

## FuseConnect® Connectors: APC Housing Assembly

Installation notes for housing assembly of APC style FuseConnect connectors.

This applications note is for the termination of FuseConnect single fiber, splice-on connectors that have an APC polish. Assembling the housing of the connectors is critical in order to achieve proper angle orientation of the ferrule. Housing assembly occurs after splicing and applying the protective heat sleeve to the splice. The following instructions are to be performed after applying the heat shrink to the splice. Instructions up to this point can be found in the installation instructions included with each kit of six connectors.

Table 1 shows the part numbers whose housings must be assembled according to the instructions below.

AFL Part Number	Description	Assembly Method
FUSE-SC9SMA-6	FuseConnect SC-APC, SM, 900um	A
FUSE-LC9SMA-6	FuseConnect LC-APC, SM, 900um	A
FUSE-FC9SMA-6	FuseConnect FC-APC, SM, 900um	A
FUSE-LC2SMA-6	FuseConnect LC-APC, SM, 2mm	A
FUSE-SC3SMA-6	FuseConnect SC-APC, SM, 3mm	B

**Method A:** This method shows step-by-step instructions for the FUSE-SC9SMA-6, FUSE-LC9SMA-6, FUSE-FC9SMA-6, and FUSE-LC2SMA-6. The instructions will utilize the FUSE-SC9SMA-6 for pictures.

Step 1: Slide the boot assembly up to the ferrule. The red dot on the ferrule flange must align with the white dot on the boot unit. Make certain that the ferrule unit is seated properly in the boot unit as seen in Figure 2.

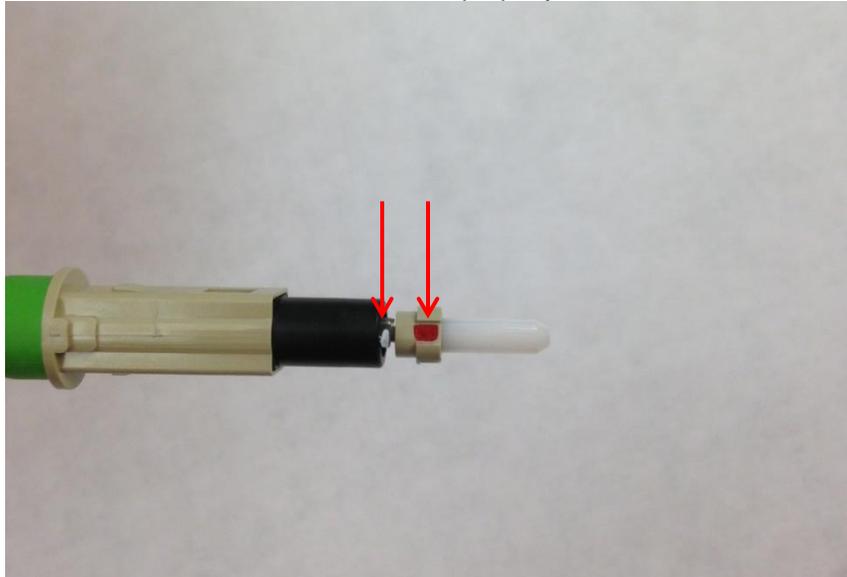


Figure 1

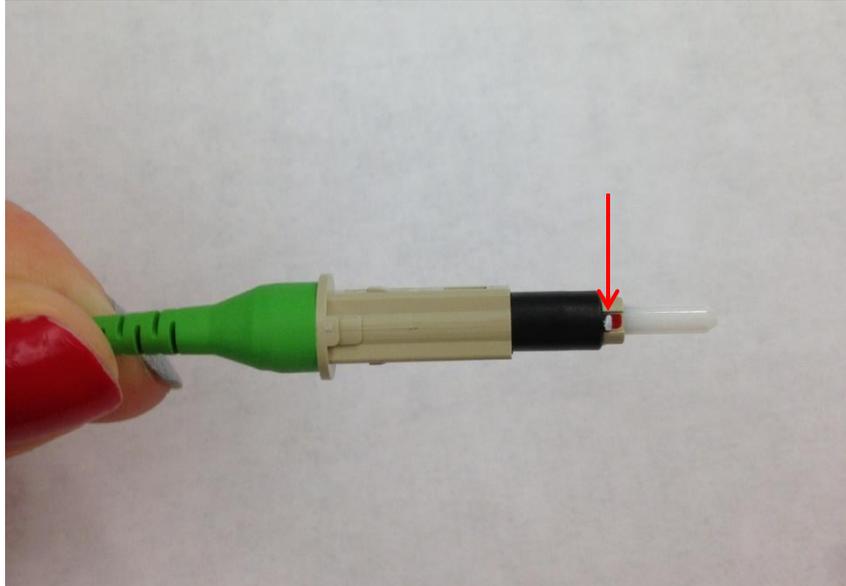


Figure 2

Step 2: Slide the connector housing onto the boot unit. The white dot on the boot unit, the opening in the housing, and the key on the housing should align. Push until an audible click is heard.

