Clearview Cassette

Clearview Classic

Clearview xPAK

Clearview Blue

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Plymouth, MN 55442
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www.ClearfieldConnection.com
techsupport@clfd.net

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Technical Support

Clearfield, Inc. can be contacted for any issues that arise with the supplied product.

If you need to return the supplied product, you must contact the Clearfield, Inc. Customer Service Department to request a Returned Materials Authorization (RMA) number.

Clearfield, Inc.
5480 Nathan Lane
Plymouth, MN 55442

Toll Free:	800.422.2537
Phone:	763.476.6866
Fax:	763.475.8457
Customer Support:	sales@clfd.net
Technical Support:	techsupport@clfd.net

Proprietary Notice

About FieldSmart Product Line Application

Its purpose is to provide the user with adequately detailed documentation to efficiently install the equipment supplied. Every effort has been made to keep the information contained in this document current and accurate as of the date of publication or revision. However, no guarantee is given or implied that the document is error free or that it is accurate with regard to any specification.

Clearview Cassette Design Philosophy

The Clearfield design philosophy is to keep it simple / simple / simple. Don't design a pen when a pencil will do. If there is a feature that will:

- Reduce service turn up time
- Reduce cost
- Promote scalability and flexibility
- Intuitive or make something more intuitive

…it will be in the design.

Designing a pen (i.e. features that have no real benefit) when a pencil will do only increases the cost to the customer. Ensuring that the basic rules of fiber management are met and reliably maintained, simple, yet innovative, features are only added when the benefit results in lower deployment costs through reduced installation and service turn-up time, elimination of other material costs, and total cost of ownership.

This method of designing to the core fundamentals of fiber management first and then designing from the inside out to meet the network environment need is a much different, yet effective, approach to traditional fiber management designs. This design philosophy is further implemented in a product philosophy of designing for volume with modular, flexible, and scalable "building blocks" that touch every area of the network.

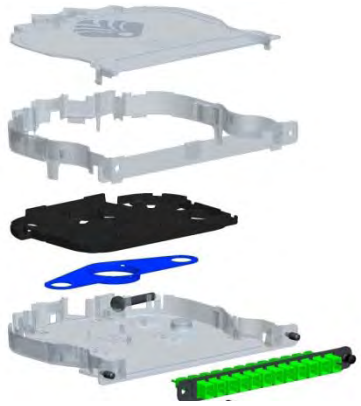
Introduction to the Clearview Classic Cassette

Application

Supporting patch only, in-cassette splicing, and optical component packaging for all cable constructions and environments, the Clearview Cassette multiplies and scales to meet your port density and application needs. It serves as a multiplier for fiber management solutions that scale from 12-port wall boxes to 864 OSP cross-connect cabinets, and everything in between.

Description

The Clearview™ Cassette is the heart of every product within the FieldSmart® fiber management system. With Clearview, the rules of fiber management have changed. No more does the service provider need to consider fiber management within the network layout—-it's already built into the solution.



The Clearview Cassette is a system of 6 parts that fully nest together to support any application in the inside or outside plant.

Parts are added or removed to support the configuration element desired for the environment into which it is being deployed. All types of fiber construction can be integrated into the cassette. The cassette can support all patch only, patch & splice, passive optical component hardware, and plug n' play scenarios.

Features & Benefits

Access - A removable 12-pack adapter plate allows users to reach terminated sub-assemblies for maintenance, cleaning and troubleshooting. Snap-together nested covers and internal components provide access without tools.

Protection (Physical fiber and bend radius) - Within the cassette, all fibers from the sub-assembly are slack stored, bend radius protected, and secured against accidental physical damage from handling. Designed to handle the toughest operating environments, the Clearview Cassette provides flexibility and reliable performance in the central office and in the field.

Its transparent design lets you see the components inside, and its modular construction allows you to create custom configurations with stock components from our full line of field-engineered products.

Flexibility - By integrating a single Clearview Expansion Ring, the Clearview Cassette doubles in height, integrating slack storage within the cassette. As a result, the Clearview Cassette is now a self-contained 12-port fiber management device.

From inside plant through the harsh outside plant environment to the commercial site, MDU or the customer home, the Clearview Cassette is the foundation upon which the FieldSmart platform of fiber management is designed. Clearfield is the only company that can meet the needs of every leg of your network with a single building block architecture.

Designed from the ground up with field-proven experience, the FieldSmart platform is a truly unique solution for today's rapid deployment FTTx and Data Center demands. With FieldSmart, you control your capital costs, reduce operational costs, and provide a consistent product platform throughout the network.

Configurations

A. Loose Tube Patch & Splice

EDZ-012-C1F-SUB

A splice tray that nests into the lower tray is all that's needed to deliver an integrated patch & splice application. Up to 2 meters of tight-buffered 250um assembly are pre-terminated, pre-loaded and slack stored inside the cassette for splicing.

IMPORTANT NOTE: The 250um pigtail saves the splicer time by not requiring them to strip the 900um jacket off first. Picture is a SC APC cassette. This style cassette is available in all industry standard connectors (LC UPC, LC APC, SC UPC, SC APC, FC UPC, FC APC, ST UPC). Notice the small baggie in the middle of the cassette. Each loose tube, patch and splice cassette comes with (2) ea. screws and retainers for mounting the cassette.

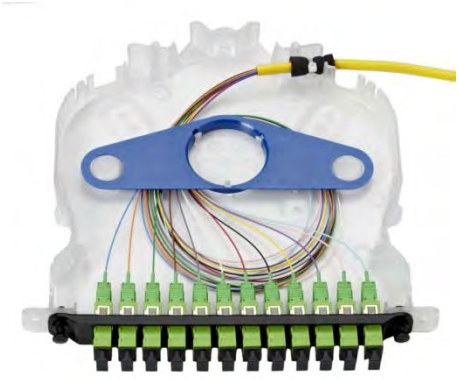
B. Mass Patch & Splice

EDZ-012-C2F-SUB

A splice tray that nests into the lower tray is all that's needed to deliver an integrated patch & splice application. Up to 2 meters of 12-fiber ribbon assembly are pre-terminated, pre-loaded and slack stored inside the cassette for splicing. The picture is a SC APC cassette. This style cassette is available in all industry standard connectors (LC UPC, LC APC, SC UPC, SC APC, FC UPC, FC APC, ST UPC, and MPO)

IMPORTANT NOTE: Notice the small baggie in the middle of the cassette. Each ribbon, patch and splice cassette comes with (2) ea. screws and retainers for mounting the cassette and (1) ribbon splice sleeve.

C. Patch Only



ECL-012-C1F XXXM (front view)

ECL-012-C1F XXXM (rear view)

Regardless of all industry-standard adapter style or cable construction, the Clearview Cassette handles all patch only applications using the lower tray, bow-tie radius limiter, adapter plate and top cover.

IMPORTANT NOTE: Picture shown is for a “Left” exit. We know this by looking at the “rear view” and the fiber cable is exiting to the left. This exit is designated by the “L” (3rd character in the part number). Subsequently, right exit is the opposite exit and is designated by a “R” in the 3rd character of the part number when configured.

The exit is important and is dependent on what product the cassette(s) are being installed in. Picture is a SC APC cassette. This style cassette is available in all industry standard connectors (LC UPC, LC APC, SC UPC, SC APC, FC UPC, FC APC, ST UPC, MPO). The picture also shows the cassette with a yellow IFC (interfacility cable (i.e. indoor only)) pigtail. This style cassette is available in all industry type fiber (IFC, OSP, Breakout style, Ribbon, Loose tube, Tight buffer, Armored, etc). The picture shown is for a 12-port assembly. This product is scalable up to 288 ports, in increments of 12-ports.

D. Optical Components

1 HIGH w/ (2) optical components

2 HIGH w / 1 x 16 splitter

3 HIGH w / 1 x 32 splitter

Clearview integrates optical components, WDM, CWDM, DWDM, splitters, circulators, etc., into the identical cassette, allowing service providers to mix and match fiber modules with optical components in the same chassis.

IMPORTANT NOTE: Configurations are not limited to the picture shown above. These are some examples. Expansion rings are added depending on the device size and number of ports

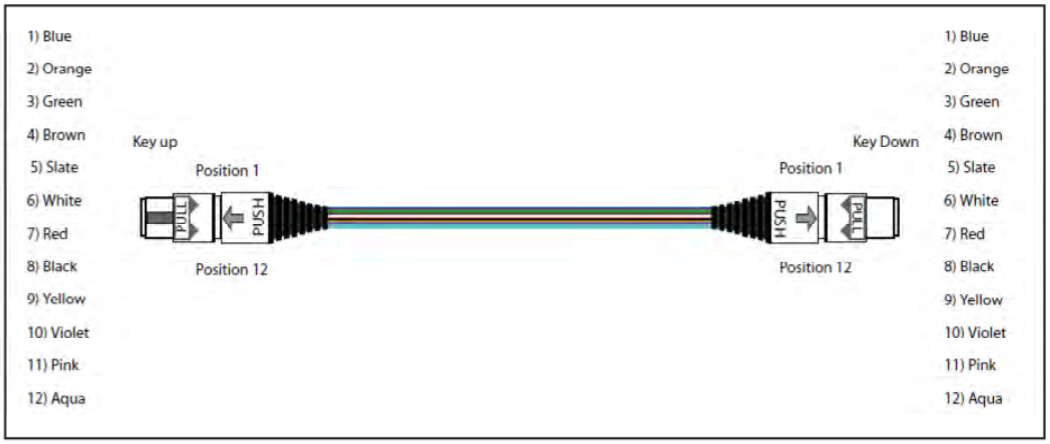
E. Plug-N-Play

EFR-012-F2F-SUB

MPO to 12-fiber 900 um assembly allows for plug-n-play by mating MPO to MPO with pre-terminated multi-fiber OSP or IFC.

IMPORTANT NOTE: The picture is a LC UPC cassette. This MPO style cassette is available in all industry standard connectors (LC UPC, LC APC, SC UPC, SC APC, FC UPC, FC APC, ST UPC) on the front with a male, MPO on the back. Key on MPO is facing down.

IMPORTANT: Pre-terminated assemblies, for plugging into the Clearview cassettes, should be built to Method “A” of the Commercial Building Telecommunications Cable Standard, Part 1. See below.



F. MPO Adapter Plate

LC/SC front input to 8-fiber MPO output allow for (4)1 x 8 to 1 x32 splitter in a single cassette.

G. 12 MPO Adapter Plate

Front view

Top view

Part number: EFZ-144-X2X-01

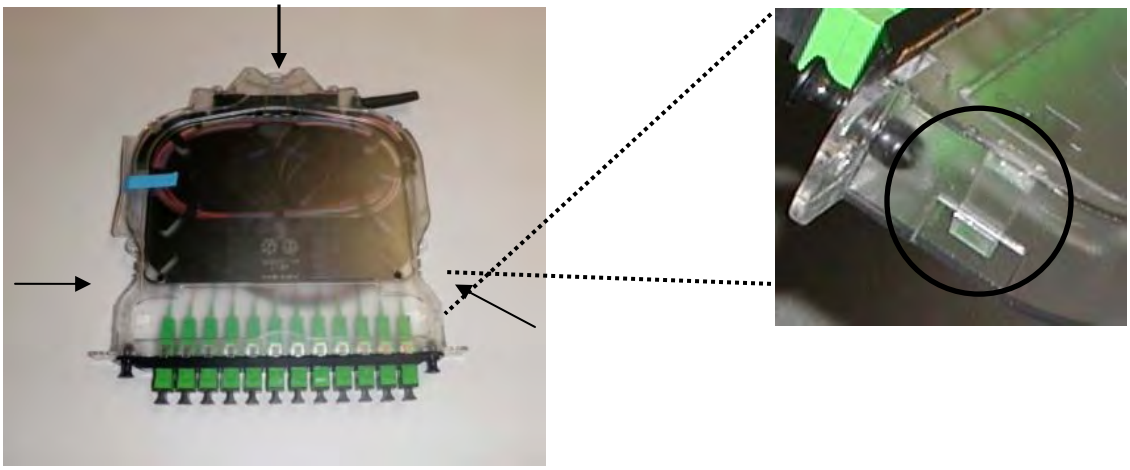
12 ports MPO input allows for high density (144 fibers) in a single cassette.

IMPORTANT NOTE: This cassette only comes in a splice only configuration due to it density.

