

Lynx-CustomFit® Splice-On Connector Ver. 2

M_S_02

- LYNX2-LC for 250um or 900um Tight Buffered Fiber -

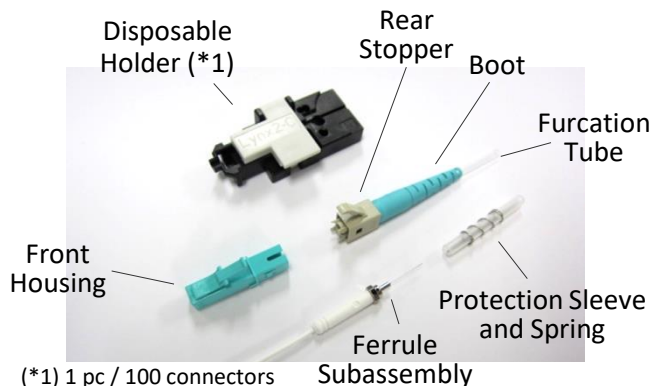
Installation Manual

For your safety operation

The Lynx-CustomFit® Splice-On Connector is designed and manufactured to assure personal safety. Improper operation can result in bodily injury and serious damage to this product. Please read and observe all warnings instructions given in this operation manual.

-  **Wear safety glasses** to protect your eyes when handling optical fiber.
-  **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.
-  **Alcohol is flammable**, causes irritation and is harmful if swallowed or inhaled. Keep alcohol away from heat, sparks, skin, and avoid contact with eyes.
-  In the case of the work at the high place, please be careful not to drop an assembling tool.

Composition



Recommended Program

Splicer	Fiber	Splicing Program	Heater Program
T-Q101-CA (T-71)	SMF	SMF Standard	Lynx
	MMF	MMF Standard	
T-QH201e (T-201)	SMF	SMF Standard	Lynx
	MMF	MMF Standard	

SMF : G.652, G.657
MMF : MM50(OM2), MM50(OM3), MM50(OM4), MM62.5(OM1)

Precautions

- Improper assembly will result in a loss of performance. **Please read instructions** given in this operation manual and the operation manual of the fusion splicer.
- Never touch the fiber of the stub.** It has been inspected in the factory.
- The product is sensitive to dirt or dust. Do not take out any parts from the package **until it is to be used.**
- The characteristic will be influenced by the fiber cleaved surface condition. Please use a cleaver which has a good cleaving characteristic.
- Do not remove the dust cap **until the connector has been completely assembled** in order not to cause an high insertion loss due to them.

Assembling Tools

Either one holder is required.

Holder (Fiber Side)			
for 900um tight buffer		for 250um fiber	
LYNX2-UML-S	FHS-09	FHS-025	LYNX2-S-LB5
			

Below equipment or tool are examples.

Fusion Splicer T-Q101-CA, etc.	Fiber Cleaver FC-6S-C, etc.	Jacket remover JR-M03, etc.
 Holder Type	 Cleave length: 10mm	

 Please perform Arc test prior to the splicing operation. (See the operation manual of the splicer.)

*Fiber for testing is not included in the kit.
 Please check fiber type inside the field fiber.

North Carolina (USA)
Sumitomo Electric Lightwave Corp.
201 S. Rogers Lane Ste. 100, Raleigh, NC 27610
TEL +1-919-541-8100
<http://www.sumitomoelectric.com/>

London (UK)
Sumitomo Electric Europe Ltd.
220 Centennial Avenue, Elstree, Herts. WD6 3SL, UK
TEL +44 (0)20-8953-8118
<http://www.sumielectric.com/>

Yokohama (Japan)
Sumitomo Electric Industries, Ltd.
(Lightwave Network Products Division)
1, Taya-cho, Sakae-ku, Yokohama 244-8588, Japan
TEL +81-45- 853-7223, <http://global-sei.com/fttx/>

(A) Set Fusion Condition



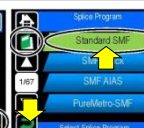
Push "power key" for more than 1 sec.



"Main Menu"
Select Fiber Type



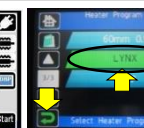
Select "Fiber Type", then "Return".



"Main Menu"
Select Sleeve Type

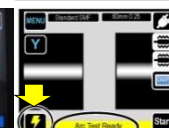


Select Sleeve Type
Then "Return"



Select "Arc Test"

(B) Perform Arc Test



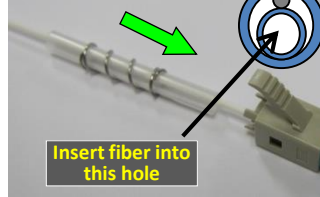
Then perform the arc test according to the instruction.
*Fiber for testing is not included in the kit.
Please check fiber type inside the field fiber.

See the operation manual of each splicer. These are the example of T-Q101-CA (T-71C).

(1) Slide Rear Parts onto the fiber.



(2) Slide Protection Sleeve onto the fiber.



(3) Remove the fiber coating. Approx. 35mm (JR-M03)



0.25 to 0.125mm

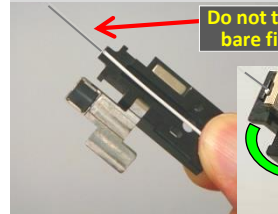
0.9 to 0.25mm

(4) Clean the fiber with lint-free cleaning wipe.



Moistened with alcohol

(5) Set the fiber on the holder.