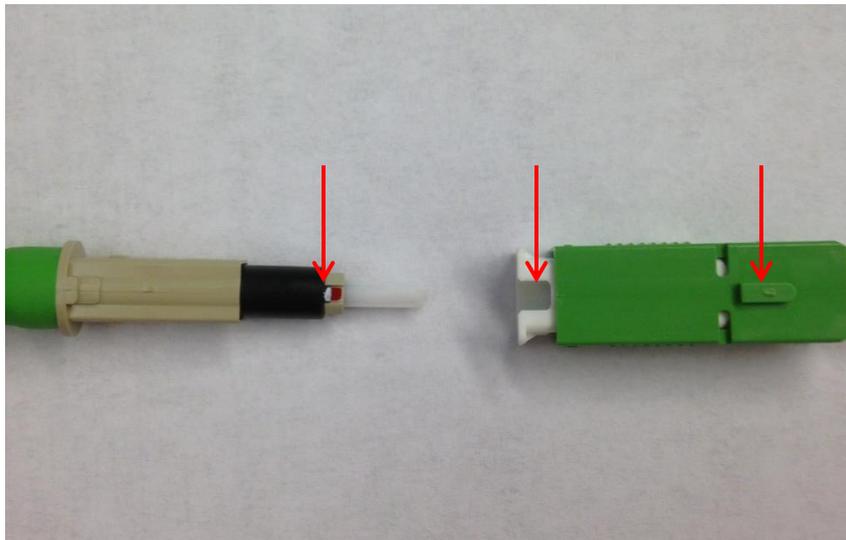


Figure 3

Step 3: Termination is complete.

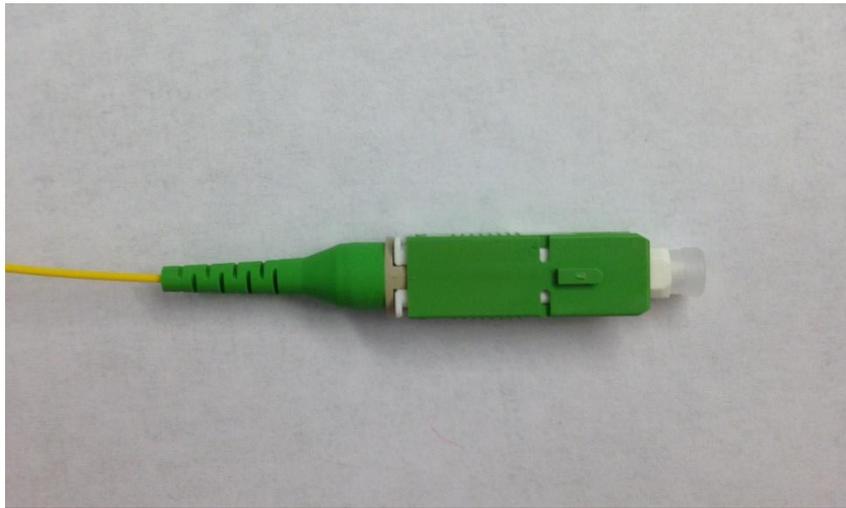


Figure 4

**Method B:** This method shows step-by-step instructions for the FUSE-SC3SMA-6

Step 1: Bring the boot up the ferrule unit. There are two “keys” on the boot unit. You can use either side with a key through these instructions. The key on the boot is highlighted in grey for visibility, while in reality it is black.



Figure 5

Step 2: The white connector body has beveled corners on the top and two “notches” on the inside. The connector body is hexagonal, looking similar to the shape of a house, from the end face as shown in Figure 7. The two inner notches can be seen in Figure 8. The key of the boot, the red dot on the ferrule, and the beveled face of the housing should align. The two notches must align with the openings on either side of the red dot on the ferrule show in Figure 9. The ferrule will not protrude properly from the housing if the notches are misaligned as shown in Figure 10. When everything is aligned properly push until an audible click is heard.