Splicing In the Cassette

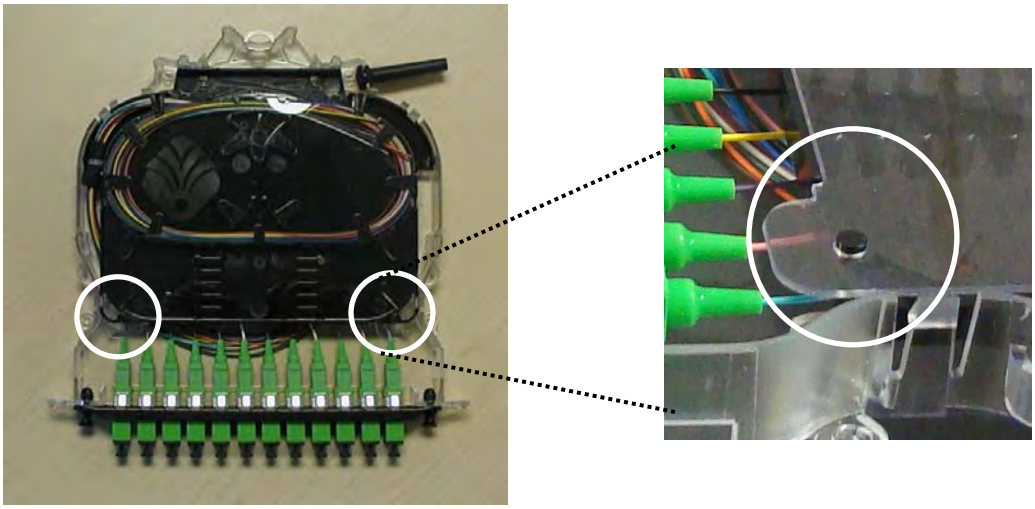
LBT (Loose Buffer Tube)

Remove the cover by pressing the tabs on the sides and rear of the cassette, and lift it from the base.

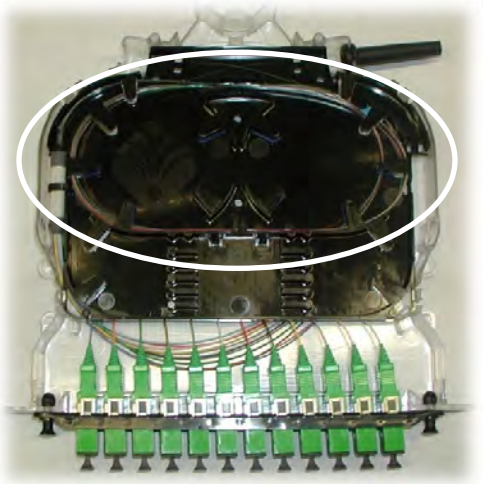


The mounting screws for the cassette are enclosed in a small bag and are located in the splice tray. You will have (2) mounting screws. Remove them and set aside for future use.

The splice tray cover can be removed by lifting up on the two tabs in the corners of the cover, and then by moving it slightly forward.

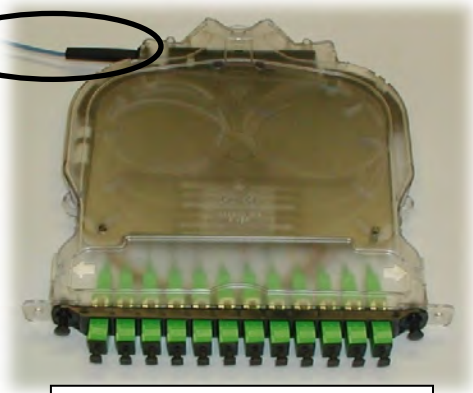


The preloaded ready-to-splice 250 um pigtails come pre-stored in the outer raceway of the splice tray.



If in the end, after splicing, if you need the cassette(s) exit to be:

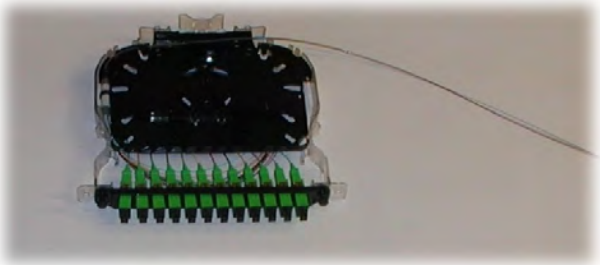
Incoming buffer tube feeding the cassette



"Left Exit" -- continue with splicing 250um redirect / instructions below

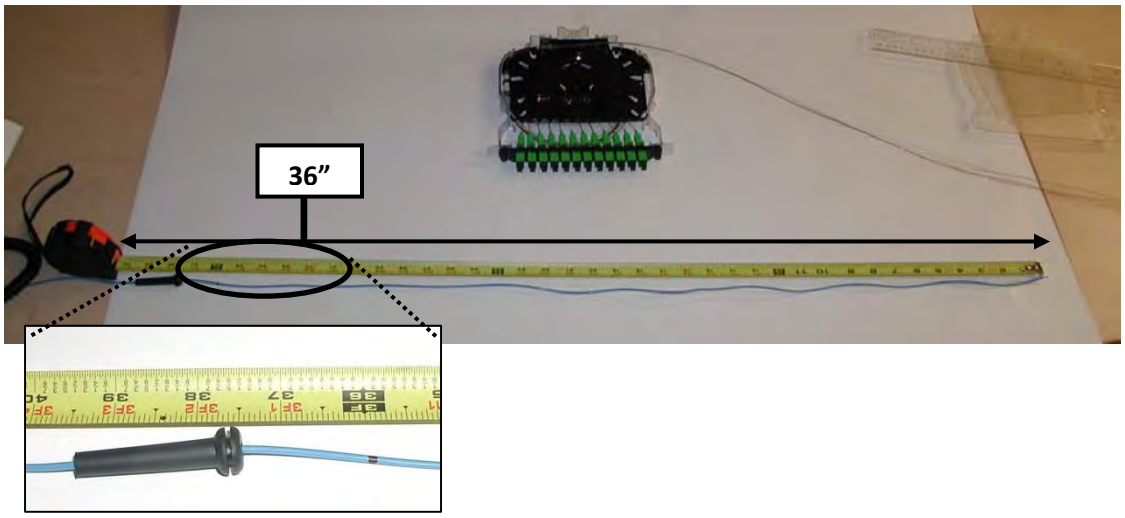
"Right Exit" -- jump to Right Exit instructions on

Pull the 250um out of the splice tray.



Taking a incoming buffer tube from the fiber you want to splice into the cassette, slide the grommet down the buffer tube as shown below and make a mark on the jacket 36” from the end of the tube.

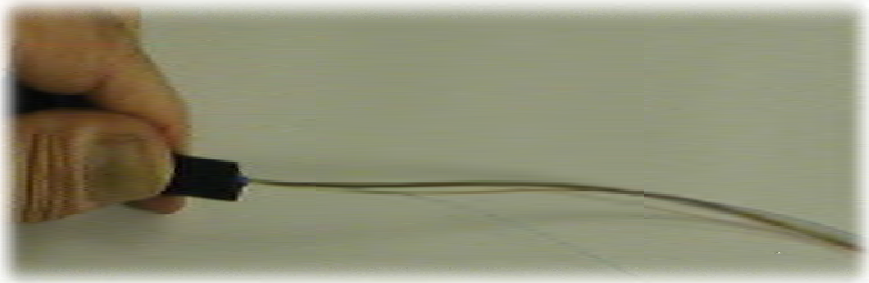
NOTE: Clearfield recommends the removal of 36” of buffer tuber. The excess 250um is stored in the cassette. This will allow for extra fiber in case re-splicing is required.



Cut a 1 inch piece of grommet tape from the roll that was supplied with the panel. Remove backing. Sticky side down, wrap the grommet tape just left of the mark you made at 36”.

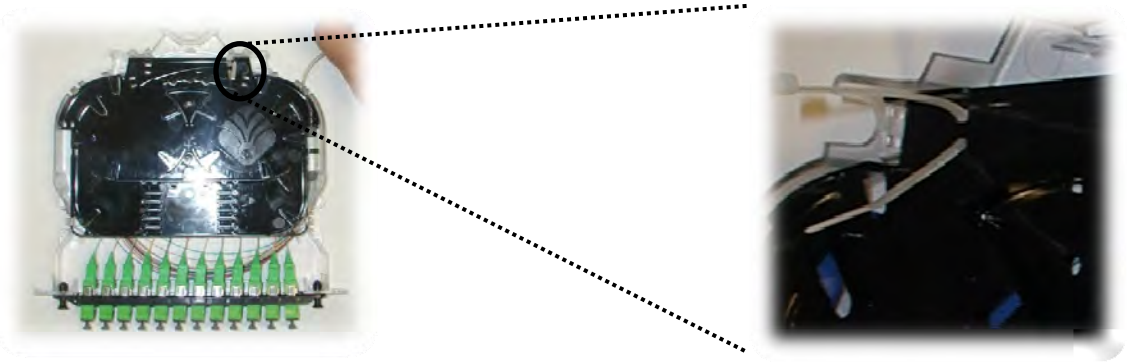
IMPORTANT NOTE: A roll of grommet tape is shipped with the panel (NOT the cassette) along with the mounting hardware, cable clamps, screws and brackets.

The amount of hardware, cable clamps, etc varies depending on what panel is ordered. Using a buffer tube cutter, score the tube at the mark you created and pull of the jacket. Be careful not to nick or cut the 250um fiber under the jacket

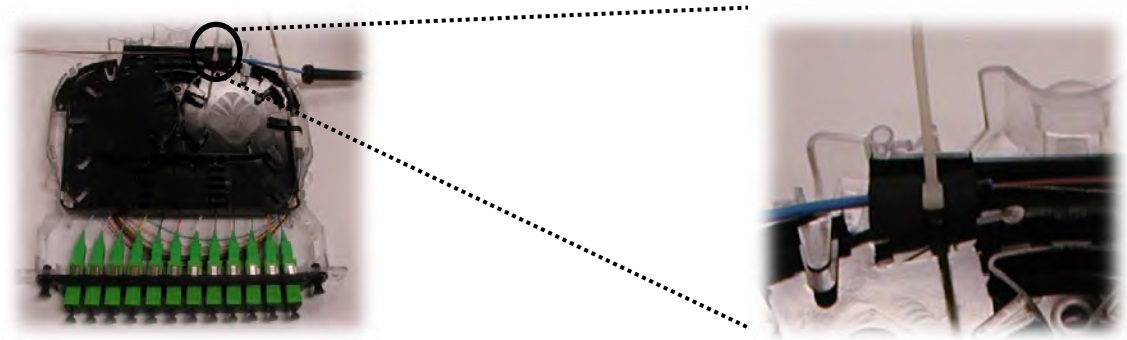


Take a 3/32” wide x 3” or 4” long zip tie (not supplied) and feed thru the tie down holes in the splice tray.

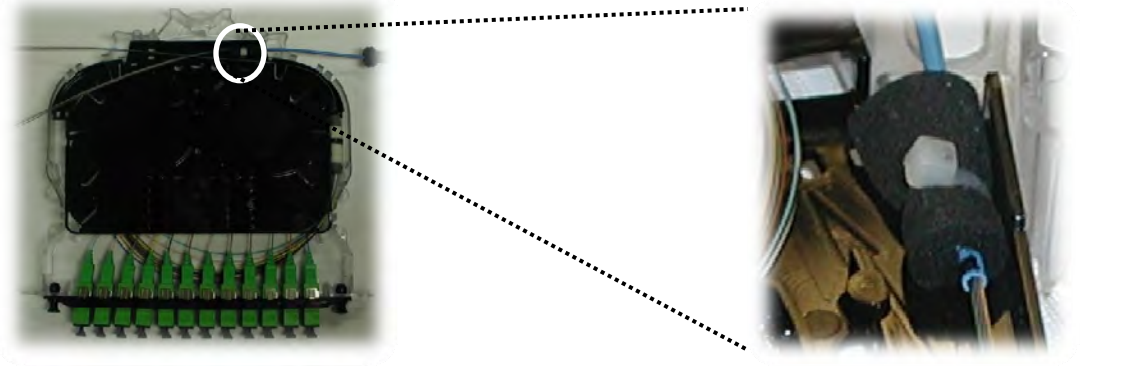
TIP: Instead of a zip tie, wax string can also be used to secure the buffer tube to the cassette. The splice tray in the cassette never has to be removed to perform and tie down or splicing functions.



Take the incoming buffer tuber, place the grommet “wrap” in the splice tray and zip tie down.



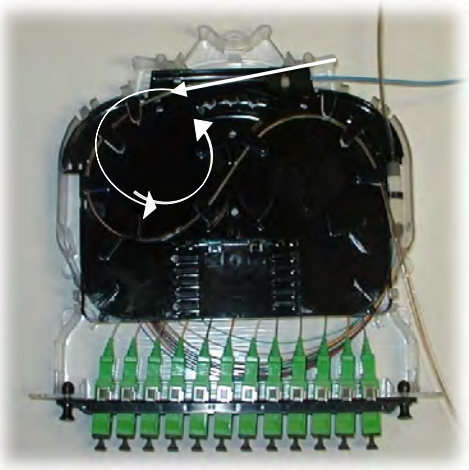
Using a snips or side cutter, trim zip tie at the head or nut

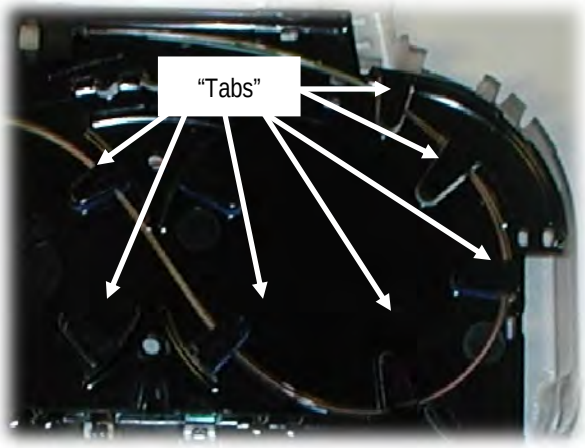


Now that both the feeder and distribution fibers are secure, it is time to trim the fibers to the correct length for splicing.

