



**Note:** This Fusion Splice Connector is compatible with 900µm buffered optical fiber.

This Fusion Splice Connector Contains the Following Items:

- A. (1) Universal dust cap with extension handle
- B. (1) Outer housing (SC style only)
- C. (1) Cleave alignment Key tab (ST only)
- D. (1) Splice-On Connector (SOC) pigtail with cleave protector and fiber alignment sleeve
- E. (1) 27mm mini splice sleeve
- F. (1) Universal strain relief boot
- G. (1) Fiber positioning tool (Not Pictured)

**Note:** If fiber protector sleeve has become separated from the connector body, do not attempt to re-install, discard it and continue.



### CABLE PREPARATION

Slide the 900µm strain relief boot and the 27mm mini splice sleeve onto the 900µm field fiber. Strip, clean, and cleave the field fiber to a 10mm cleave length. Insert the cleaved fiber into the left-hand fiber holder of the fusion splicer. Make sure to butt the 900µm buffer up to the edge of the fiber holder. This will ensure that the mini splice sleeve will fit properly.

### INSTALLATION

**1. Remove the factory dust cap from the connector.**

Note: The extended dust cap may be placed on at this time, to aid in the transfer of the connector. DO NOT LEAVE THE EXTENDED DUST CAP ON THE CONNECTOR, INSIDE THE FUSION SPLICE MACHINE.

**2. While holding the connector firmly, pull down on the cleave protector to remove it from the connector (Figure 1).**

Note: Do not touch the cleaved fiber stub with the protector or fingers as this may damage or contaminate the factory cleave.



Figure 1

**3. Insert the connector into the Fusion Splice Connector Holder so that the back end of the connector is flush with the end of the holder (Figures 2-5). Once aligned properly, the connector should fit freely into the holder with no force required.**

Note: Use the proper connector holder for the fusion splicer being used.

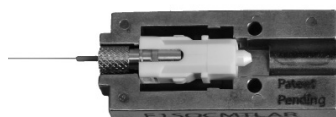


Figure 2 (SC)

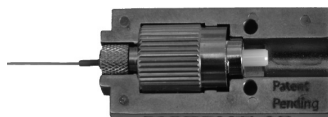


Figure 3 (FC)

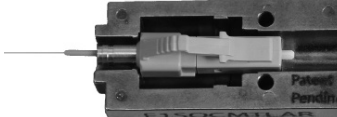


Figure 4 (LC)

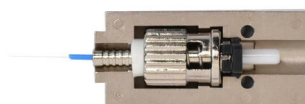


Figure 5 (ST)

**4. Insert the holder into the right hand side of the splicer (Figure 6), being sure that the fiber stub lays properly into the v-groove block of the splicer (Figure 7). Use the fiber positioning tool to help align the fiber in the v-groove.**

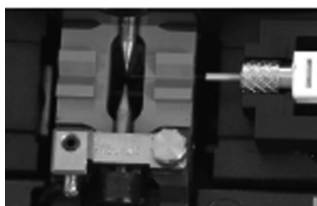


Figure 6

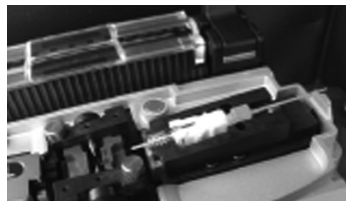


Figure 7



SC Connector

Figure 8

**5. Perform the fusion splice as described in the fusion splicer manufacturer's instructions.**

**6. Once the fusion splicing cycle is completed, remove the connector from the splicer and slide the splice protection sleeve up to cover the splice. An equal amount of the sleeve should cover the 900µm buffer on either side of the splice.**

Note: The extended cap may be put in place now to aid in the transfer to the splice sleeve oven.

**7. Transfer the splice to the splice sleeve heat oven. Verify the position of the splice sleeve and initiate the heat cycle.**

Note: The Splice Sleeve Oven is specifically designed for use with the fusion splice Connector. Re-check the correct position of the protection sleeve on the fiber, then lower the oven shield. Press the "START" button to run the shrink cycle.

**8. Verify that the splice protection sleeve is completely shrunk onto the fiber to avoid the end catching on the strain relief boot. If the splice sleeve is not completely shrunk, then place it back in the sleeve oven and initiate a second heat cycle.**

Note: Make sure that the splice sleeve has fully cooled before sliding the strain relief boot into place. For SC connectors, install the outer housing onto the connector, being sure to align the angled corners of the inner housing with those of the outer housing (Figure 8).