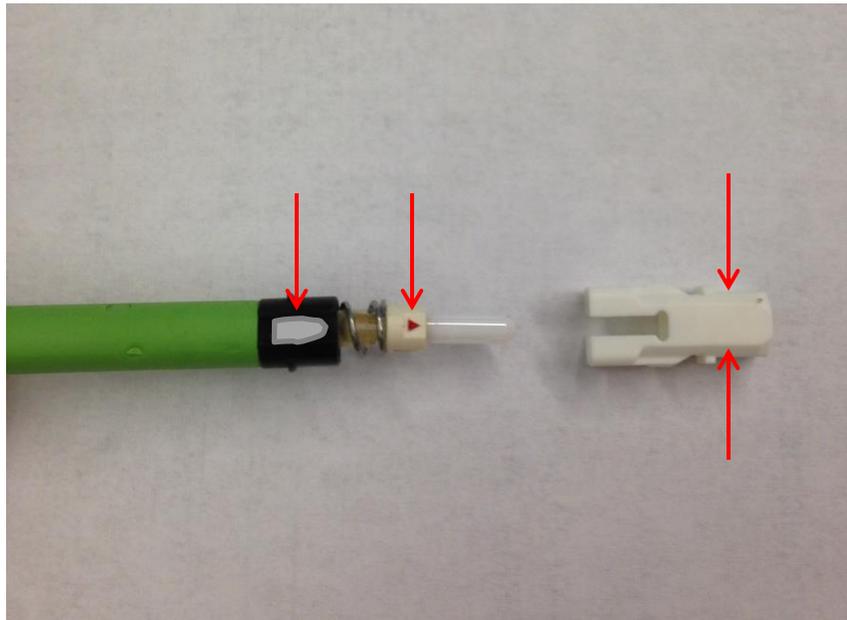


Figure 6

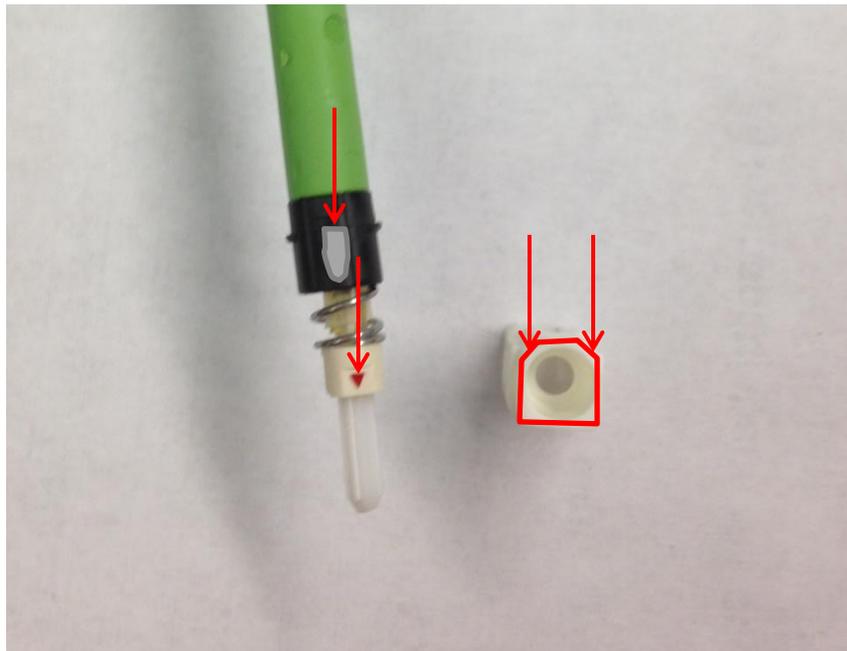


Figure 7

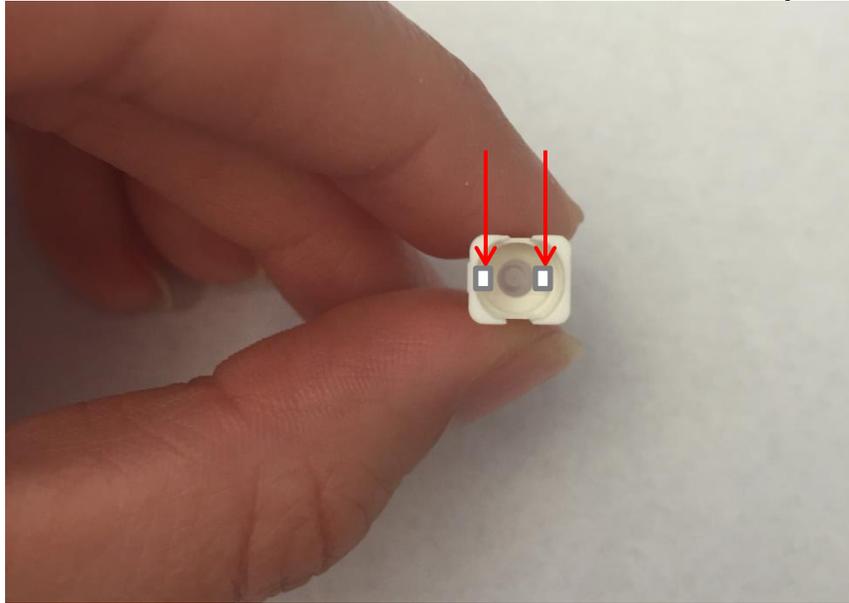


Figure 8

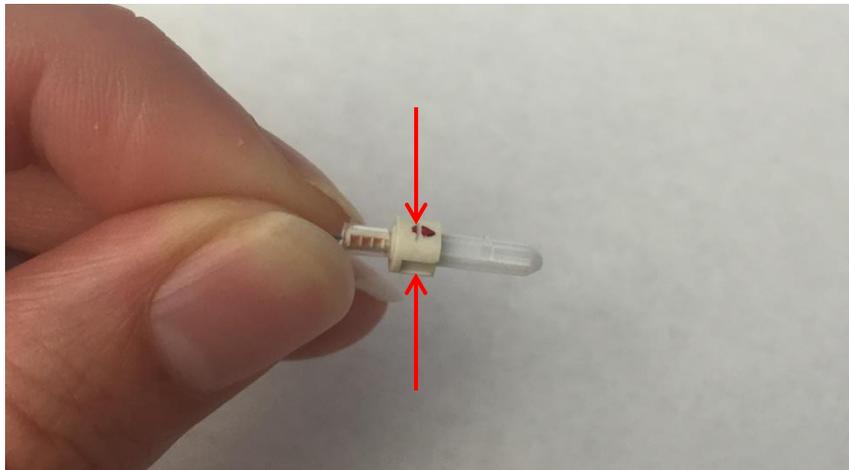


Figure 9

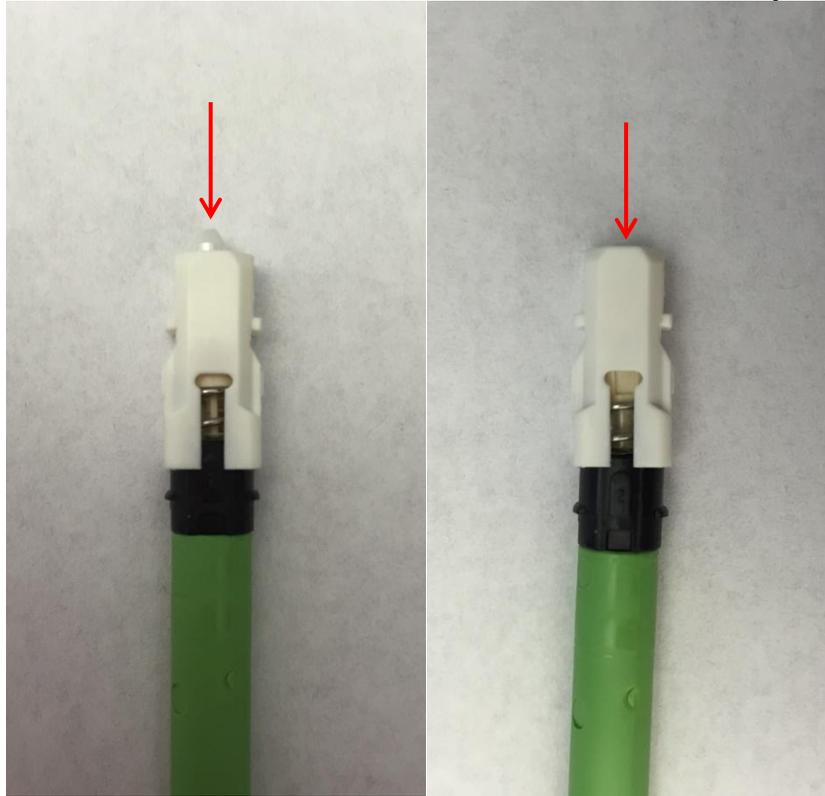


Figure 10: Left-good, Right-bad

Step 3: The key of the connector housing and the beveled face of the connector body should align. Insert the hexagonal shape of the body into the house with the correct orientation. Push until an audible click is heard.

