

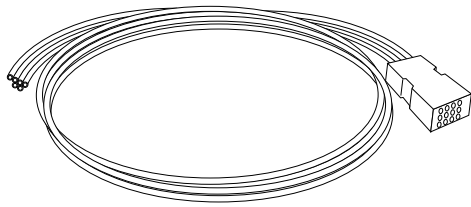
Installation Guide

Installing the Fiber Breakout Kit
(6 or 12 tubes) onto loose tube
(campus) cable

PX103203 Release 01.00

1 of 4 pages

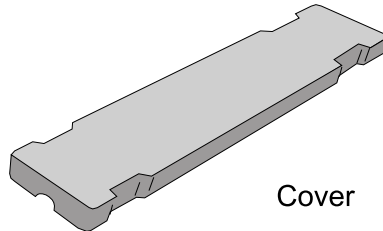
Breakout Kit Components



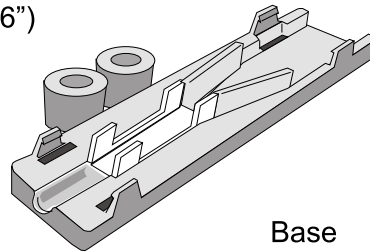
Terminal Assembly e/w 915 mm (36")
6 or 12 fiber tubes



Alcohol Pad



Cover



Base

Standard Tools and Materials

- Electrical or masking tape
- Lint free wipes
- Indelible marker
- Wire stripper
- Gel cleaner
- Needle nose pliers
- Fiber stripper
- Tweezers
- Fiber waste bottle

Special Tools

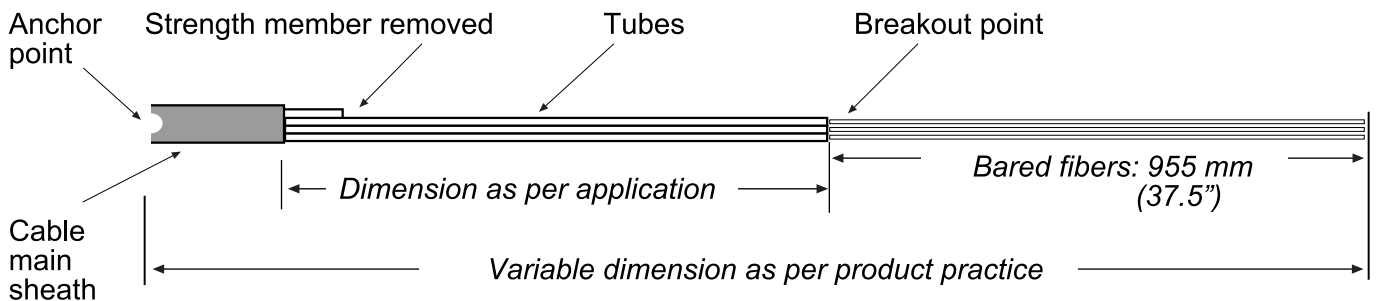
- Fiber cleaver
- Fiber preparation guide (ST/SC)

Safety Precautions

- Wear safety glasses
- Put all fiber scrap in waste bottle
- Do not look into fiber end

Note: Read these instructions carefully before installing a Fiber Breakout Kit.

