

AT&T FiberLine Installation Manual

Fiber Optic LC Rapid Connectors for 900µ Tight-buffered Fibers

AT&T P/N 29XFFNV001X-CCXX

For your safety operation

This product is designed and manufactured to assure personal safety. Improper operation can result in injury and in damage to the product. Please read and observe all warnings and follow the instructions detailed in this manual.

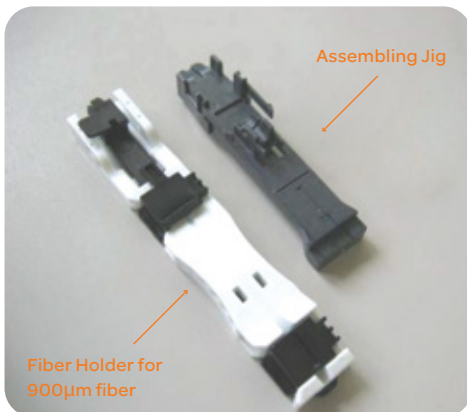
- Wear safety glasses before handling optical fiber to protect the eyes. Small pieces of glass fiber are very sharp and might get into the eyes or under the skin and cause injury.
- Never look into the end of a connector or an optical fiber which may have a laser coupled to it. Laser light may damage your eyes. Please note that laser light is not visible.

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.

Assembly kit

Fiber holder for 900µm fiber: 1 Unit.
Assembling Jig: 1 Unit.



Note: Different assembly kits are used for the different connectors and fibers.

Optional assembly tools

1 Fiber cleaver



2 Jacket remover



0.9 to 0.25mm 0.25 to 0.125mm



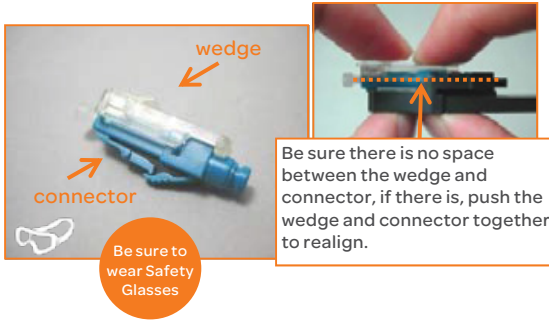
2 Jacket remover

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1- Preparing connector



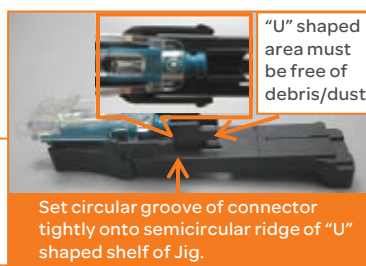
wedge

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.

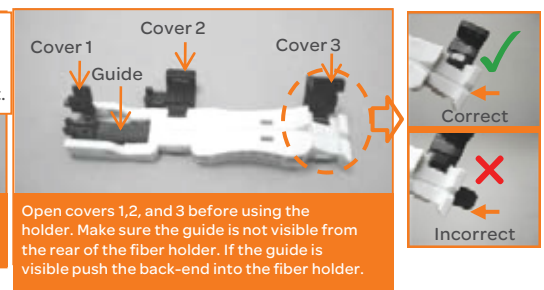
2- Setting connector



"U" shaped area must be free of debris/dust.

Set circular groove of connector tightly onto semicircular ridge of "U" shaped shelf of Jig.

3- Preparing the fiber holder



Cover 1, Cover 2, Cover 3, Guide

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.

Correct

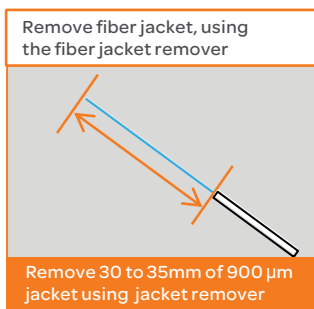
Incorrect

4- Install boot onto fiber



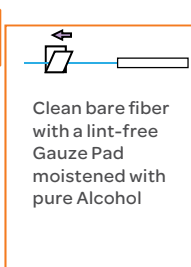
5- Removing fiber jacket

Remove fiber jacket, using the fiber jacket remover



Remove 30 to 35mm of 900 µm jacket using jacket remover

6- Cleaning bare fiber



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

7- Screening fiber

±30° degree

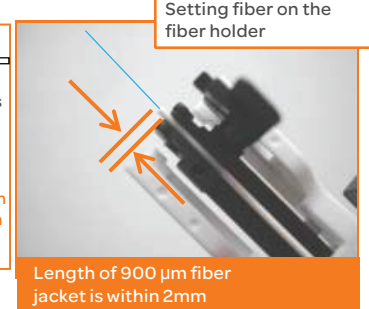
Bend fiber several times by moving it with your finger back and forth.

up, down, left, right

If fiber breaks, please start with a new fiber from step 5

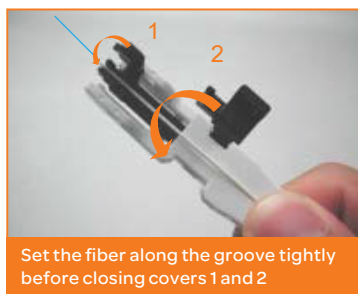
8- Setting fiber

Setting fiber on the fiber holder



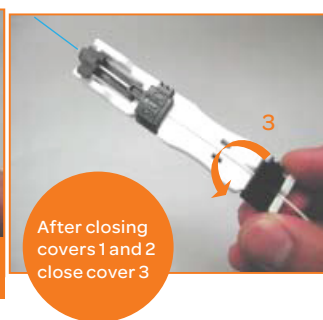
Length of 900 µm fiber jacket is within 2mm

