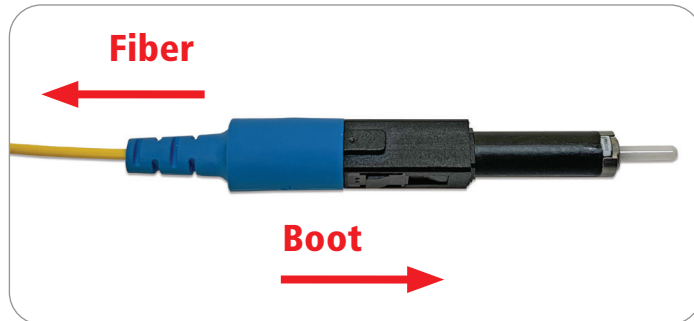


Figure 7. Improper alignment

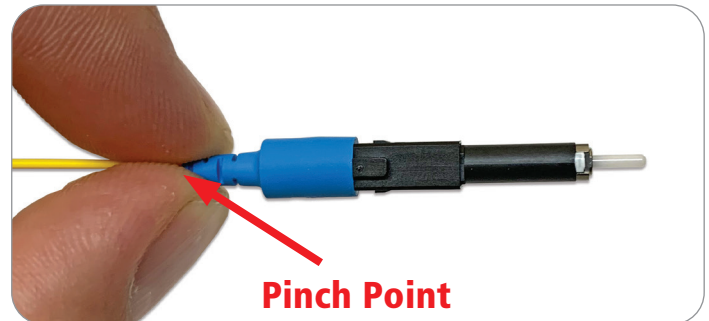
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While the boot housing and ferrule flange are seated correctly, apply light tension by pulling the fiber/cable behind the boot and pushing the boot toward the ferrule (Figure 8). This should be kept to a light fingertip tension.



*Figure 8. Pulling direction*

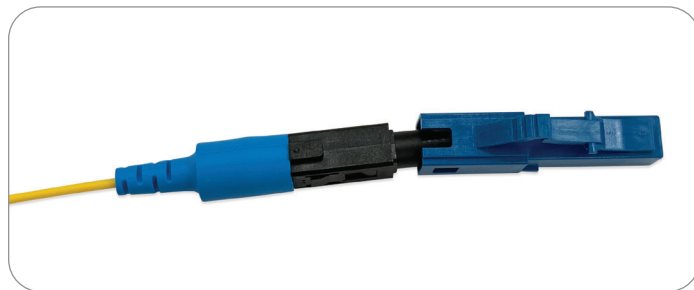


*Figure 9. Pinch fiber and boot at the meeting point*

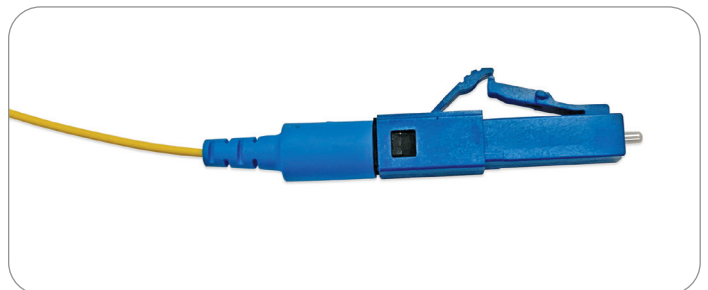
Once the light tension is applied, pinch the fiber and boot at the meeting point (Figure 9). This will keep the tension and allow the second hand to click the connector housing on.

### Assemble the Connector Housing

Start assembling the connector housing onto the boot unit using instructions in package. If the ferrule does not appear to be centered in the connector housing, stop and check the tab/flange mating before assembling the outer housing completely.



*Figure 10. Slide the connector housing onto the boot*



*Figure 11. Final Assembled Connector*