Typical Prepared Cable (loose tube cable), Ready For Breakout Kit Installation



1 Cable Preparation - Loose Tube Cable

1. Determine cable anchor point (per product practice).

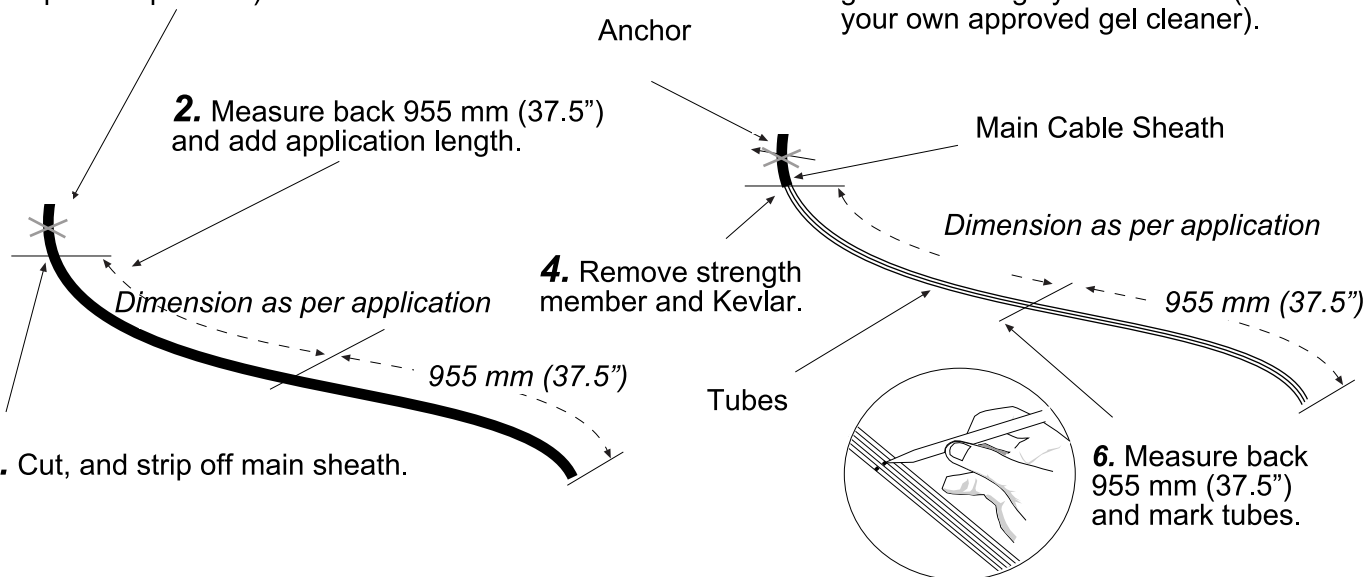
2. Measure back 955 mm (37.5") and add application length.

3. Cut, and strip off main sheath.

4. Remove strength member and Kevlar.

5. Using *alcohol pads, remove all gel and thoroughly clean tubes (* or use your own approved gel cleaner).

6. Measure back 955 mm (37.5") and mark tubes.



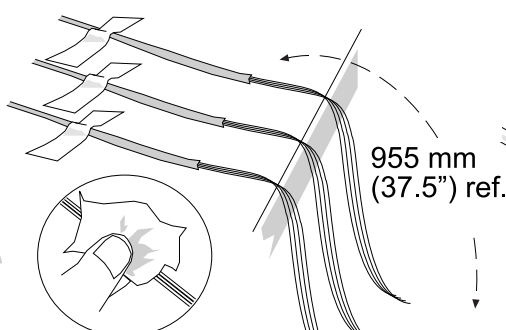
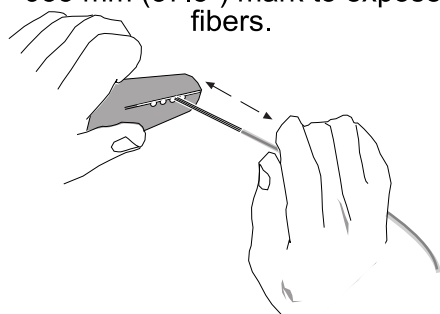
2 Preparing loose Tubes

1. Strip all tubes at the 955 mm (37.5") mark to expose fibers.

2. Tape each tube onto the work surface.

Using alcohol pads, thoroughly clean all the fibers.