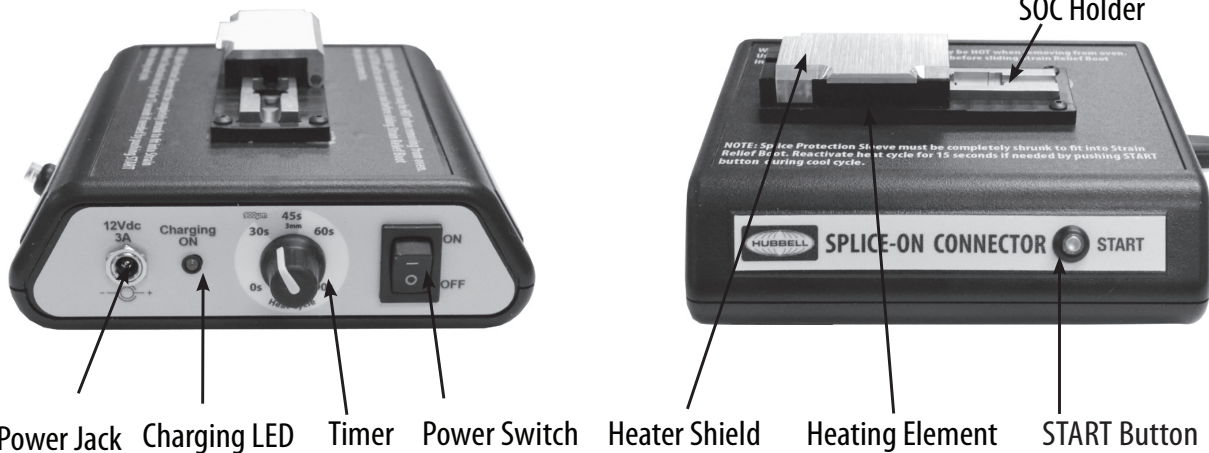
### Compatibility Chart:

The SOC adapter allows the 900 micron SOC to be used in the following fusion splicers:

Fusion Splicer Manufacturer	Fusion Splicer Model	Connector Fixture Catalog
AFL/Fujikura	12S, 17S, 18S, 19S, 31S	FCSPFXTA
	41S, 60S, 62S, 70S, 90S	
OFS/Fitel	S123, S153, S178	FCSPLXTF
	Ninja, S179	FCSPLXTF2
Sumitomo	Q101, Q102, T56	FCSPLXTS
	QH201, Type 66, Type 39	FCSPLXTS
FiberFox	Mini 6S, Mini 4S, Mini 5C	FCSPLXTCA3
FIS	AC4, AC5	FCSPLXTAC4
	CA3	FCSPLXTCA3
	CA6	FCSPLXTS

Control No.	HWS77710001	Page	2	of	2
Rev.	E	Date:	10/20/20		

## FCSPHSHOVEN: INSTRUCTIONS



### Instructions:

- 1) It is recommended to fully charge the unit before use.
- 2) Open the heater shield on the top of the unit.
  - a. For splice-on connectors (SOC), lay the connector in the SOC holder with the ferrule extending from the right side of the holder and the sleeve over the heating element. The SOC sleeve should be against the right edge of the heater, as close to the SOC holder as possible.
- 3) Close the heater shield.
- 4) Turn the oven ON with the power switch on the end panel. The START Button should illuminate on the front panel.
- 5) Set the desired heating time using the timer.
- 6) Press the START button. The START button will blink and the heating/cooling cycle will run automatically.
- 7) When the cycle has completed, the cooling fan will stop and the START button will stop blinking. Open the Heater Shield Cover and remove the splice sleeve from the oven.
  - a. If the sleeve did not fully shrink, pressing the START Button again during the cooling cycle (fan ON) will start a short finishing cycle. This may happen when ambient temperatures are very cold and the heater did not have time to reach full temperature.
  - b. Alternately, if the sleeve has shrunk completely before the cycle is over, pressing the START Button during the heating cycle will immediately switch the oven to the cooling cycle.

### Troubleshooting:

- 1) When the internal battery is reaching the end of its capacity, the START Button LED will turn blue, and continue normal operation until there is not enough power to complete another cycle.
  - a. The internal battery is capable of approximately 200 heating/cooling cycles. The oven can also be run on AC power while charging using the supplied adapter. The Charging LED will be lit while the battery is charging. A full recharge takes approximately 5 hours while the oven is not in use.
- 2) In the event of a potential or actual component failure within the unit, the START Button LED will alternately flash between red and blue before automatically shutting the oven down. After such an event, the power switch must be turned OFF and back ON to attempt the cycle again. If the same error occurs, contact Hubbell Premise Wiring for assistance.