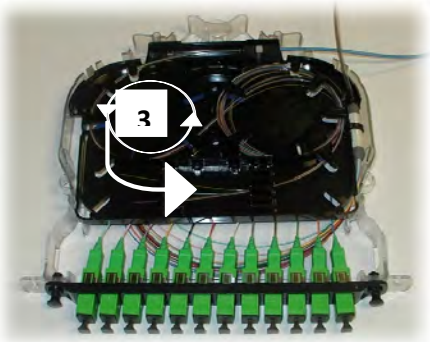
Take the feeder fiber and route into splice tray as shown. Take the fiber and run it through the splice tray on the left side of the cassette.

TIP: Make sure the fiber is routed underneath the fiber management tabs located throughout the splice tray. This protects the fiber and helps hold it in place.

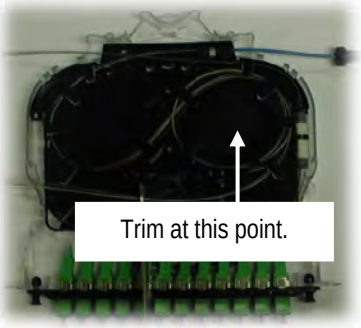




On the left side (Clearfield logo), route, store 3 loops and then bring the fiber to the splice area.



When in the splice area, trim the fibers.



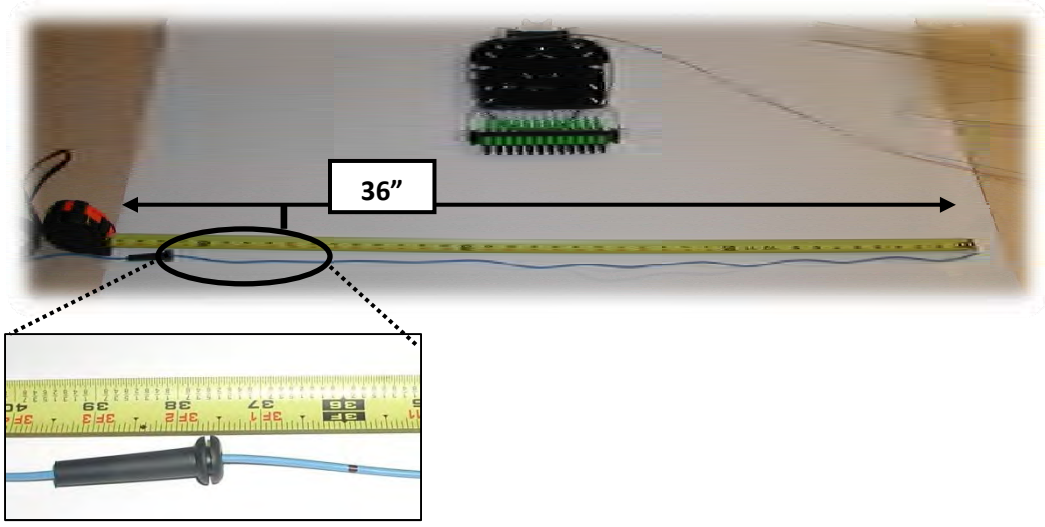
Once the fiber is trimmed, pull the fiber out of the cassette. Take the distribution fiber (fiber pigtail that came in the cassette) and pull fiber out of the cassette. You are now ready to splice.

250um Redirect / Right Exit

Pull the 250um out of the splice tray.

Taking a incoming buffer tube from the fiber you want to splice into the cassette, slide the grommet down the buffer tube as shown below and make a mark on the jacket 36" from the end of the tube.

NOTE: Clearfield recommends the removal of 36' of buffer tuber. The excess 250um is stored in the cassette. This will allow for extra fiber in case re-splicing is required.



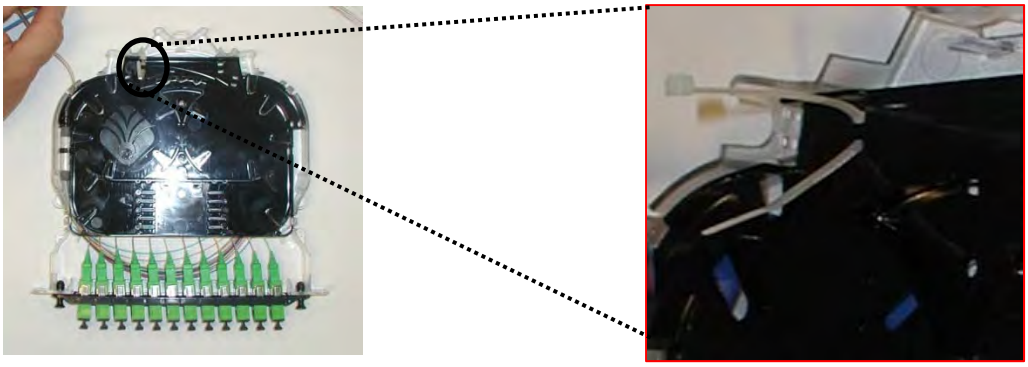
Cut a 1 inch piece of grommet tape from the roll that was supplied with the panel. Remove backing. Sticky side down, wrap the grommet tape just left of the mark you made at 36".

IMPORTANT NOTE: A roll of grommet tape is shipped with the panel (NOT the cassette) along with the mounting hardware, cable clamps, screws and brackets.

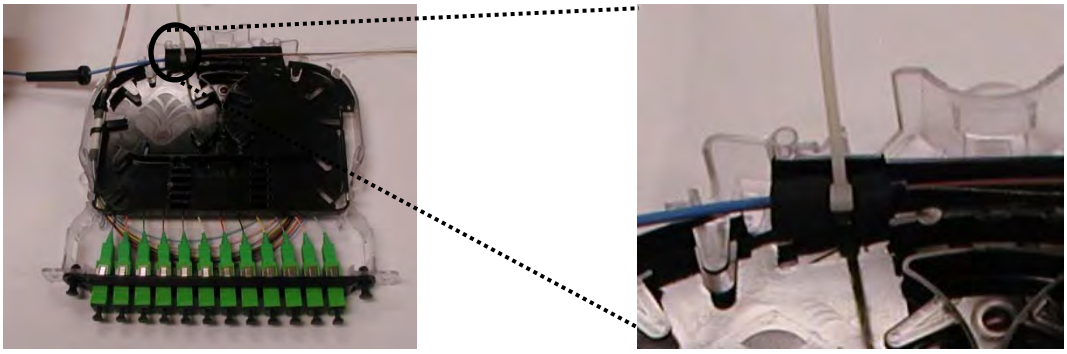
IMPORTANT NOTE: The amount of hardware, cable clamps, etc varies depending on what panel is ordered. Using a buffer tube cutter, score the tube at the mark you created and pull of the jacket. Be careful not to nick or cut the 250um fiber under the jacket.

Take a 3/32" wide x 3" or 4" long zip tie (not supplied) and feed thru the tie down holes in the splice tray

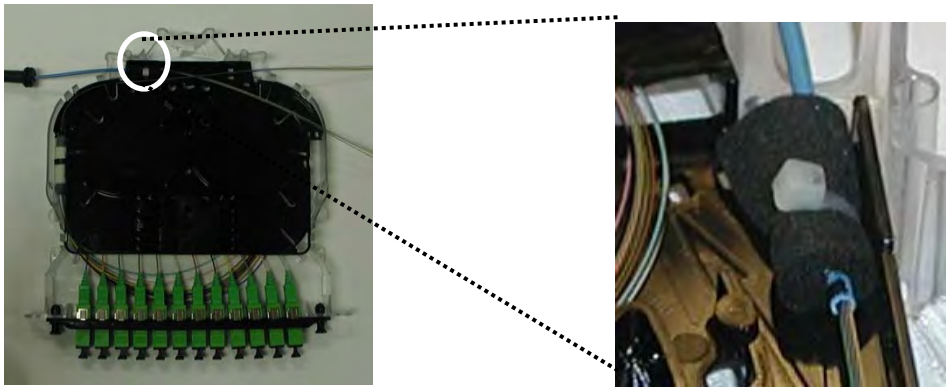
TIP: Instead of a zip tie, wax string can also be used to secure the buffer tube to the cassette. The splice tray in the cassette never has to be removed to perform and tie down or splicing functions.



Take the incoming buffer tuber, place the grommet "wrap" in the splice tray and zip tie down



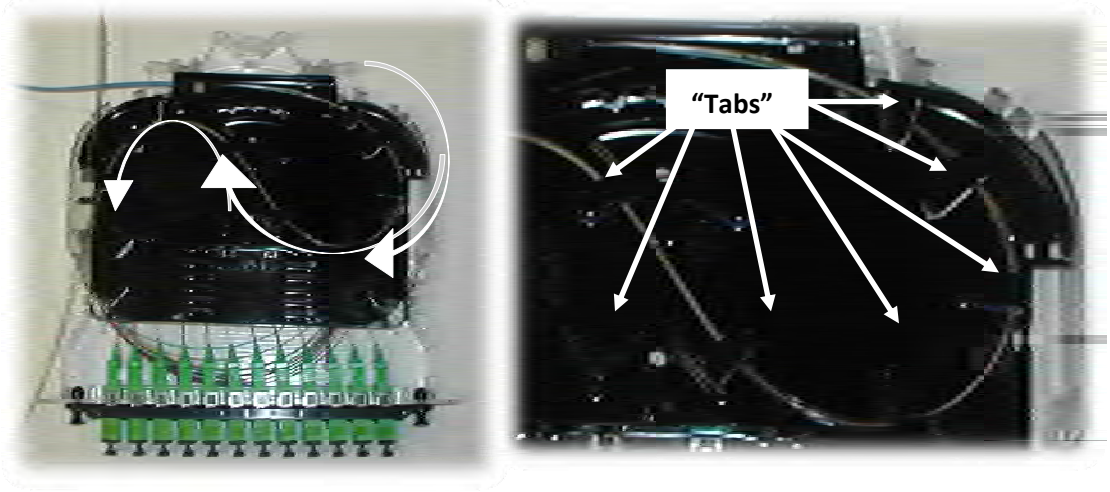
Using a snips or side cutter, trim the zip-tie at the head or nut.



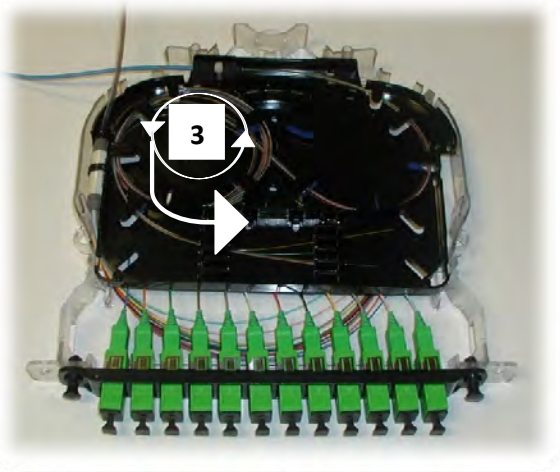
Now that both the feeder and distribution fibers are secure, it is time to trim the fibers to the correct length for splicing.

Take the feeder fiber and route into splice tray as shown. Take the fiber and run it through the splice tray on the right hand side. Make one sweep on the right, then transition to the left side of the tray (with Clearfield logo).

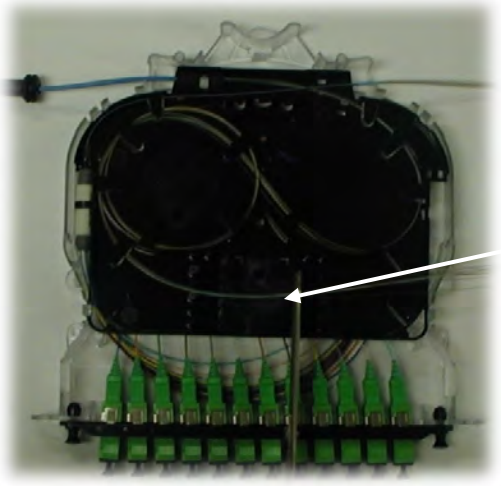
TIP: Make sure the fiber is routed underneath the fiber management tabs located throughout the splice tray. This protects the fiber and helps hold it in place.



On the left side (Clearfield logo), route, store 3 loops and then bring the fiber to the splice area.