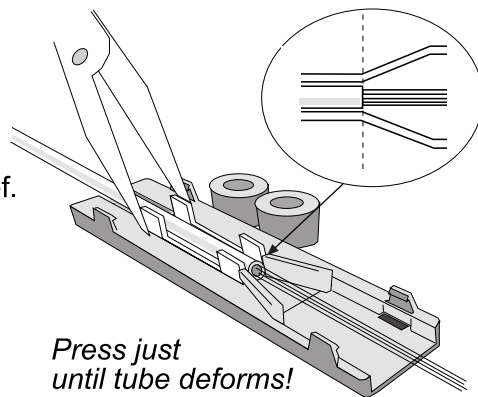
Note: Use a #16 wire stripper for 12-fiber tubes, and a #18 wire stripper for 6-fiber tubes.



3 Fiber Insertion

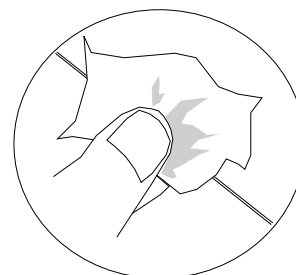
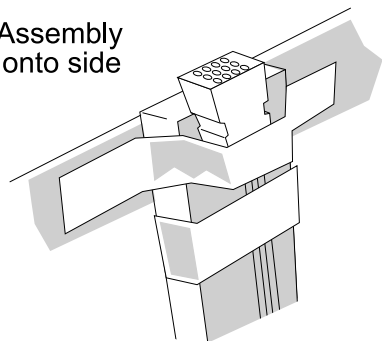
1. Align the tube end with the front tab and crimp tabs.

Press just until tube deforms!



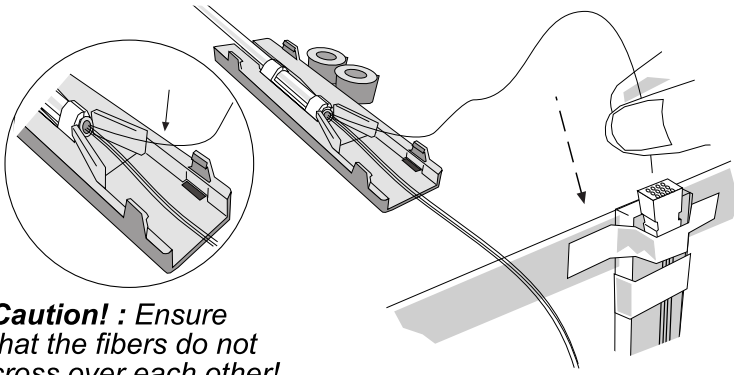
2. Uncoil Terminal Assembly tubes and tape unit onto side of work area.

3. Using alcohol and lint free tissues, clean each fiber, **one by one!**



Installer's Tip! : To aid fiber insertion, straighten tubes and tape Terminal Assembly to a one-meter ruler, and tape unit to work area.

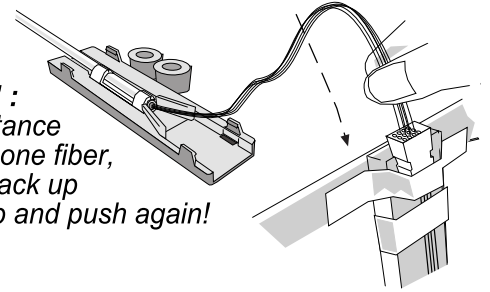
4. Thread each fiber approx. 1.5 cm (1/2") into tube.



Caution! : Ensure that the fibers do not cross over each other!

5. Push the fibers, as a group, into the tubes.

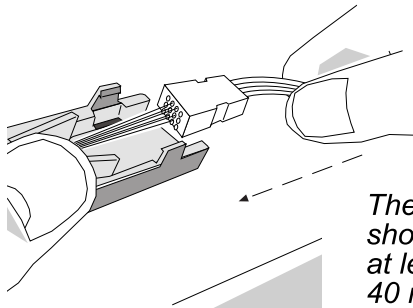
Caution! : If a resistance is felt on one fiber, slightly back up the group and push again!



Alternate method: Push each fiber, one at a time, until fully inserted.

