### For your safety operation

This product has been 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** before handling optical fiber to protect the eyes. Small pieces of glass fiber are very sharp and might get into the eyes or under the skin and cause injury.

★ **Never look into** the end of a connector or an optical fiber which may have a laser coupled to it. Laser light may damage your eyes. Please note that laser light is not visible.

★ **If working in high places, please be careful not to drop any tools.**

(Please use a wrist strap etc.)

### Components Description

- Connector (with wedge)
- Boot, Tube,
- Fiber holder for 250 µm fiber
- Assembling Jig

### Precautions

1. Improper assembly will result in a loss of performance. Please read instructions given in this operation manual.

2. The product is sensitive to dirt or dust. Do not take connector out of the package until it is to be used.

3. The performance will be influenced by the cleaved fiber surface condition. Please use a cleaver that has a good blade.

4. Please insert the fiber into the connector slowly. If the fiber is roughly inserted, it might be damaged or broken, leading to product failure. Broken fiber could be scattered in all directions.

5. Do not remove the dust cap until the connector has been completely assembled.

6. A proper amount of index matching gel is applied in the connector. Do not insert fiber more than once.

7. Product properties are referenced to specification No. ETP-0109-001-xx

### Assembly tools example

1. Fiber cleaver  
   FC-7

2. Jacket remover  
   JR-25

Following tools shall be required for assembling the above parts:

1. Fiber Cleaver
2. Jacket Remover
1 - Preparing connector

Be sure to wear Safety Glasses.

Be sure there is no space between the wedge and connector. If there is, push the wedge and connector together to realign.

2 - Setting connector

Set the circular groove of connector tightly onto semicircular ridge of “U” shaped shelf of Jig.

3 - Preparing the fiber holder

Cover 1, Guide, Cover 2, Cover 3

Open covers 1, 2, and 3 before using the holder. Make sure the guide is not visible from the rear of the fiber holder. If the guide is visible push the back-end into the fiber holder.

4 - Install boot and tube onto φ0.25mm fiber

① Install boot onto φ0.25mm fiber

② Install tube onto φ0.25mm fiber

5 - Removing fiber coating

Remove fiber Coating, using fiber jacket remover.

Range of 30 to 35mm in case of using Sumitomo FC-7.

Fiber coating

Tube

6 - Cleaning Bare Fiber

Clean bare fiber with a lint-free Gauze Pad moistened with pure Alcohol.

±30°degree

Bend fiber several times by moving it with your finger back and forth.

If fiber breaks, please start with a new fiber from Procedure【5】

7 - Screening Fiber

Fiber has to be fixed with finger and close it in order of the front cover and middle cover.

8 - Setting Fiber on the Fiber Holder

① Set the fiber and tube into the fiber Holder using these dimensions.

Fiber coating

Tube

0 ~ 1mm

0 ~ 2mm

② Setting Fiber on the Fiber Holder

Fiber has to be fixed with finger and close it in order of the front cover and middle cover.

③ Setting Fiber on the Fiber Holder

Set the fiber along the groove tightly before closing the back cover.

9 - The fiber cleaver

4. Push the cover of the cleaver

1. Set the cleaver for cutting

2. Set the fiber holder to the cleaver

3. Set the fiber holder tightly

10 - Fiber length check

Length of bare fiber 9-11mm
11 - Inserting fiber

- Set the fiber holder to the guide rail.
- Be sure the fiber aligns with the U-groove.
- Be careful not to hit the edge of the fiber.
- Slide the fiber holder slowly until it stops.
- Small amount of bending is normal.

12 - Unlock the lever

- Open cover 2.
- Slide the fiber holder slowly until it stops.
- Not following this step can cause an air gap between fibers, creating high insertion loss.

13 - Remove the wedge

- Open lock lever.
- Push the arms to remove the wedge.

14 - Open the cover

- Open covers 1 and 3.
- Small amount of bending is normal.
- Not following this step correctly can cause damages to the fiber ends.

15 - Remove connector

- Separate the connector.
- Click!

16 - Fitting the boot

- Use a visible light source to test connection.
- Good connection: (no visible light)
- Bad connection: (visible light)

Finished product.
If the connector optical properties are insufficient to use, you can modify the connector properties by re-inserting the fiber and adjust the splice statement.

1 – Remove the boot and attach the wedge on a connector again (make sure there is no space between the wedge and the connector)

2 - Push the inserted fiber and create the bend again

**DO NOT PULL FIBER OUT FROM THE CONNECTOR**

3 - Remove the Wedge

Grip the fiber 80+/−10 mm position from the end of the connector

Push the arm to remove the wedge

4 – Re-install the boot