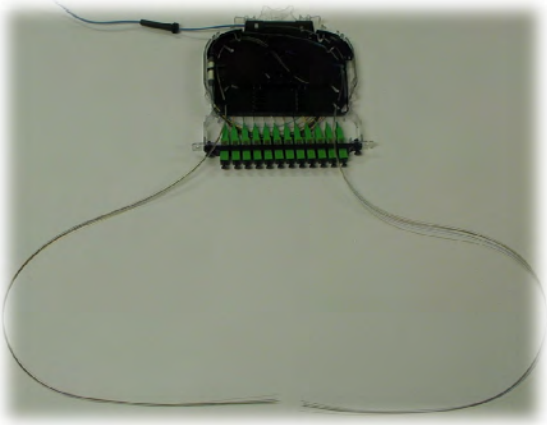
When in the splice area, trim the fibers.



Trim at this point.

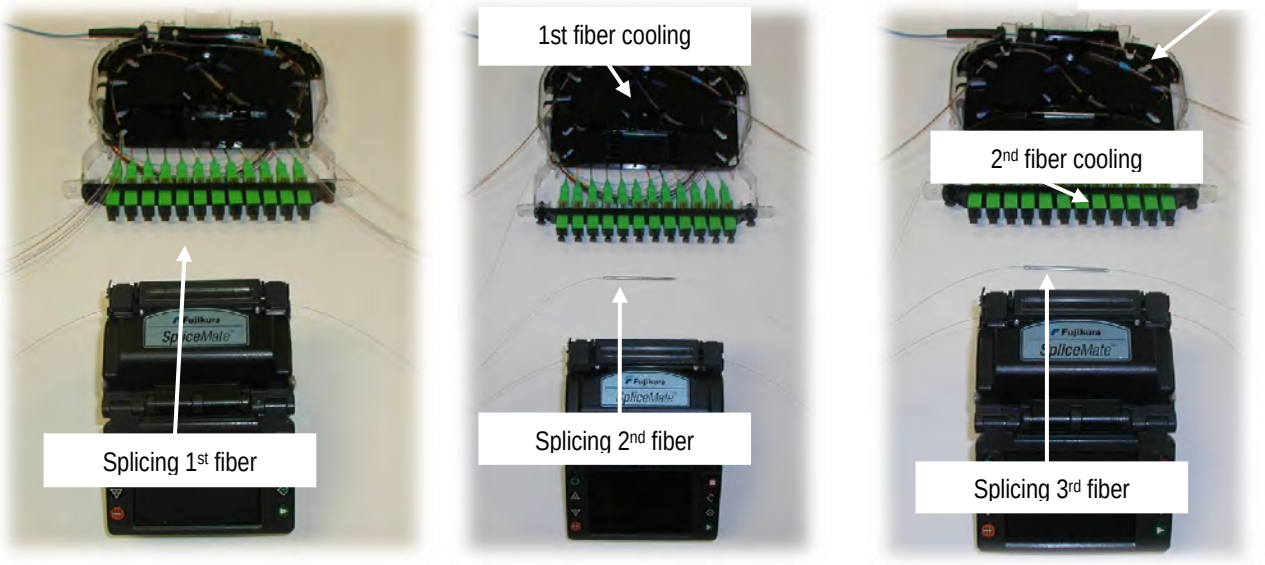
Splicing

Once the fiber is trimmed, pull the fiber out of the cassette. Take the distribution fiber (fiber pigtail that came in the cassette) and pull fiber out of the cassette. You are now ready to splice.



Take your first fiber from both sides, and splice per your normal, industry standard splicing guidelines. While waiting for your first splice sleeve to cool, start prepping your 2nd fiber and continue with splicing.

After the 1st fiber splice sleeve has cooled, move the splice tube to the splice tray in the cassette. Move the 2nd splice sleeve to the cooling area. Prep 3rd fiber and continue splicing.

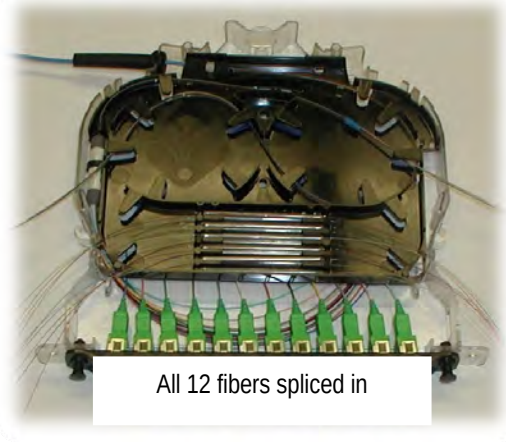


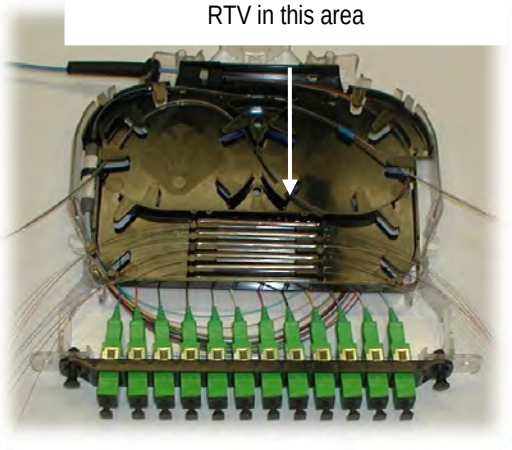
TIP: Clearfield recommends a 60mm long, single strength member, splice sleeve.

IMPORTANT NOTE: The Clearview Cassette utilizes a common, industry, 6 x 2 splice areas. In other words there are 6 splice slots which are deep enough to handle 2 splice sleeves. As the splice sleeve(s) are cooled and are moved to the splice tray they will be stacked, one on top of the other.

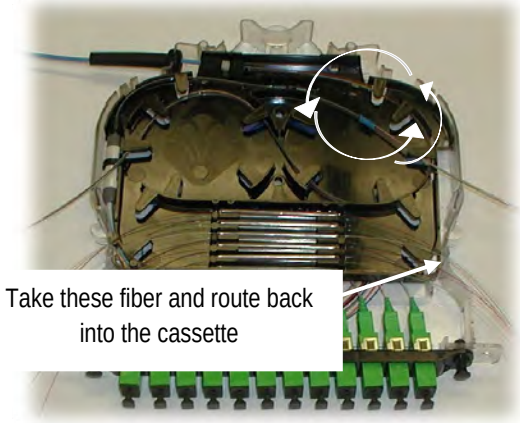
Continue until all 12-fibers are splice and loaded into the cassette.

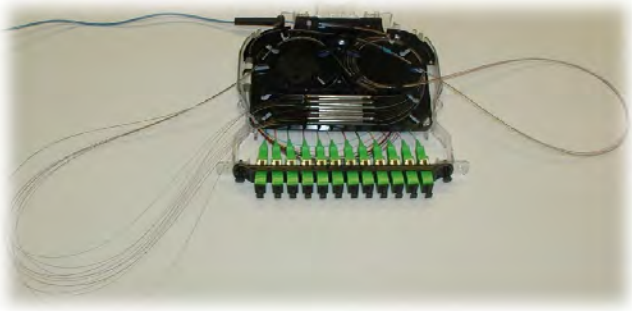
TIPS: It is recommended to apply a small amount of RTV over the first splice slot. This first slot is also the slot used for the ribbon splice sleeve if this was a ribbon cassette. The slot is slightly larger than the other 5 slots and the RTV will help hold the slice sleeve in place.





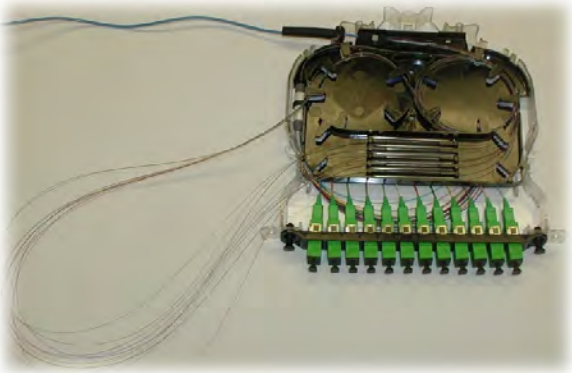
Now we need to route the extra fiber slack into the splice tray. Starting with the fibers coming out the right side of the splice sleeves, route the slack back into the on the right side of the cassette.





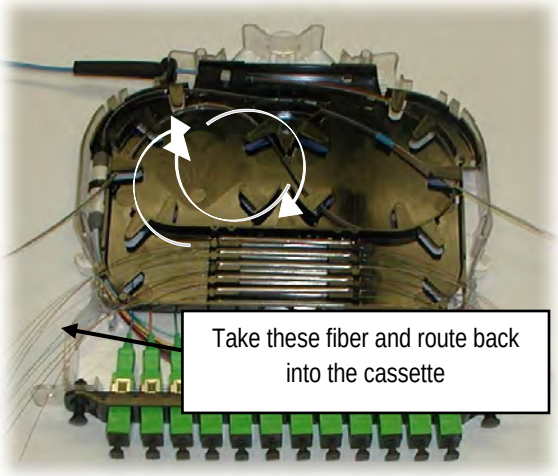
The fiber will naturally “crossover” itself.

Continue routing the cable into the right side of the cassette until all the slack is properly stored. This is what it will look like when the fiber on the right has been completed stored.

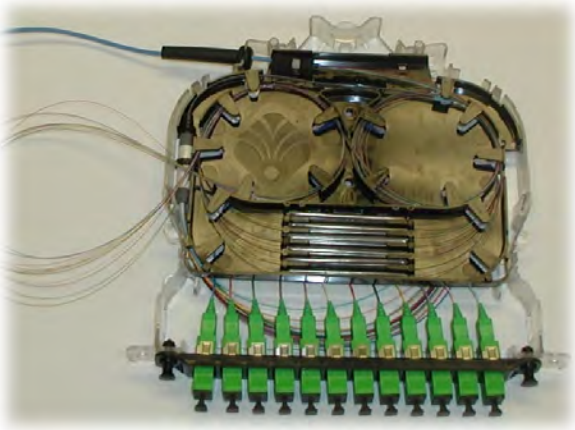


IMPORTANT NOTE: Make sure that the fiber is routed underneath the tabs of the splice tray as previously shown.

Now we need to route the extra fiber slack on the left side into the splice tray. Starting with the fibers coming out the left side of the splice sleeves, route the slack back into the on the left side of the cassette.

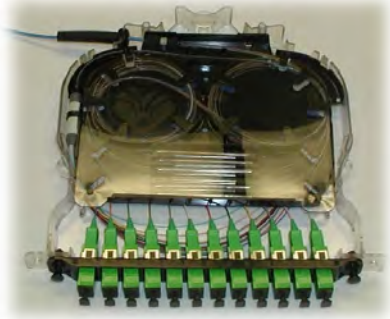


Continue routing the cable into the left side of the cassette until all the slack is properly stored. This is what it will look like when the fiber on the left has been completed stored.



This is what the cassette will look like after the splice and storage of the slack has been completed.

Put the splice cover back on.

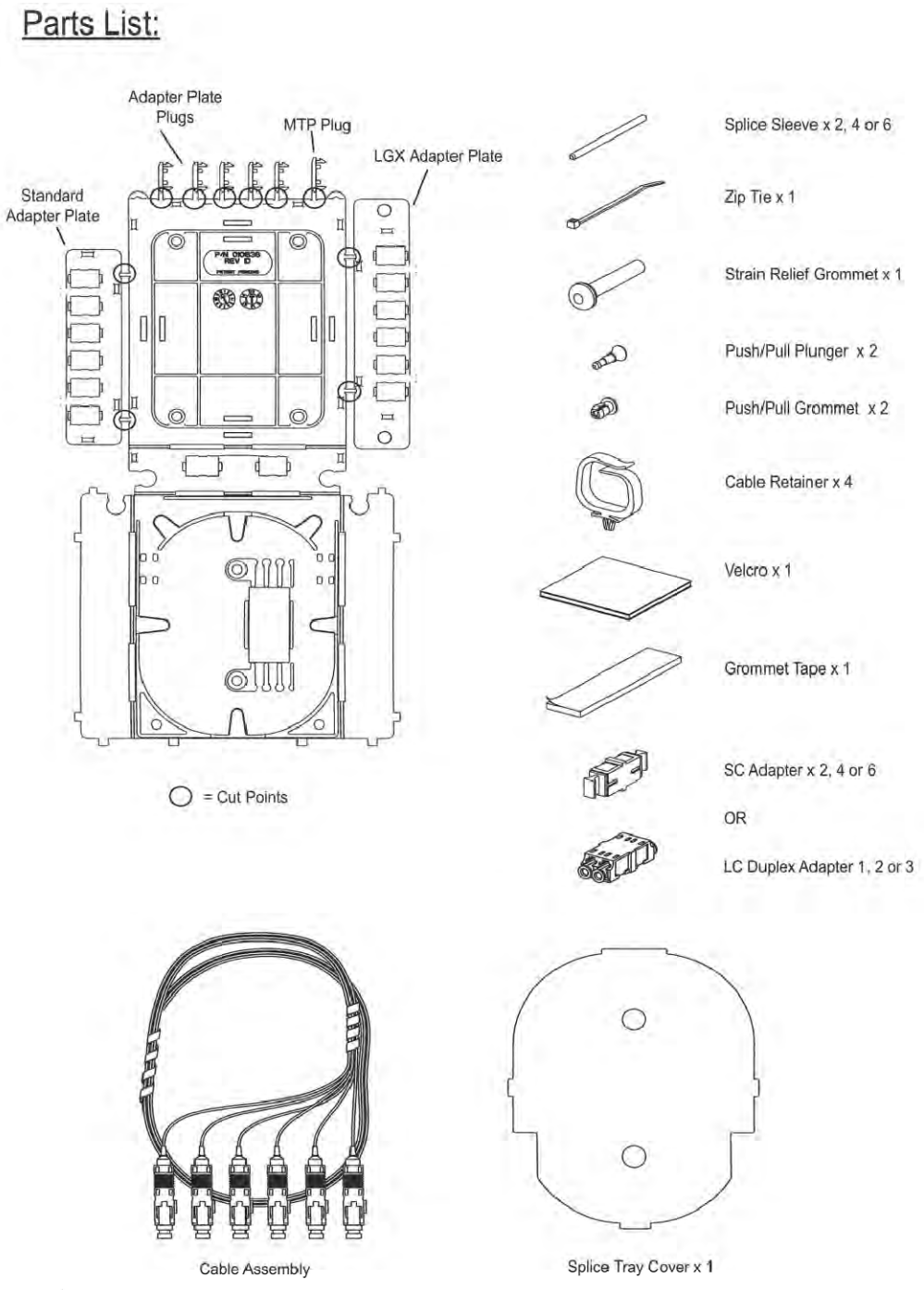


Put the cassette cover on and set aside. Total time for 1 cassette is dependent on the splice machine and the splicer's individual skill but it should take approximately _____ minutes.