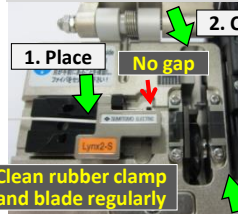


Do not touch bare fiber

Confirm the position



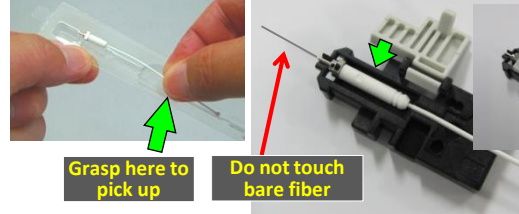
(6) Cleave the fiber (FC-6S)



(7) Set fiber holder on the splicer (left side).



(8) Pick up the stub and set the stub on the plastic holder.



Grasp here to pick up

Do not touch bare fiber

Push to close

(9) Set stub holder on the splicer (right side).



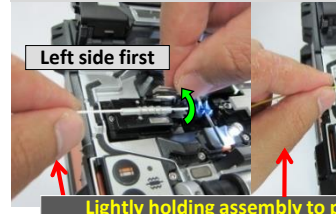
(10) Fusion Splice.



Button to start splicing

If the position of the fiber is wrong, set the fiber or stub again.

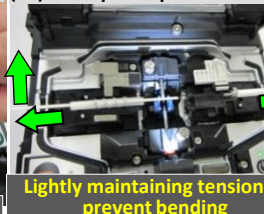
(11) Open the stub and fiber holders.



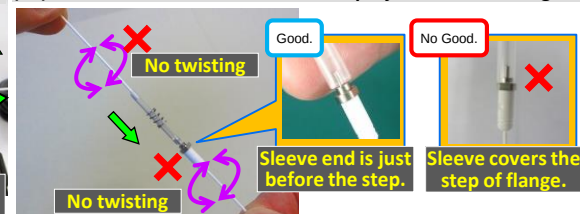
Left side first

Then right side

(12) Pick up the spliced fiber.



(13) Slide Protection until it covers the projection of the flange.



No twisting

Good.

No Good.

Sleeve end is just before the step.

Sleeve covers the step of flange.

(14) Set Sleeve into the heater.



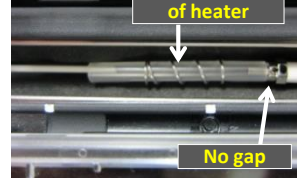
Right side first

Then left side

Lightly maintaining tension on fiber

No twisting

(15) Confirm the position before heating.



Sleeve at center of heater

No gap

(16) Heat Protection Sleeve.



Button to start heating

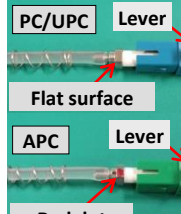
Lynx heater program runs a fan to cool the sleeve after heating

(17) Pick up Sleeve.



Be careful for hot sleeve, spring and flange even after the cooling by fan.

(18) Key Alignment.



PC/UPC

Flat surface

APC

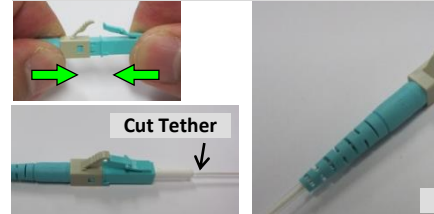
Red dot

Flange Design

4 directions available

1 direction only

(19) Put the front housing into the rear stopper.



Cut Tether

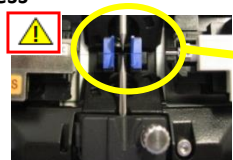
Complete

Legend **Caution** Refer to this manual and operate to correctly.

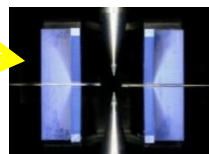
Prohibition False operation. Do not perform!

Point ① Fiber installation process

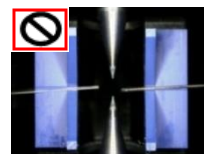
Place the fiber



Check the fiber position on V-groove.



Fiber should be aligned along the V-groove



Do not place the out of V-groove or the fiber tends to break.

Close the cover



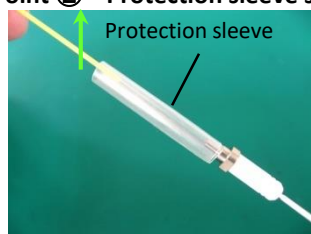
Hold the cover with both hands and close gently.



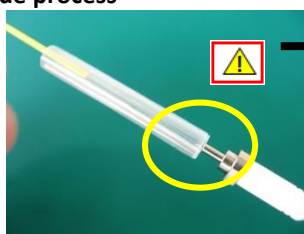
Do not stomp the cover or the fiber tends to broken



Point ② Protection sleeve slide process



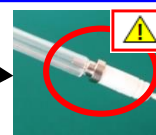
Protection sleeve



Raise the fiber end up so that the protection sleeve slides accordingly.



Do not shake!



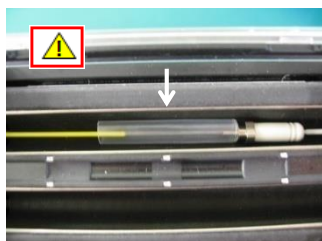
Do not twist!

Pick the sleeve to adjust position.

In case protection sleeve sticks on the flange.

The fiber will **break** by stress.

Point ③ Protection sleeve set position

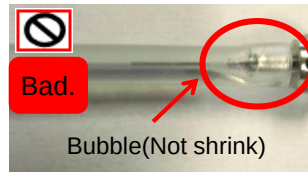


After heating.



Set the protection sleeve at center of heater.

If protection sleeve do not set at center.



Refer to reverse side.

The fiber will **break** by stress.

Point ④ Protection Sleeve's Shrink Condition

SC
FC
LC



Flange's step is exposed



Flange's step is exposed



No gap to flange between sleeve.



Glue is stuck to the flange

If Protection Sleeve have the bad condition.
Please **retry** using the another new LYNX connector.