

Each Surelight H IP field installable kit contains the SC/APC connector with boot, fiber crimp, H IP connector collar, two collar clamps, threaded coupler, dust cap, connector assembly boot, tether, heat shrink, O-rings and clip spring. Optional template fixture is available in specific kits and sold separately. The Surelight fixture is to help assist in connector assembly quickly and accurately.



Figure 1.1

## 1.1 Fiber Preparation (Flat, Round & ROC Drop)

Before assembling the H IP connector, the fiber needs to be stripped back using the appropriate tools (flat drop assembly shown, round/ROC drop uses a different fixture but is similar). Strip back at least ~5" (127mm) (same width of fixture) of the jacketing removing both the cut jacketing and any exposed central strength members (CSM) with side cutters while wearing the safety appropriate glasses and/or gloves. Slide the following items onto the jacketing before termination of the fiber in this order (See Figure 1.1):

- Connector assembly boot with the tether attached on one end and dust cap attached on the other end as shown.
- Threaded Coupler with threads facing towards the exposed fiber end as shown.
- Heat Shrink
- Fiber Crimp

## 1.2 Fiber Stripping

Trim the exposed buffer tube jacketing to 55mm (Step 1 on Fixture). Using the appropriate fiber stripper trim the 3mm buffer tube 6.4mm from the outside jacketing down to 900µm fiber. Expose the 900µm 31.5mm from the end of the 3mm buffer tube. Then remove the 250µm wax coating 17mm to expose 125µm bare fiber. Clean the bare fiber using alcohol wipes to have the minimal loss possible. Then mark and cleave the exposed fiber at the 17mm mark.

Figure 1.2

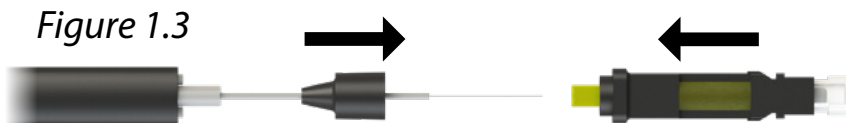
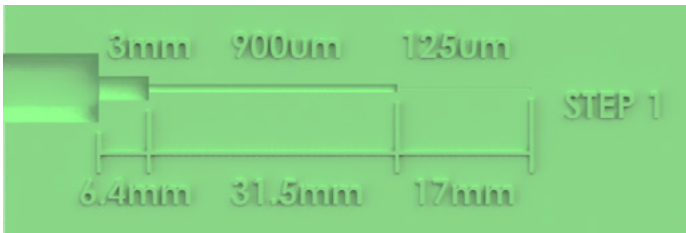


Figure 1.3

## 1.3 Install Connector

Place SC/APC connector boot onto exposed 900µm buffer tube. Remove the clip on connector and ensure window is open before installing fiber. Ensure the jacketing is flat in the fixture before connectorizing. Insert the 125µm bare fiber into the connector until you feel resistance from the internal connector wall (Step 2 on Fixture). Then press down on the connector window to lock the fiber in place. Check to verify the fiber is in place then push the boot in place to the connector.

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## 1.4 Fiber Seat Testing

Remove the dust cap and apply the testing light source to the connector. The window should have a dim glow ensuring the fiber is properly seated (Figure 1.4a). Remove the testing light source and place the dust cap back on. If the window is glowing bright red the fiber is not properly seated (Figure 1.4b). Attach the retainer clip, remove the connector and repeat the connector installation steps.

Figure 1.4a



Figure 1.4b



## 1.5 Put Crimp in Place

Slide up the fiber crimp 3.00" from the end of the fiber connector (Step 3 on Fixture). Once in place use a pincher tool to crimp one side enough to stay in place. Then rotate the fiber in order to crimp the opposite side. Ensure each side is equally crimp and will not slide on the fiber jacketing.



Figure 1.5

## 1.6 Install Collar Clamps

Attach the two provided collar clamps using the crimp as a guide in the orientation as shown (See Side Info on Fixture). Each piece goes into one other, press firmly together to hold into place.

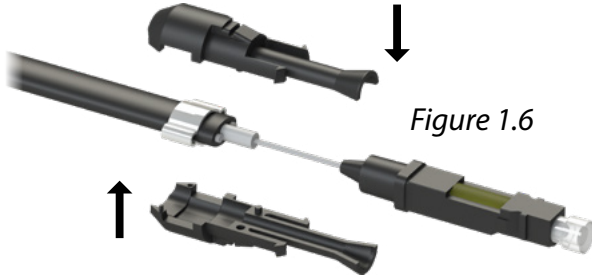


Figure 1.6

## 1.7 Attach Collar in Place

Slide the collar in the orientation lining up with the window of the connector, ensuring the connector will pass through fully, and will connect in place to the collar clamps (See Side Info on Fixture) by a click sound under the metal clip. Make sure they are in place before continuing.

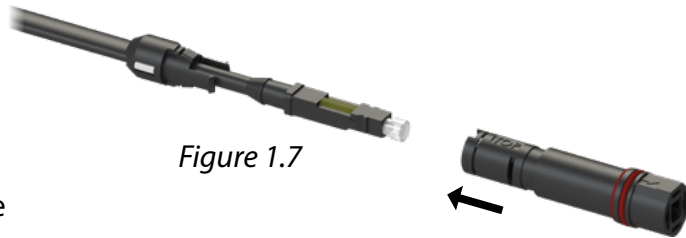


Figure 1.7

## 1.8 Heat Shrink in Place

Slide up the heat shrink that was previously placed on the fiber jacket before termination. Ensure the heat shrink is flush up against the collar before heating up as shown.



Figure 1.8

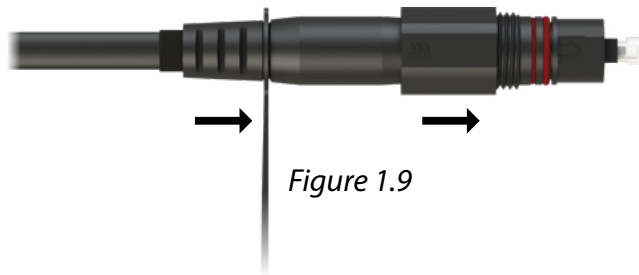


Figure 1.9

## 1.9 Finalize Assembly

Slide up both the threaded coupler and connector assembly boot (which also includes the tether with dust cap) that was previously placed on the fiber jacket before termination. Coupler should be flush with the O-rings located on the collar. Push up the boot to be under the coupler as far as possible.

## 1.10 Attach Dust Cap

Place the tethered dust cap on top of the collar and then twist the threaded coupler into the dust cap. Ensure this is tighten enough to prevent any dust or material from coming in contact of the fiber connector.

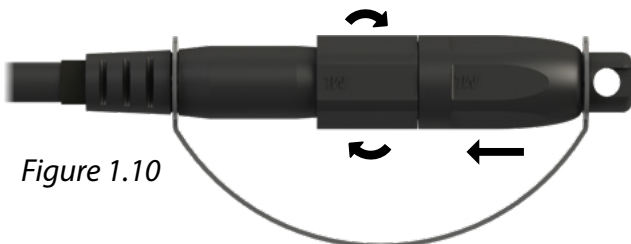


Figure 1.10