Continue until all the cassettes have been spliced.

Clearview xPAK Overview

1. Carefully open the xPAK bag. All of the items listed below will be included.



2. With a side cutters or sharp knife, carefully cut the Two Adapter Face Plates and 6 Adapter Plate Plugs from the Plastic molded xPAK. Be sure to trim off any tabs or excess molded material from all parts.

3. With the xPAK oriented as pictured above, fold the back portion and one of the side walls up and snap them together. Repeat for other side.

4. If you are using the Strain Relief Grommet –install in the correct opening before snapping the back wall and side wall together.

5. Install the Adapters in the correct adapter plate (Either Standard or LGX Plate).

6. Snap the Adapter Plate on the front of the xPAK and then snap the sides into the Adapter Plate.

7. Snap in the Adapter Plate Plugs in to any of the open adapter ports (both front and rear of xPAK).

8. Install Cable assembly into rear of adapters and prep fiber for splicing

9. Route incoming cable thru Strain Relief Grommet and prep cable for splicing

10. Splice Cable assembly to incoming fiber, using the Splice Sleeves provided in the kit. RTX may be used to secure splice sleeves to splice holder in xPAK

11. Route spliced cable as shown on card supplied with xPAK.

12. Install Splice Tray cover –snap in place

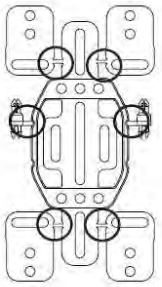
13. Snap top cover onto assembled xPAK box (there should be 6 snap points – make sure all are snapped correctly.

14. If LGX Adapter Plate is used, Install Push/Pull Grommet and Plunger into the holes on the side of the faceplate

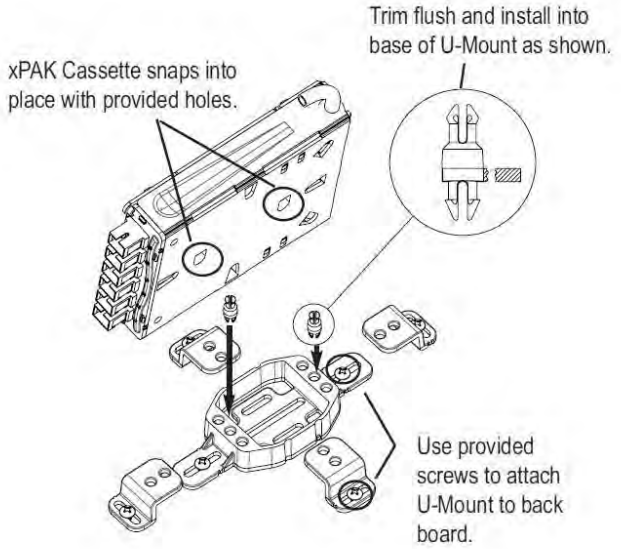
15. Optional slack storage clips can be added to the top cover of the xPAK

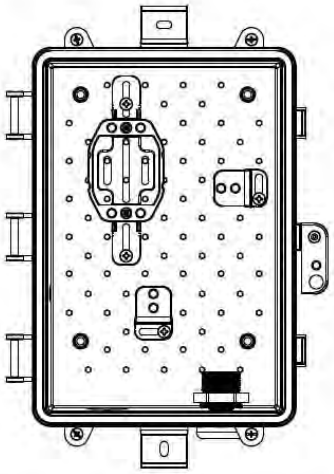
16. Mounting the xPAK, can be done with the 2" x 2" Velcro provided or by using the two retaining plugs that snap into the U-Mount bracket –that is included with each xPAK.

U-Mount

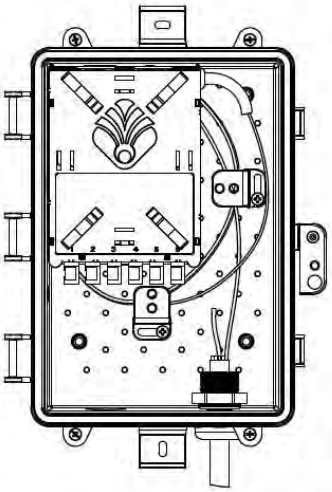


Cut at circles.

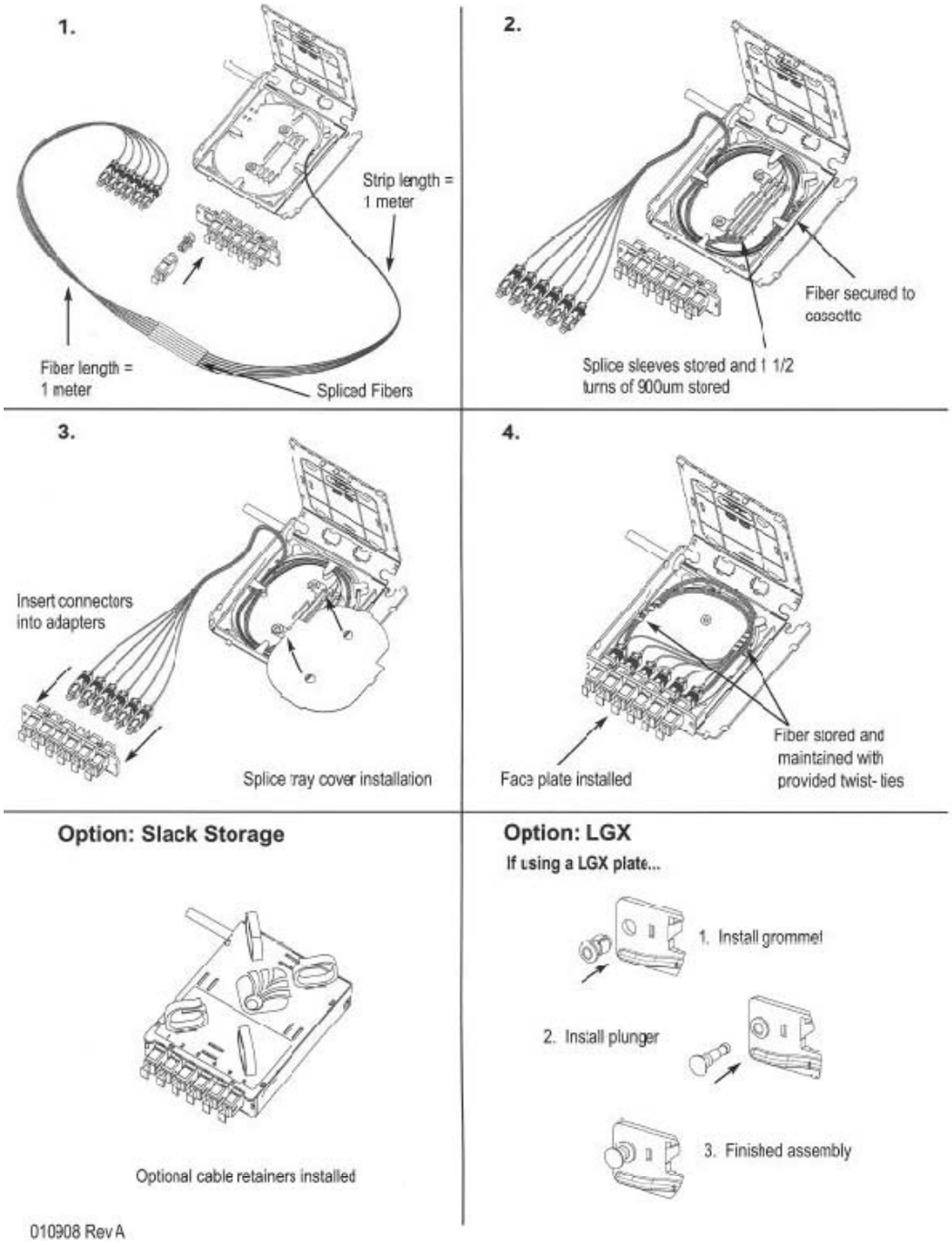




U-Mount installed in Clearfield Wall Box



xPAK attached and buffer tube slack stored below xPAK in U-Mount clips.



Part numbers 010908 and 012022

Splicing in the Clearview xPAK

1. The Clearview xPAK comes packaged with the following items included:
    a. Pigtail assemblies x 2, 4 or 6
    b. Splice Sleeve x 2, 4 or 6
    c. Zip Tie x 1
    d. Strain Relief Grommet x 1
    e. Push/Pull Plunger x 2
    f. Push/Pull Grommet x 2
    g. Cable Retainer x 4
    h. Velcro x 1
    i. Grommet Tape x 1
    j. SC Adapter x 2, 4 or 6 or LC Duplex Adapter x 2, 4 or 6
    k. Splice Tray Cover x 1
    l. xPAK enclosure x 1

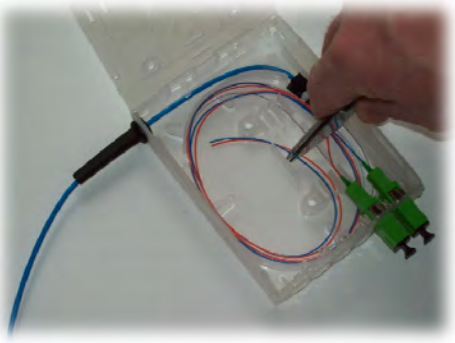
2. Remove the xPAK from the packaging.

3. Trim the pieces off with snips or diagonal cutters.

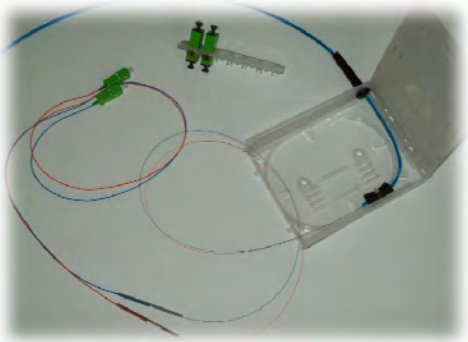
4. Prepare the field fiber being spliced (drop) by opening three meters of buffer tube.

5. Slide the strain relief grommet over the exposed buffer tube, remove one meter of buffer tube, wrap a piece of grommet tape ¼ inch from the end of the buffer tube and secure the buffer tube (at the center of the grommet tape) to the xPAK with the supplied zip tie.

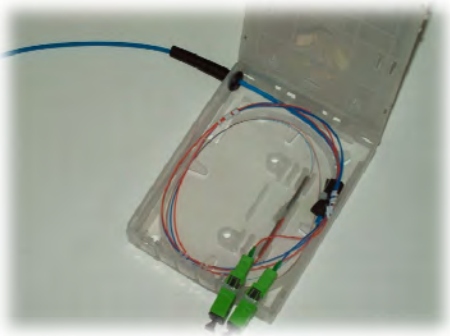
6. Route 1 and ½ turns of 900 micron fiber and the field fiber in the fiber storage area to estimate the length for proper storage. Cut off the excess of each at the center of the splice holder area.



7. Slide the provided splice sleeve protectors over the fibers to be spliced and splice the fibers and shrink the sleeves.



8. Route the field fibers in the bottom area of the splice tray and install the splice tray cover. Route the 900 micron fibers on top of the splice tray cover and dress them with the white twist ties supplied on the pigtail assemblies.