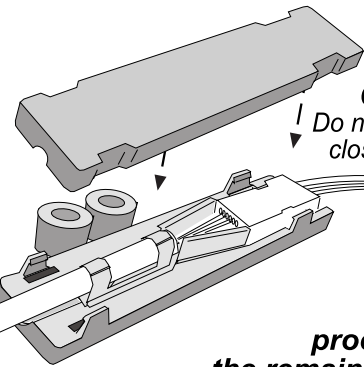
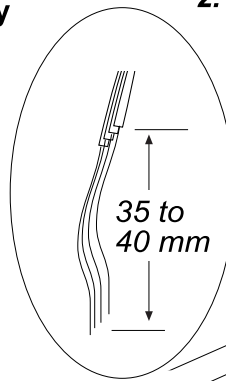
4 Base and Cover Assembly

1. Untape Terminal Assembly and gently slide unit into base.



The bare fibers should extend at least 35 to 40 mm out of the tube ends.

2. Align tabs, and press cover onto base.



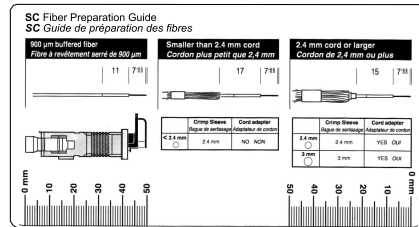
Caution! : Do not remove closed cover!

Repeat procedure for the remaining tubes!

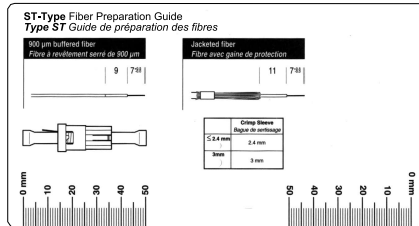
Installing SC and ST Compatible Optical Fiber Connectors on Loose Tube Cable

Required Tools:

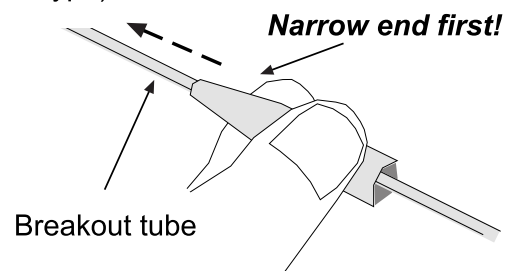
SC Fiber Preparation Guide



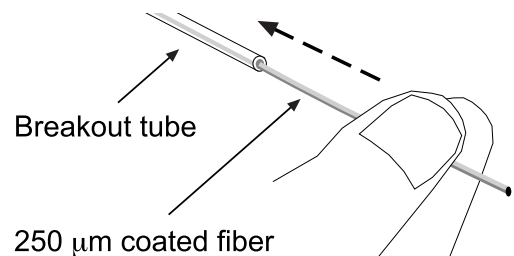
ST Fiber Preparation Guide



2. Slide connector boot (Boot and rear housing for ST type) onto tube.



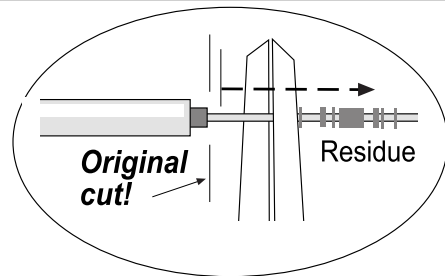
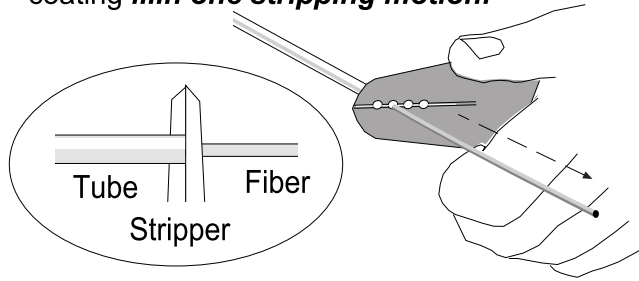
3. Push fiber back as far as possible inside the tube.



