INSTALLATION INSTRUCTIONS CHEETAH SPLICE-ON CONNECTORS

Note: This Splice-On Connector is compatible with 900µm optical fiber.

The Cheetah Splice-On Connector Contains the Following Items:

A. (1) Universal dust cap with extension handle
B. (1) Outer housing (SC style only)
C. (1) Splice-On Connector (SOC) pigtail with cleave protector and fiber alignment sleeve
D. (1) Cleave alignment Key tab (ST only)
E. (1) 27mm mini splice sleeve
F. (1) Universal strain relief boot
G.(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 and continue with cable preparation (SC and LC styles only.)

SOC BLISTER PACK OPENING INSTRUCTIONS

DO NOT PUSH THROUGH THE PLASTIC
PLEASE OPEN FROM THE BACK

Locate the perforation on the center of the cardboard.

Place your fingers on the back of the card and fold at the center.

The perforation will split, then simply peel back the cardboard "wings" to remove the connector.

CABLE PREPARATION

Slide the 900µm strain relief boot and then the 27mm mini splice sleeve onto the 900µm field fiber. Strip, clean, and cleave the field fiber to a 10mm cleave length per standard fiber optic stripping practices. 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 adhere to both sides of the 900µm buffer.

INSTALLATION

1. 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.

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 your fingers as this may damage the factory cleave.

** Note: (ST) Only after you have completed the splice with the ST connector should you remove the alignment key tab.

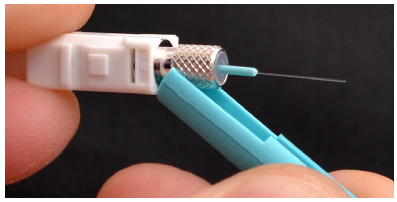
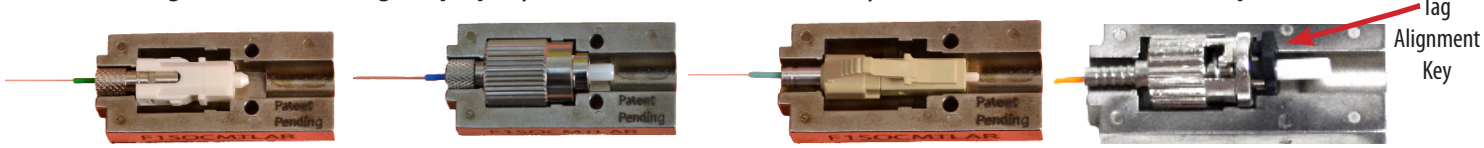


Figure 1

3. 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.



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). You may use the fiber positioning tool to help align the fiber in the v-groove.

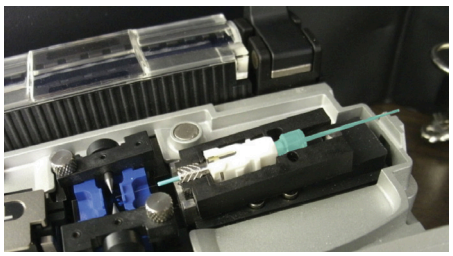


Figure 6 (Note: Remove the Extended Dust Cap Before Initiating the Fusion Splice)

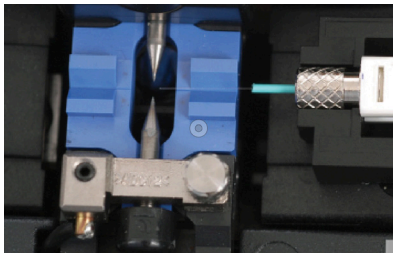


Figure 7

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 on board or stand alone.

Note: The Universal SOC Oven is specifically designed for use with the Splice-On 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 (Figure 8).

Figure 8: Oven

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 9).

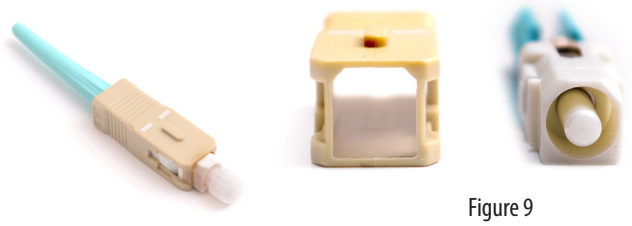


Figure 9

Compatibility Chart:

This chart is for reference of compatibility of a variety of splicers and styles of Cheetah SOC.

Manufacturer	Splicer Model	Connector Holder Part Number
FIS	CA3	F1SOCMTLCA3
	AC4	F1SOCMTLAC4
	AC5	F1SOCMTLAC5
AFL/Fujikura	31S	F1SOCMTLA
	41S	
	19S	
	62S	
	70S	
Furukawa/Fitel	S153	F1SOCMTLF
	S178	
	S179	F1SOCCAF2
	Ninja	
Sumitomo	Q102-CA	F1SOCMTLS
	Q101-CA	
	QH201E	