9. Secure the splice sleeves in the splice tray using silicone sealant.

10. Fold the xPAK closed and install the appropriate face plate (standard or LGX style with grommet and plunger installed).

11. The xPAK assembly is now complete.

Clearview Blue

Splicing in the Clearview Blue Cassette

The Clearview Blue Cassette is capable of being used in a multitude of applications. Based on each individual application, the cable exit points and method of slack storage are different.

1. Splicing loose tube fiber utilizing the lower level buffer tube storage
    a. FieldSmart FxHD Frame
    b. FSC-HD Cabinet
    c. FieldSmart FxDS Frame and associated panels if no rear protection or slack management spools are used.
2. Splicing Ribbon fiber utilizing lower level ribbon storage
    a. FieldSmart FxHD Frame
    b. FSC HD Cabinet
3. Splicing for use in Legacy products
    a. FieldSmart FxDS frame and associated panels with slack basket or rear frame slack storage
    b. FSC Cabinet line
    c. FieldSmart FxHD rear entry frame utilizing slack management spools

Splicing Loose Tube Fiber Using Clearview Blue Cassette

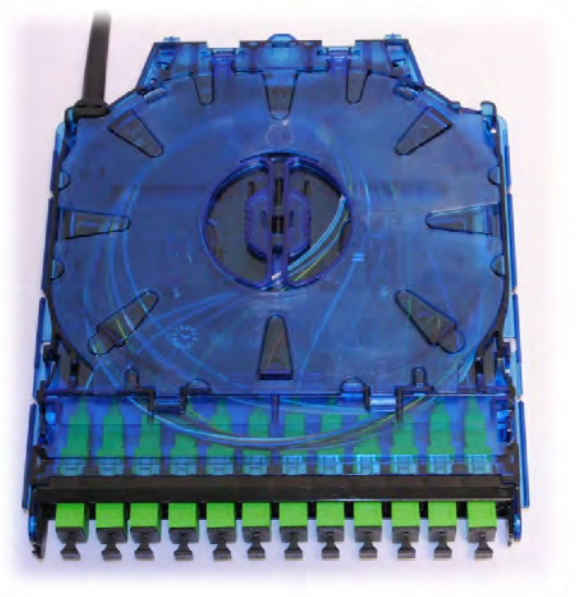
The Clearview Blue Cassette is capable of being used in a multitude of applications. Based on each individual application, the cable exit points and method of slack storage are different.

4. Splicing loose tube fiber utilizing the lower level buffer tube storage
    a. FieldSmart FxHD Frame
    b. FSC-HD Cabinet
    c. FieldSmart FxDS Frame and associated panels if no rear protection or slack management spools are used.
5. Splicing Ribbon fiber utilizing lower level ribbon storage
    a. FieldSmart FxHD Frame
    b. FSC HD Cabinet
6. Splicing for use in Legacy products
    a. FieldSmart FxDS frame and associated panels with slack basket or rear frame slack storage
    b. FSC Cabinet line
    c. FieldSmart FxHD rear entry frame utilizing slack management spools

Splicing Loose Tube Fiber Using Clearview Blue Cassette

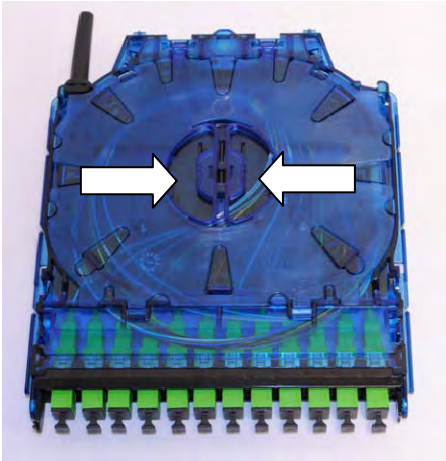
The Clearview Blue will arrive as shown below:

Top View



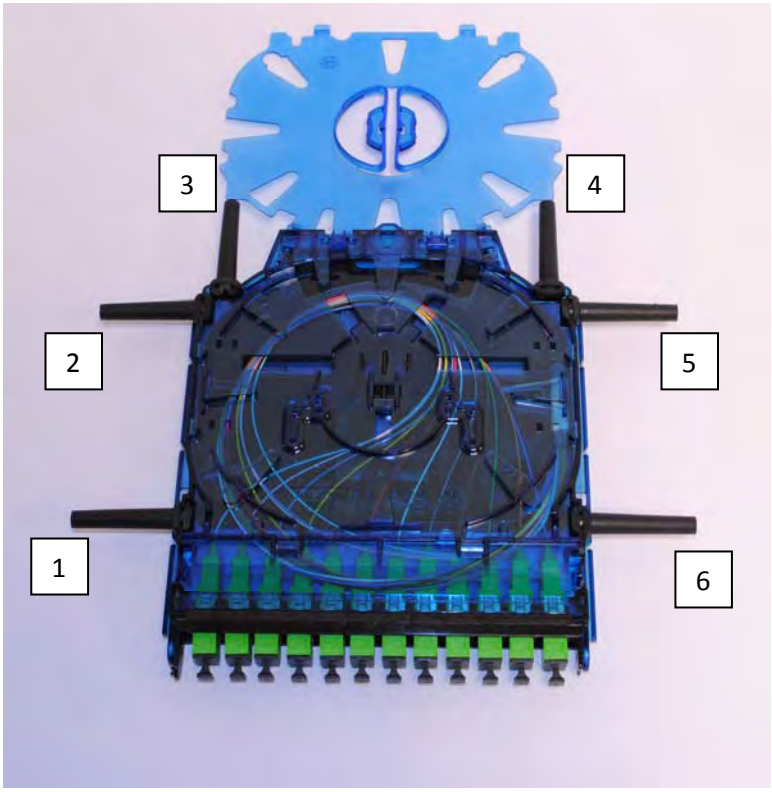
Bottom View

The bottom slack storage cover is opened by squeezing the center section and pulling up.

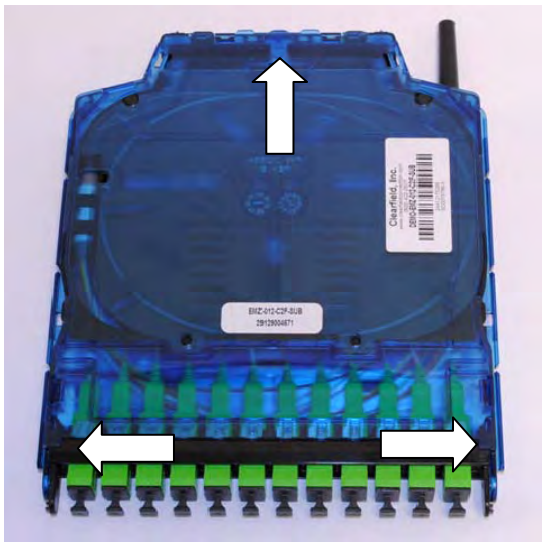


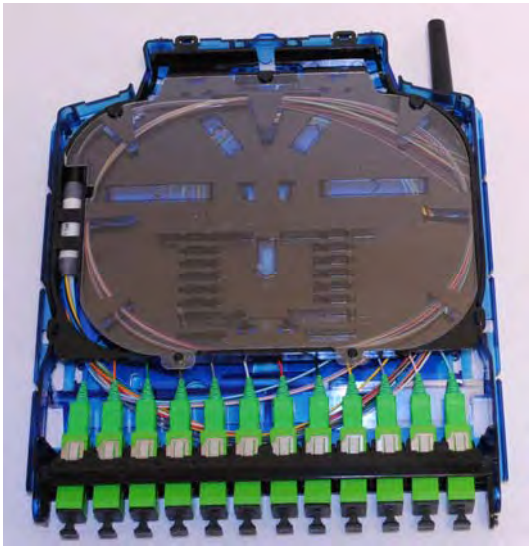
Once the cover is open, identify which entrance port is intended to be used. NOTE: A boot is shown in every location, but the cassette will only include *one*.

1. For right hand side of FxHD frame
2. For use on right hand side of FxDS Panels with no rear protection
3. Currently not used
4. Currently not used
5. For use on left hand side of FxDS Panels with no rear protection
6. For right hand side of FxHD Frame

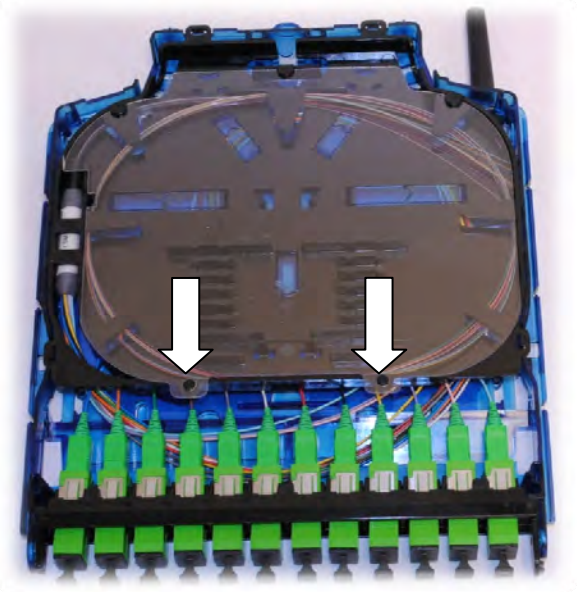


Opening the lower slack storage door to 90 degrees will allow you to lift the door away from the base. Remove the top cover by pressing on the locking tabs identified by the arrows on the top of the plastic.



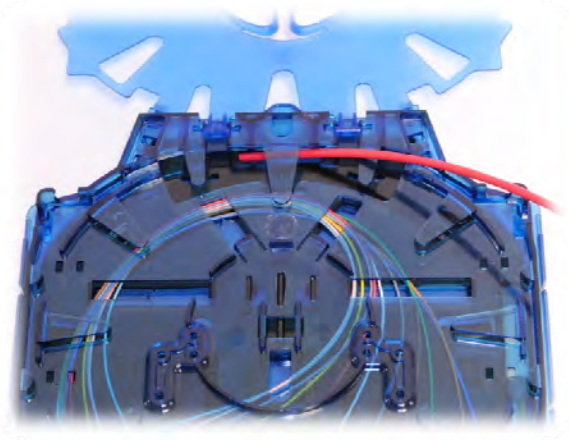


The splice tray cover can be removed by lifting on the two ears at the front of the cover. You will notice that for loose tube cassettes the fiber assembly inside is composed of a ribbon that has been fanned out.

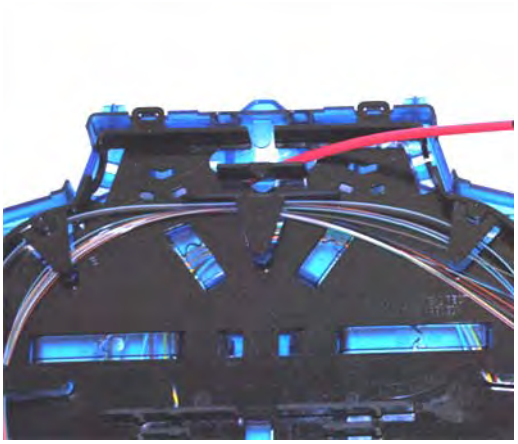


Slide the included rubber boots on to the buffer tube to be spliced, making sure to insert as shown.

For cable exits 1, 3, and 5, insert the buffer tube to be spliced into the bottom of the cassette as shown. The buffer tube will extend into splice tray through the access hole in the splice tray.

