

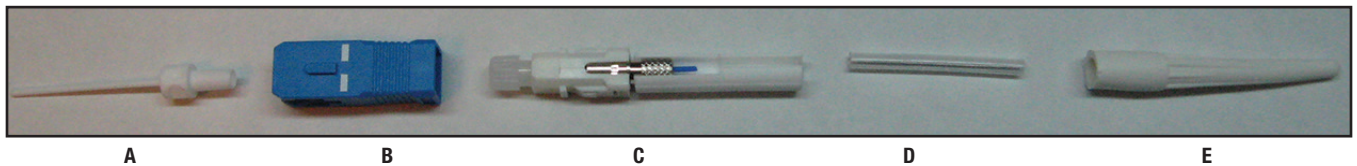
## Greenlee Splice-on Connectors

Note: This splice-on connector is compatible with 900  $\mu$ m optical fiber.

### Greenlee splice-on connector contains the following items:

- A. (1) Handle, each kit contains a limited number
- B. (1) Outer housing (SC style only)
- C. (1) Splice-on connector (SOC) pigtail with cleave protector and fiber alignment sleeve
- D. (1) 27 mm mini splice sleeve
- E. (1) Universal strain relief boot
- F. (1) Fiber positioning tool (not pictured)

Note: If fiber alignment sleeve has become separated from the SOC body, do not attempt to re-install; discard it.



### Cable Preparation

Slide the 900  $\mu$ m strain relief boot and then the 27 mm mini splice protective sleeve over the 900  $\mu$ m field fiber. Use the 910CL to cleave the field fiber. Insert the fiber adapter with the cleaved fiber into the left-hand side of the 910FS fusion splicer. Make sure to butt the 900  $\mu$ m buffer up to the edge of the fiber adapter. This will ensure that the mini splice sleeve will adhere to both sides of the 900  $\mu$ m buffer.

### Installation

1. Disable the "Proof Test" on the fusion splicer.
2. Remove the factory dust cap from the connector.
 

Note: The extended dust cap may be placed on at this time, if so desired, to aid in the transfer of the connector. **DO NOT LEAVE THE EXTENDED DUST CAP ON THE CONNECTOR, INSIDE THE FUSION SPLICE MACHINE.**
3. 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 your fingers as this may damage the factory cleave.

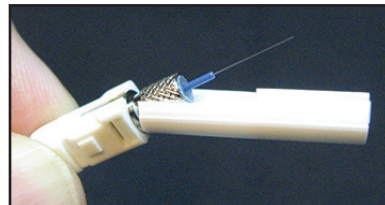


Figure 1

4. Insert the connector into the universal splice-on 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.



Figure 2 (SC)



Figure 3 (FC)



Figure 4 (LC)

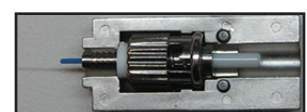
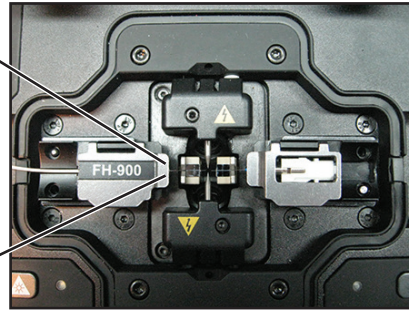
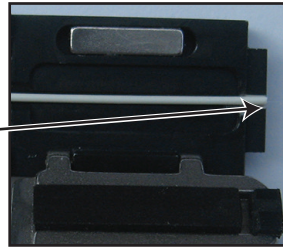


Figure 5 (ST)

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5. Insert the holder into the right-hand side of the splicer (Figure 6), making sure that the fiber stub lays properly into the V-groove block of the splicer. You may use the fiber positioning tool to help align the fiber in the V-groove. The fiber for FC and ST splice-on connectors must have the fiber laying in the end of the fiber groove in the V-groove. The fiber positioning tool can be used to align the fiber with the V-groove. Turning the fiber and/or the connector may also be necessary to accomplish this. The FC/ST fiber adapter may also need to be twisted slightly to ensure that the fiber is aligned with the V-groove.

Note: Make sure that the edge of the 900 micron tight buffer is even with the edge of the 900 micron fiber adapter.



Note: Remove the extended dust cap before initiating the fusion splice.

Figure 6

6. Perform the fusion splice as described in the fusion splicer manufacturer's instructions.
7. Once the fusion splicing cycle is completed, remove the connector from the splicer and slide the splice protection sleeve up to cover the splice. Make sure that the splice protector is positioned against the connector body.

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

8. Transfer the splice to the splice sleeve heat oven on the right-hand side (Figure 7). Verify the position of the splice sleeve is butted up against the metal portion of the splice-on connector. Use the 60 mm heater mode #1 with center and edges activated. Press the **HEAT** button to run the shrink cycle.
9. 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).

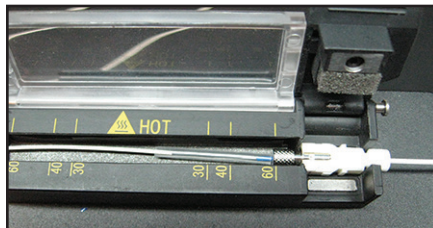


Figure 7

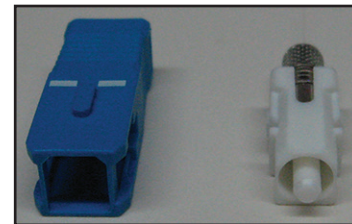


Figure 8

## Compatibility Chart

The Greenlee SOC adapter allows the Greenlee 900 micron SOC to be used in competitors' fusion splicers.

Manufacturer	AFL			Sumitomo	Fitel	INNO	FIS
Model	FSM11 (S/M)	FSM-17S	FSM-18S	Type-25e (U/S/M)	S122(A/C/M/)	IFS10	CA3
			FSM-19S	Type-39FH	S121 (A/M)	IFS15	
			FSM-60(S/R)	Type-46	S123 (C/M)		
			FSM-70(S/R)	Type-66	S153		
			Quantum (Q101-CA)	S178A			
<b>Compatible fiberTOOLS™ SOCs</b>	All versions	SC and LC only	SC, LC and ST only	All versions	All versions	All versions	All versions
<b>Greenlee SOC Adapter</b>	<b>52075260</b>	<b>52075260</b>	<b>52075260</b>	<b>52075282</b>	<b>52075281</b>	<b>52075283</b>	<b>52075284</b>

Visit [www.greenleecommunications.com](http://www.greenleecommunications.com) for an updated compatibility list and a video demonstration of the SOC.