

1.0 Scope

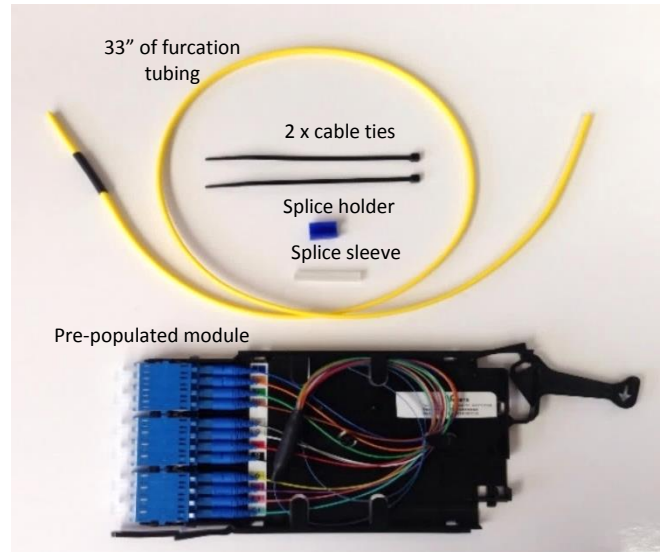
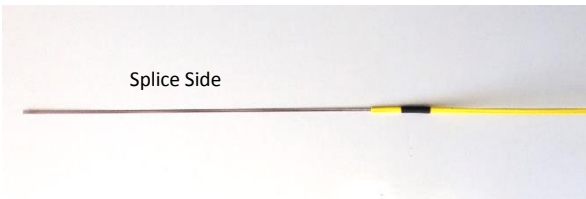
This document contains instructions for splicing bare ribbon fiber to a singlemode pre-populated LC module. This kit is for use with the Nexans ENSPACE patch panel only. For details on the installation and operation of the patch panel, please refer to the LANmark-OF ENSPACE Patch Panel Product Installation Guide.

2.0 Safety

- ⚠ Always wear safety glasses when handling optical fiber to protect small shards of fiber from entering the eyes.
- ⚠ Never look directly into the end of an optical fiber. Some wavelengths of laser light are not visible, and could cause serious eye damage.

3.0 Splicing Procedure

- 3.1 Unpack contents of bag and take inventory of all pieces (33" of furcation tubing, 2 cable ties, splice holder, splice sleeve and pre-populated module).
- 3.2 Remove 48" of jacket from the bulk ribbon to expose the bare 12-fiber ribbon. Slide the 33" piece of furcation tubing onto the ribbon ensuring the heat shrink is on the side that will be spliced.



- 3.3 Uncoil the ribbon stub and colored legs from inside the module.
- 3.4 Position the module in front of the splicer with the inside ribbon stub positioned to the right of the splicer, and the ribbon from the bulk cable positioned to the left of the splicer.
- 3.5 Prepare both ends of the ribbon following the user manual for the splicer, and slide the protection sleeve over the bulk cable side.
- 3.6 Splice the fibers and shrink the protection sleeve per the splicer's instructions.
- 3.7 After the sleeve has cooled, coil the colored legs back inside the module. Then carefully wind the ribbon on the outside of the colored legs (Figure 1.) by spinning the module.

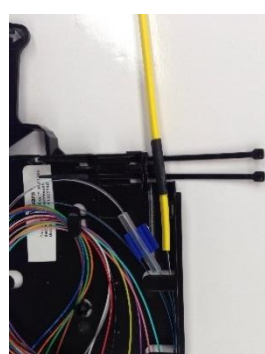
1. Wind Ribbon Outside Legs



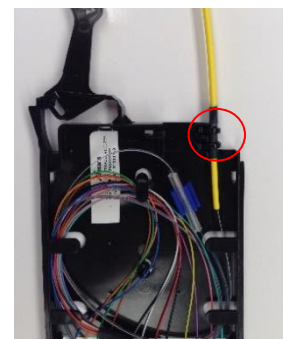
2. Set Furcation Tubing



3. Add Cable Ties



4. Hand Tighten Ties and Snip

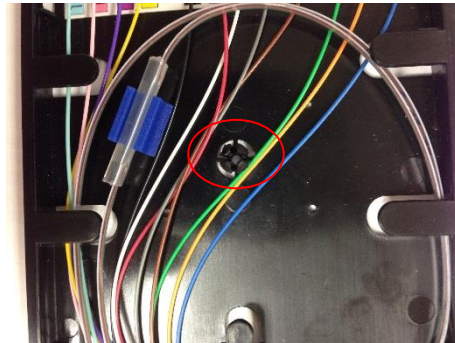


- 3.8 Position the coils so the furcation tubing lands in the left back corner of the module as shown in Figure 2.
- 3.9 Remove paper backing and affix the splice holder to the base of the module and secure splice protection sleeve. Be careful not to trap any fibers under the holder.
- 3.10 Slide the two cable ties into the openings as shown in Figure 3.
- 3.11 The cable ties should be attached over the black heat shrink on the yellow furcation tubing.
- 3.12 Hand tighten the cable ties (tightly enough to hold the tubing in place without deforming it).
- 3.13 Before cutting the tails of the cable ties, rotate the heads inside the module, to ensure they will not interfere with the installation of the module lid. See Figure 4.

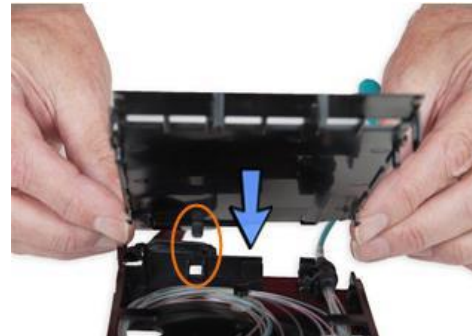
4.0 Attach Module Lid

- 4.1 Prior to attaching the lid, ensure there are no fibers on top of the center protrusion of the module base. Fibers on top of this protrusion can be pinched when the lid is installed.

Fibers should be to either side of center protrusion.



- 4.2 Next, position the rear of the cover at the back of the module. Align the rear tab with the hole as shown in the picture on the right.
- 4.3 Ensure the ribbon and colored legs will not be pinched by the cover.



- 4.4 Lower the cover down to the base. First, lock the rear tabs. Next, align the side and front tabs of the cover with the slots of the base, then press the cover together with the base to lock into place. The module is now complete.



- 4.5 Insert the module into the desired tray of the ENSPACE patch panel using the white guides. Gently push the module from the rear until it locks into place.