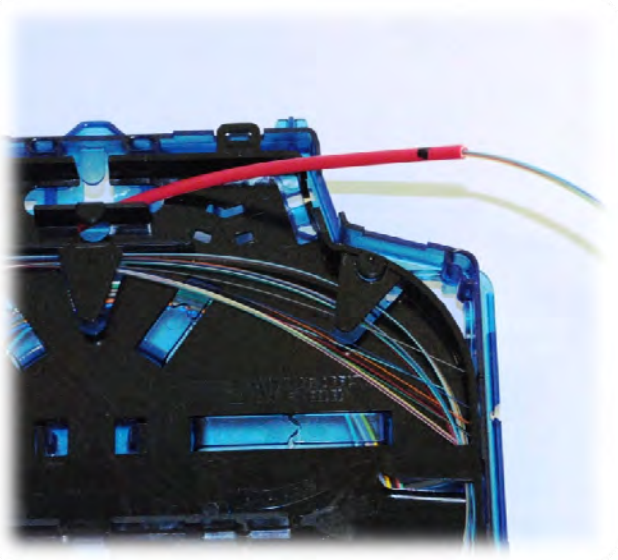


Bottom View

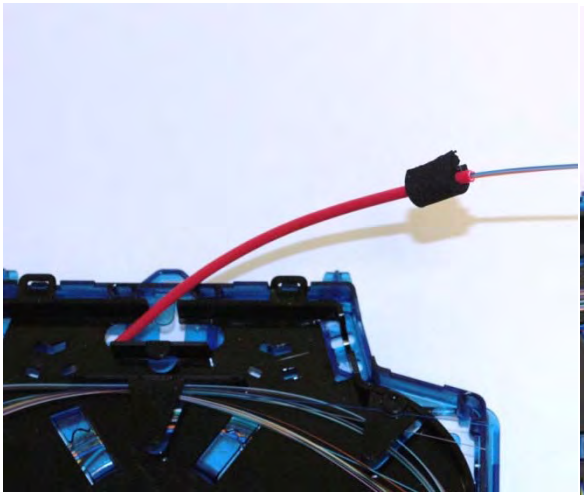


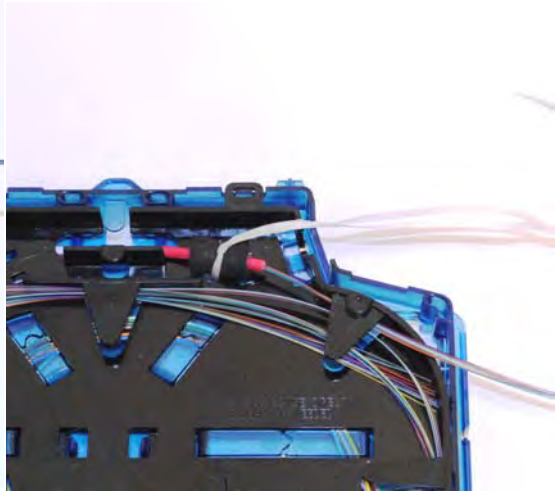
Top View

Measure three feet from the end of the buffer tube, and mark the jacket with a permanent marker. Next, remove the outer jacket just ahead of the black mark.

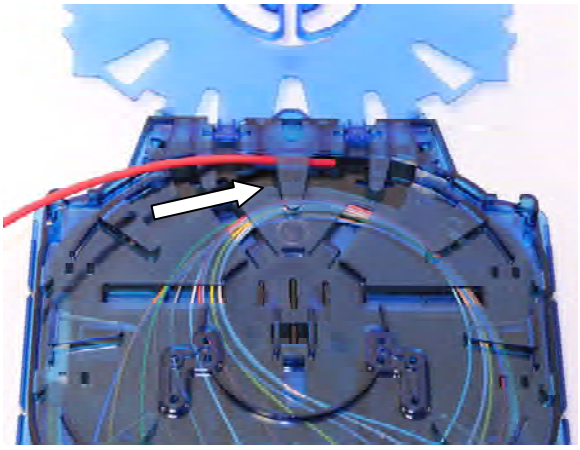


Using a small piece of grommet tape, wrap the buffer tube to protect it and tie it to the inside-most location.

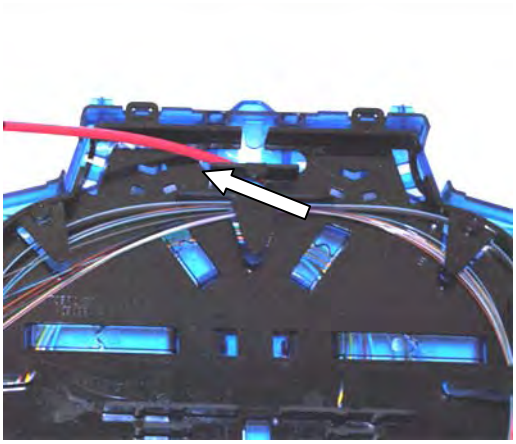




For cable exits 2, 4 and 6, insert the buffer tube to be spliced into the bottom of the cassette as shown. The buffer tube will extend into splice tray through the access hole in the splice tray.

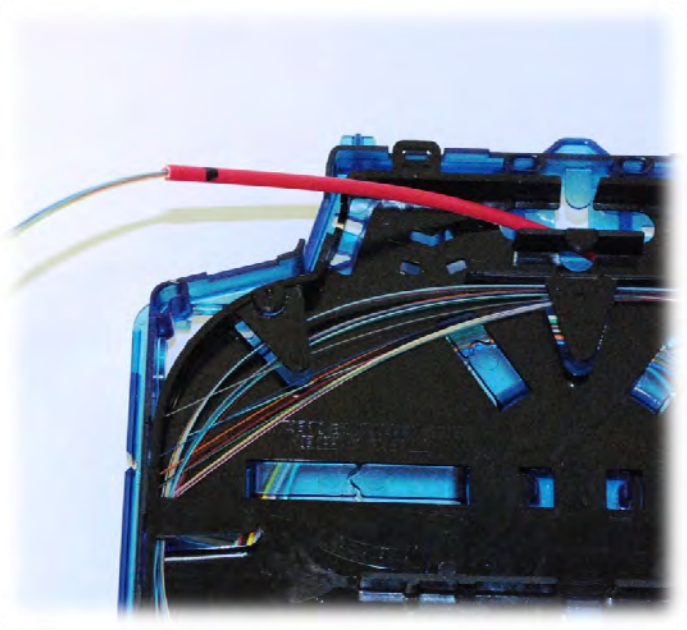


Bottom View

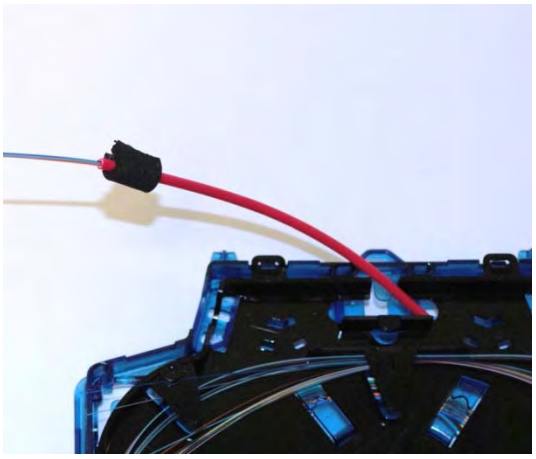


Top View

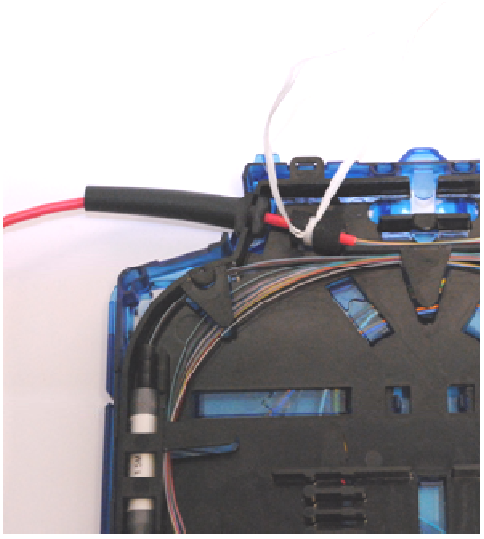
Measure three feet from the end of the buffer tube, and mark the jacket with a permanent marker. Next, remove the outer jacket to the black mark.

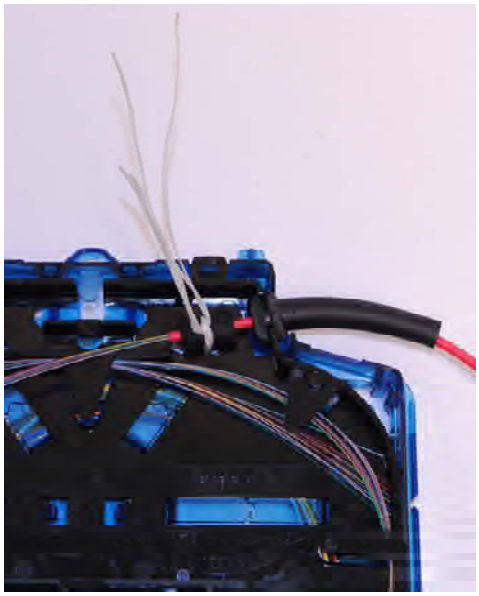


Using a small piece of grommet tape, wrap the buffer tube to protect it and tie it to the inside-most location.



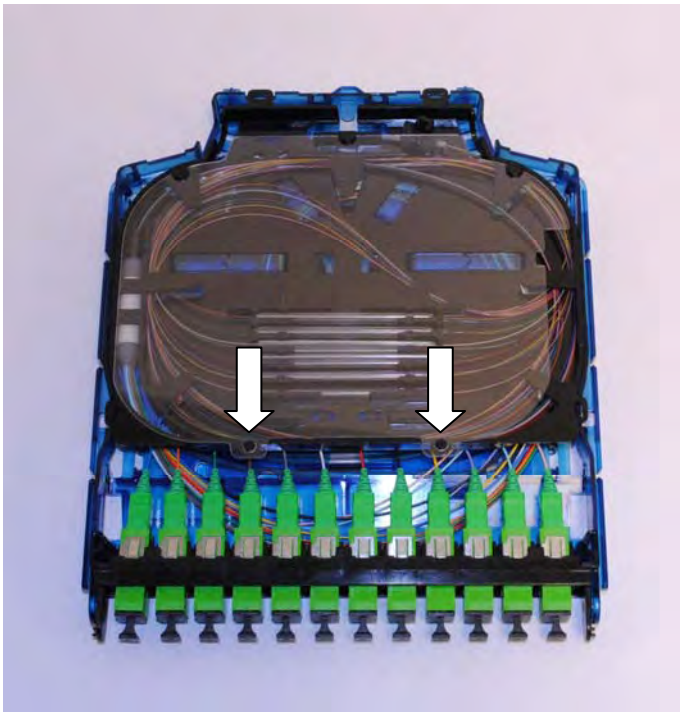
For use in legacy products the boot and buffer tube can be installed as shown below. In this situation, the lower slack storage is not utilized.



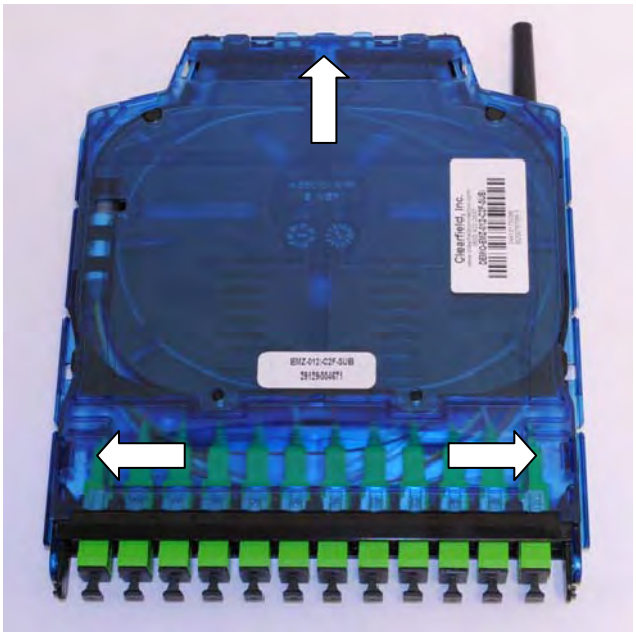


Splice the fibers in order and store in the tray as shown. NOTE: The “S” redirect maybe needed based on cable exit.

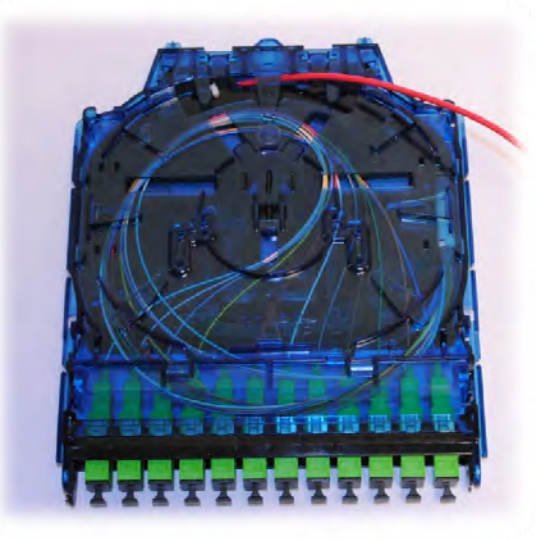
Replace the splice tray cover and secure by pushing on the tabs to seat the posts within the holes.



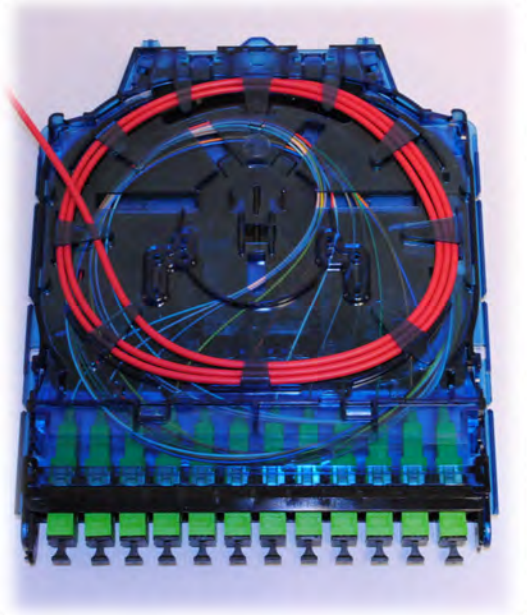
Replace the top cover making sure to latch at the arrows.