9- The fiber cleaver



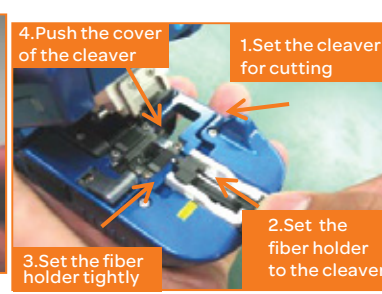
1, 2

Set the fiber along the groove tightly before closing covers 1 and 2



3

After closing covers 1 and 2 close cover 3



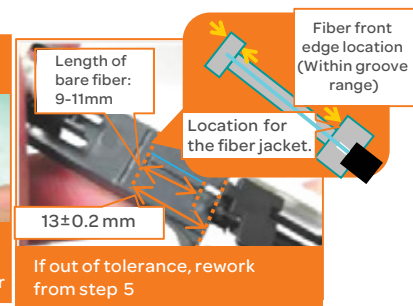
4. Push the cover of the cleaver

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

13±0.2 mm

Fiber front edge location (Within groove range)

Location for the fiber jacket.

If out of tolerance, rework from step 5

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11- Inserting fiber

Set the fiber holder to the guide rail. Be sure the fiber aligns with the U-groove

U-groove

Be careful not to hit the edge of fiber

Slide the fiber holder slowly until it stops

Attention

Open cover 2

Not following this step will cause an air gap between fibers creating high insertion loss

Insert until clicking sound is heard

Click!

hold the sides of the fiber holder so that the fiber moves freely

Small amount of bending is normal

Not following this step correctly can cause damages to the fiber ends

12- Unlock the lever

open lock lever

13- Remove the wedge

Push the arms to remove the wedge

14- Open the cover

Open covers 1 and 3

15- Remove connector

16- Fitting the boot

Use a visible light source to test connection

Click!

Finished product

Good connection (no visible light)

Bad connection (visible light)

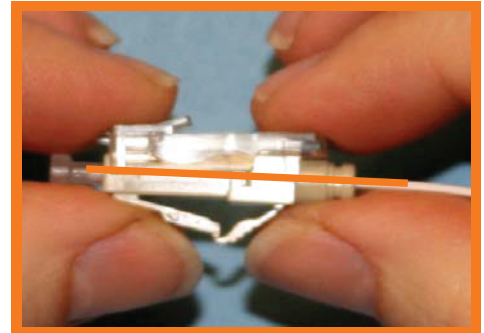
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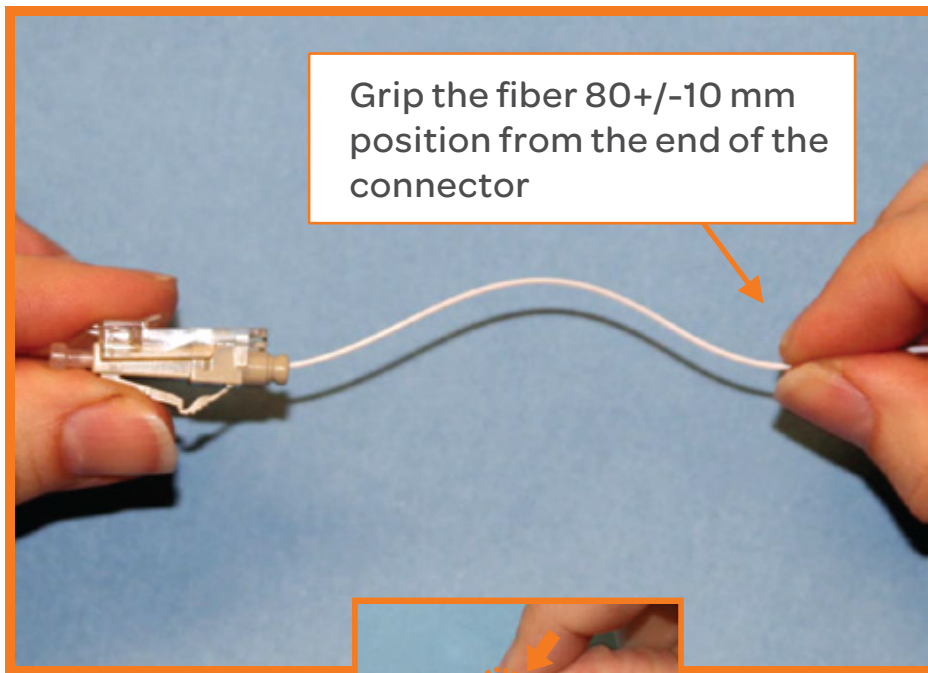
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Re-termination instructions

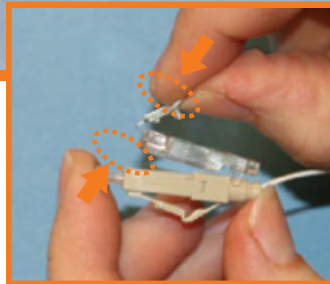
1- Remove the boot and attach the wedge on a connector again (make sure there is no space between the wedge and the connector)



2- Push the inserted fiber and create the bend again
DO NOT PULL FIBER OUT FROM THE CONNECTOR



3- Remove the Wedge



Push the arm to remove the wedge

4- Re-install the boot