

RECOMMENDED Procedure

Sumitomo Electric Lightwave Corp.

Phone: 919-541-8100

Toll Free: 800-358-7378

Web: www.sumitomoelectric.com

Lynx-CustomFit Splice On-Connector (SOC)

Topic	Page
1.0 General	1
2.0 Safety Precautions	1
3.0 Specifications	1
4.0 Components	2
5.0 Required Tools	3
6.0 Procedure for 900um	4-5

1.0 General

This document describes the procedure for installation of the Lynx-CustomFit Splice-On Connector 250µm & 900µm solutions UPC & APC.

2.0 Safety Precautions

1. Please read and follow all fusion splicer manufacturers' recommended procedures concerning splicer operation and precautions.
2. Safety glasses should be worn when handling bare optical fiber.
3. Never look into the end of a microscope or optical cable connected to an optical output device that is operating. Laser radiation is invisible, and direct exposure can severely injure the human eye.
4. Alcohol is flammable, causes irritation and is harmful if swallowed or inhaled. Keep alcohol away from heat, sparks, skin, and avoid contact with eyes.

3.0 Specifications

Fiber Type		SMF; MMF 50 & 62.5 µm	
Coating Diameter		250µm, 900µm	
Connector Type		SC	
Polishing	UPC	APC	
Insertion Loss	<0.30 dB	<.30 dB	
Return Loss	> 40 dB	>60 dB	
Color	Blue	Green	

4.0 SOC Components

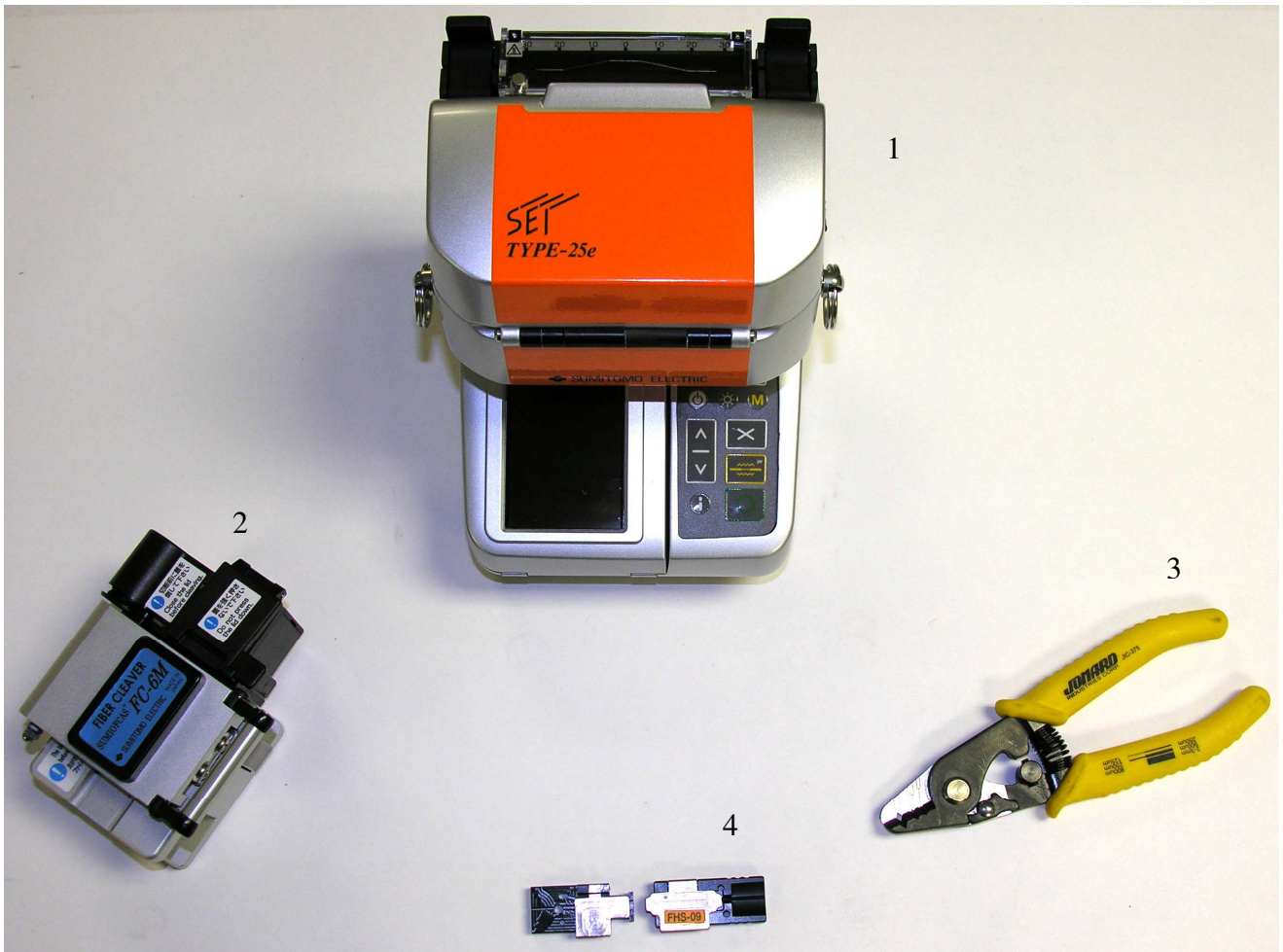
900 Micron Solution

SOC Components



1	Ferrule Subassembly with Dust Cap
2	Protection Sleeve
3	Inner Housing
4	Outer Housing
5	Strain Relief Boot
6	Rear Housing
7	Spring