1 Fiber Preparation

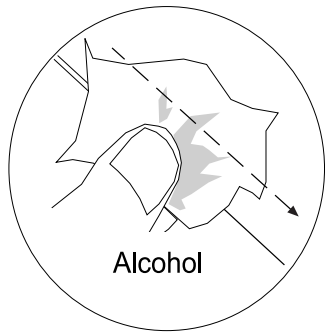
1. Check if the 250 micron fiber is extending out at least 35 to 40 mm from the tube. **If the extended fiber is short, strip tube to create appropriate length.**

4. Position fiber stripper against end of tube, and remove coating *...in one stripping motion!*



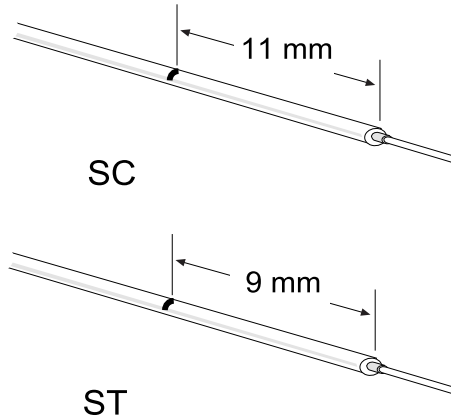
Note: If coating is not completely stripped, remove residue applying one pass...*starting just after original cut!*

5. Carefully, and *thoroughly* clean the bare fiber.



Use two or three passes!

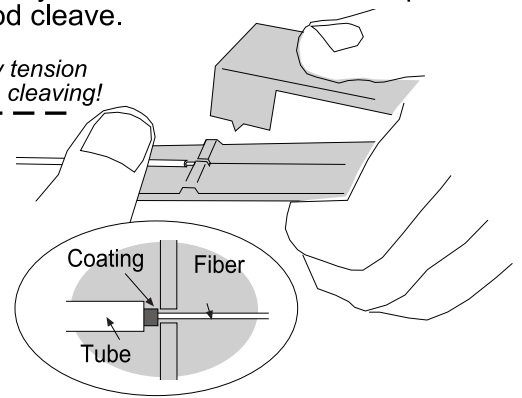
6. From the end of the tube, mark at 11 mm for an SC connector, or at 9 mm for an ST connector.



2 Cleave the fiber.

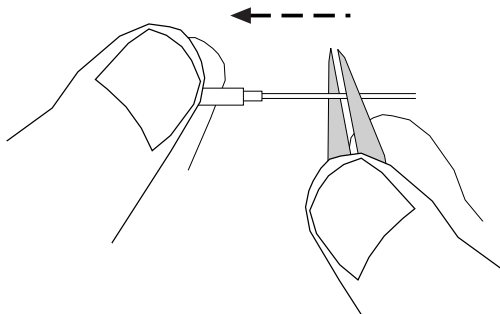
1. Take care to align the coating, **and not the tube**, with the stop on the cleaver. Keeping a steady tension on the fiber will help obtain a good cleave.

Apply tension when cleaving!

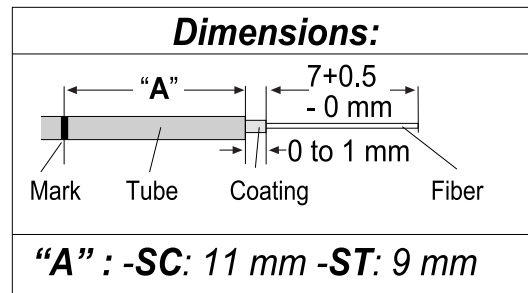


Note: Carefully follow the instructions supplied with your cleaver!

2. Using tweezers, push the fiber back into tube and check that the end of the 250 micron coating extends out of the tube, from 0 to 1 mm. **The end of the coating shall not be inside the tube!**



3. If one of the dimensions below is not within tolerances, start again at step #1!



3

Follow the standard 900 micron fiber installation procedure to finish terminating the connector.