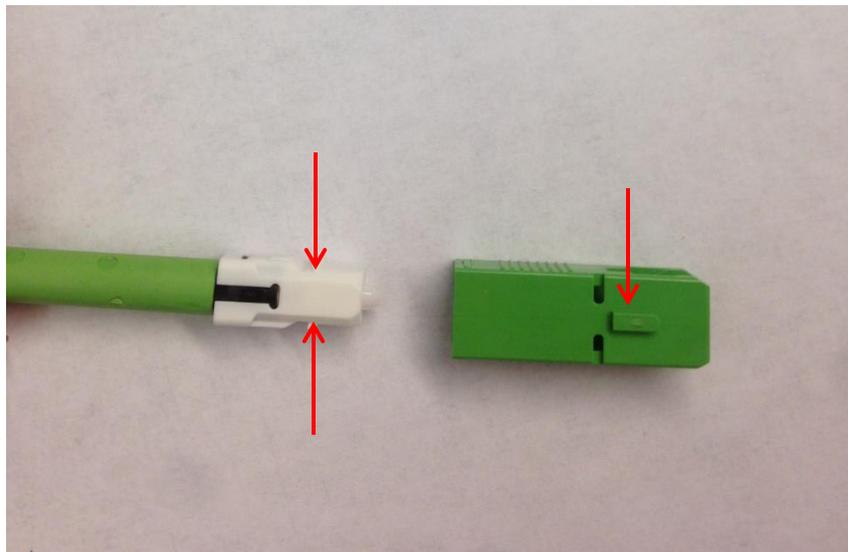


Figure 11

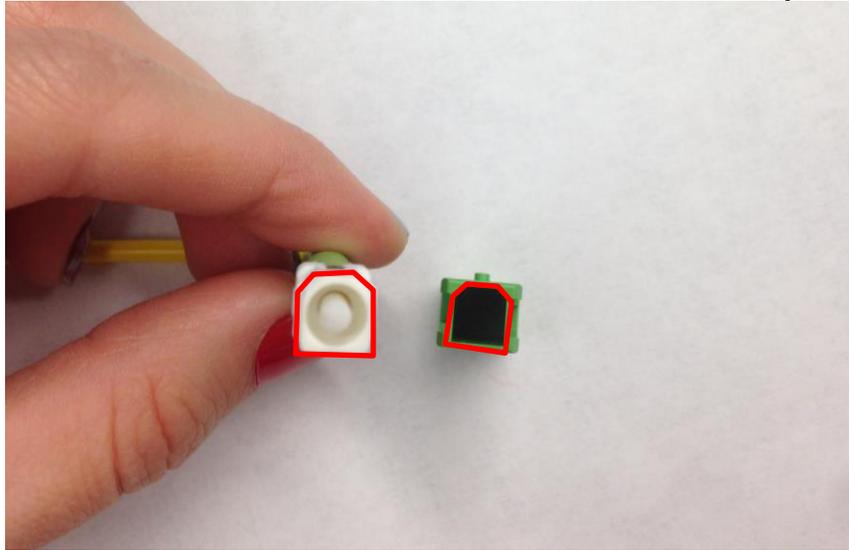


Figure 12

Step 4: Termination is complete.

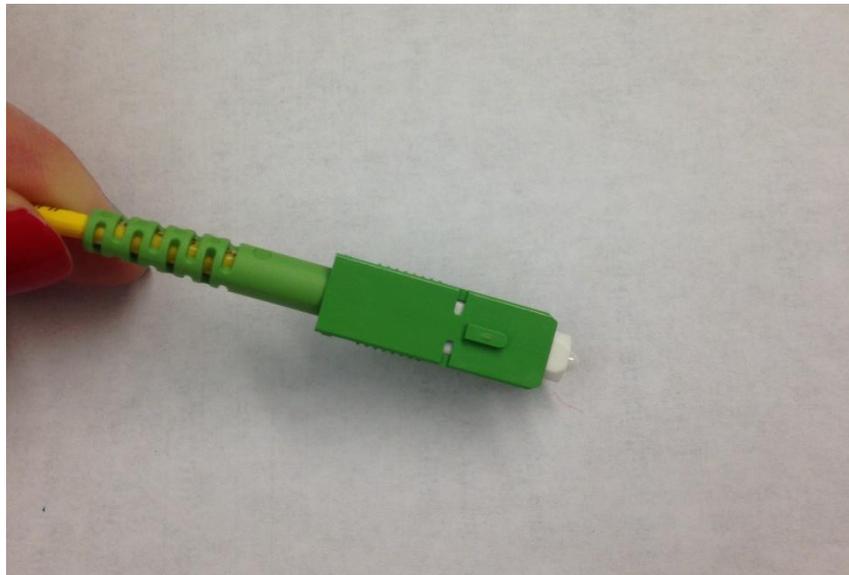


Figure 13