5.0 Required Tools



1	Fusion Splicer
2	Fiber Optic Cleaver
3	JR-M03 Fiber Optic Strippers
4	Connector Holder & Cordage Holder or Standard 900 micron Holder

6.0 Procedure



Figure 24



Figure 25



Figure 26

1. Open package to expose components.
2. Thread 900 micron fiber through strain relief boot, rear housing, spring and slide on fiber protection sleeve (Fig.24)
3. Load fiber into holder. (Fig. 25)
4. Using JR-M03, strip off 900 micron sheathing and fiber coating then clean fiber using gauze pad moistened with isopropyl alcohol. (Fig. 26)
5. Point where 900 μ m coating stops should be even with edge of fiber holder. (Fig. 26)

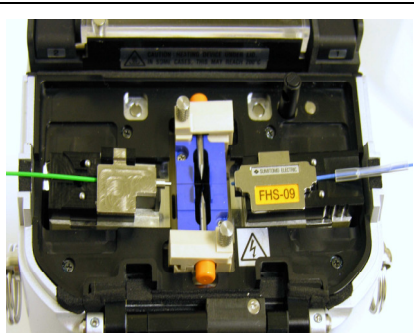


Figure 27

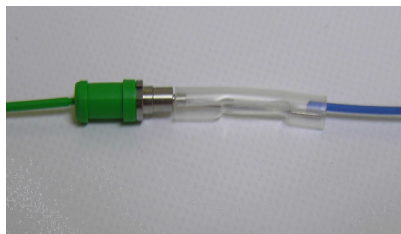


Figure 28

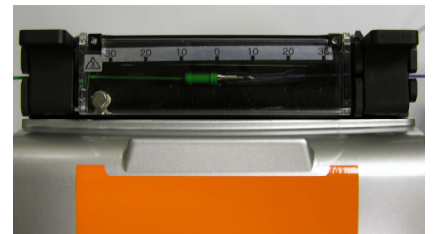


Figure 29

6. Cleave fiber using appropriate cleaver and place into fusion splicer. (Fig. 27)
7. Load the ferrule assembly into its specially designed holder and place into fusion splicer. (Fig. 27)
8. Perform splice.
9. After splicing, slide on fiber protection sleeve. Fiber protection sleeve should cover lip on back of ferrule assembly. (Fig. 28)
10. Place assembly into heater. Heater should be set to either 60mm or FPS-1 heater condition. (Fig. 29)

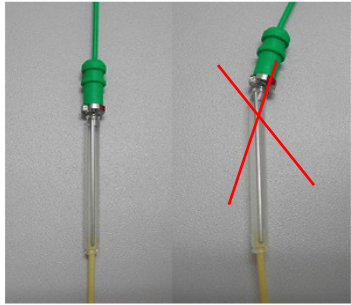


Figure 30

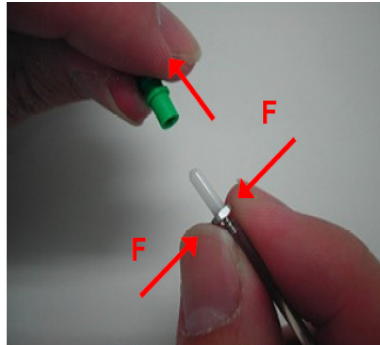


Figure 31

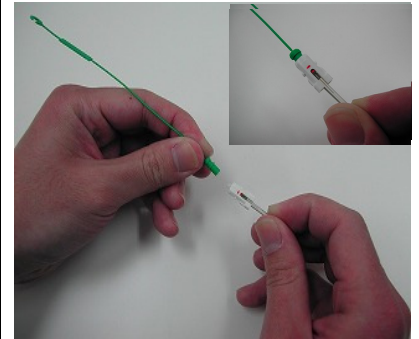


Figure 32

11. After completion of heater cycle, wait an additional 60 seconds while assembly cools. If assembly bends redo heater cycle. (Fig. 30)
12. Holding the metal screw of the fiber stub, take off the dust cap. Do not pull fiber protection sleeve, this action could break the fiber. (Fig. 31)
13. Align keyed sections (marked by red orientation markings) with each other, during APC connector assembly. (Fig. 32)
14. Gently press the dust cap onto the ferrule using the dust cap as a temporary holder (Fig. 32)

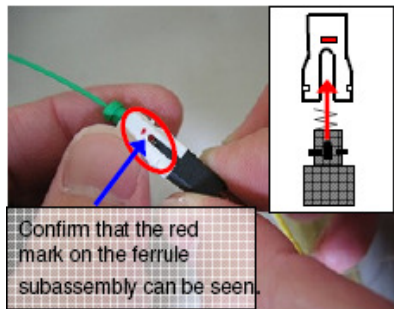


Figure 33

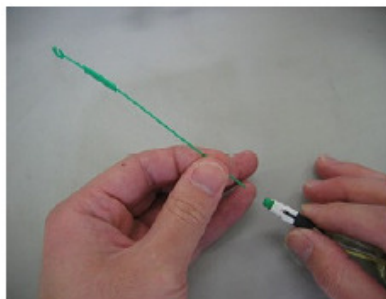


Figure 34

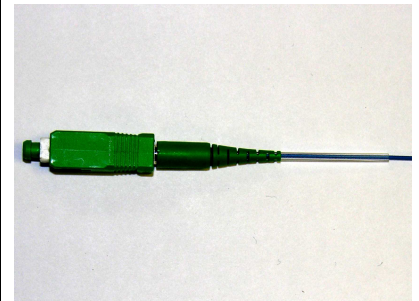


Figure 35

15. Align the groove and the inner housing over the rear housing until the components lock together. (Fig. 33)
16. Snap the string off dust cap. (Fig. 34)
17. Slide outer housing over assembly.
18. Complete. (Fig. 35)