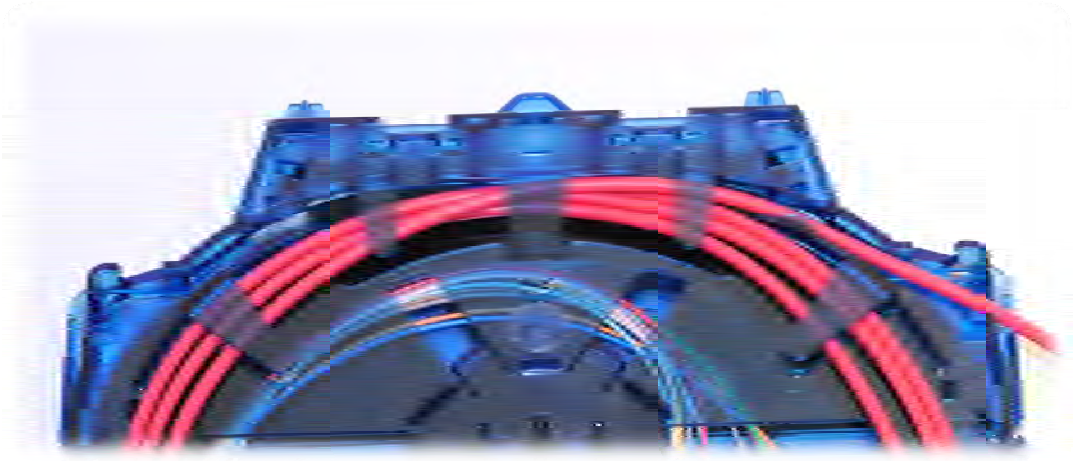
Next, flip the cassette over to begin storing the slack. For exits 1, 3 and 5, the cassette will route in a clockwise direction.



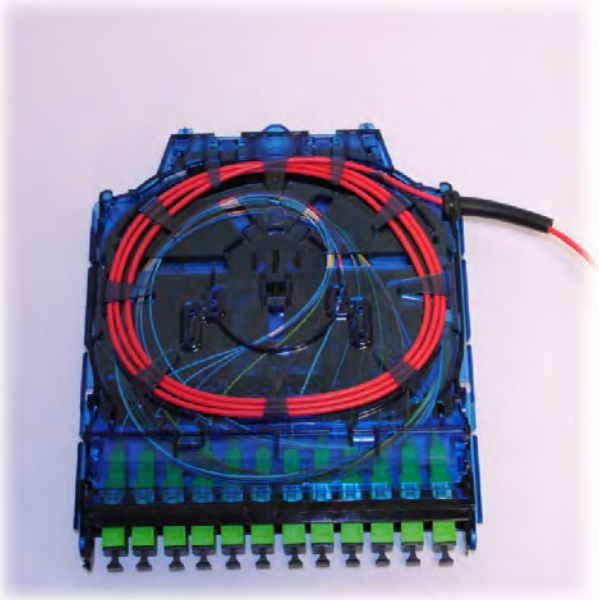
Store the buffer tube as shown. You can store up to 10 feet of 3mm buffer tube in the bottom of the cassette, however Clearfield recommends keeping the slack stored to 8 feet or less.



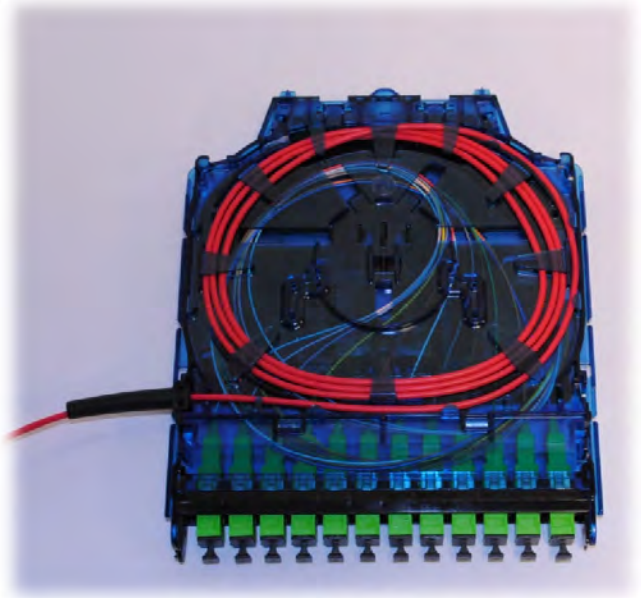
After the desired amount of slack has been stored, route the buffer tube across the coil to get to the outside exit track of the cassette.



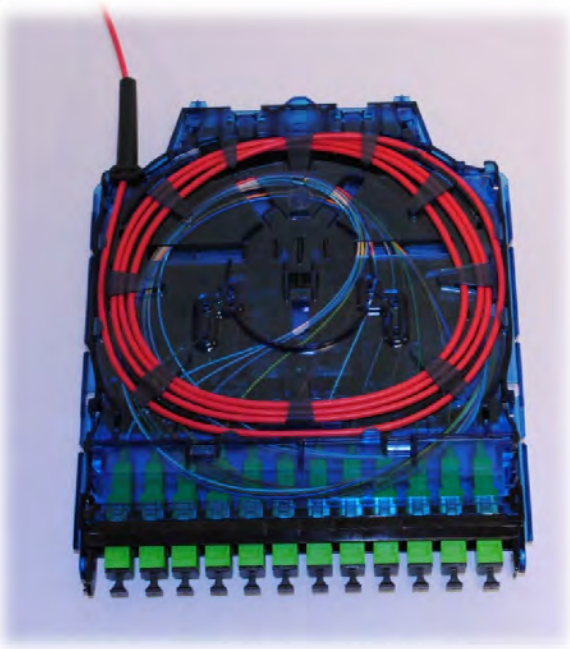
For exit #5, the boot can then be slid up and inserted into the boot retainer.



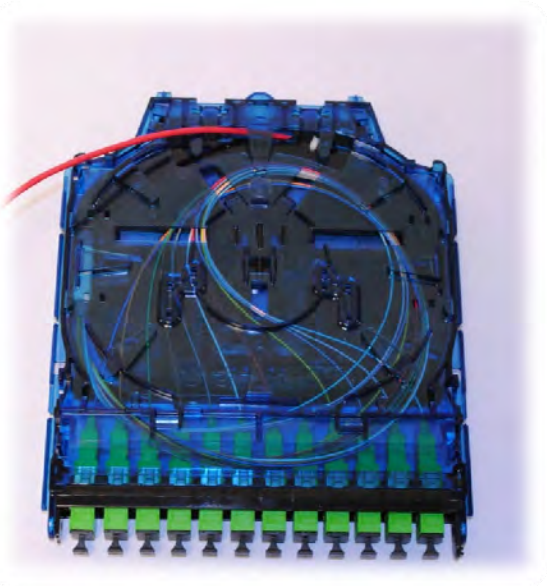
For exit #1, continue around the outside exit track and place the boot in the retainer at the exit.



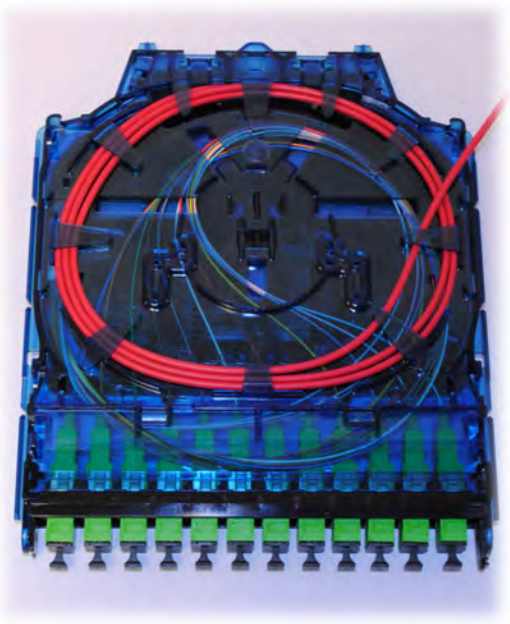
For exit #3, continue further around the exit track and place the boot in the retainer at the exit.



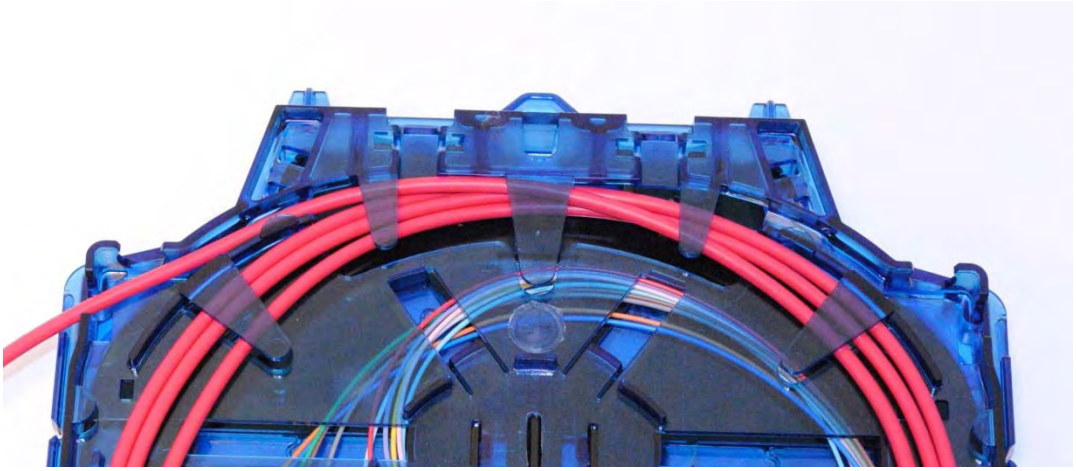
For exits 2, 4, and 6, the cassette will route in a counter-clockwise direction.



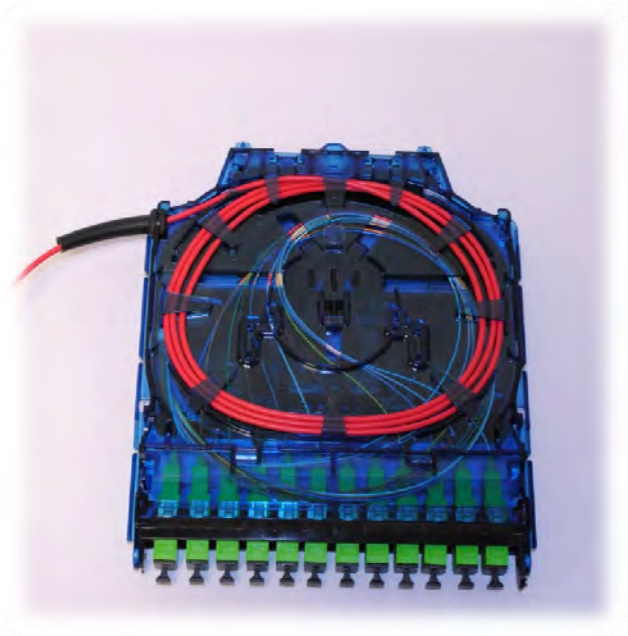
Store the buffer tube as shown. You can store up to 10 feet of 3mm buffer tube in the bottom of the cassette, however Clearfield recommends keeping the slack stored to 8 feet or less.



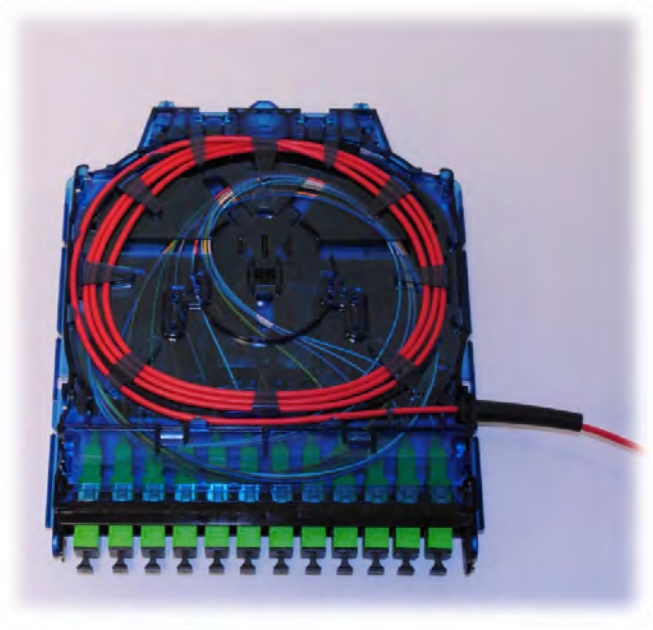
After the desired amount of slack has been stored, route the buffer tube across the coil to get to the outside exit track of the cassette.



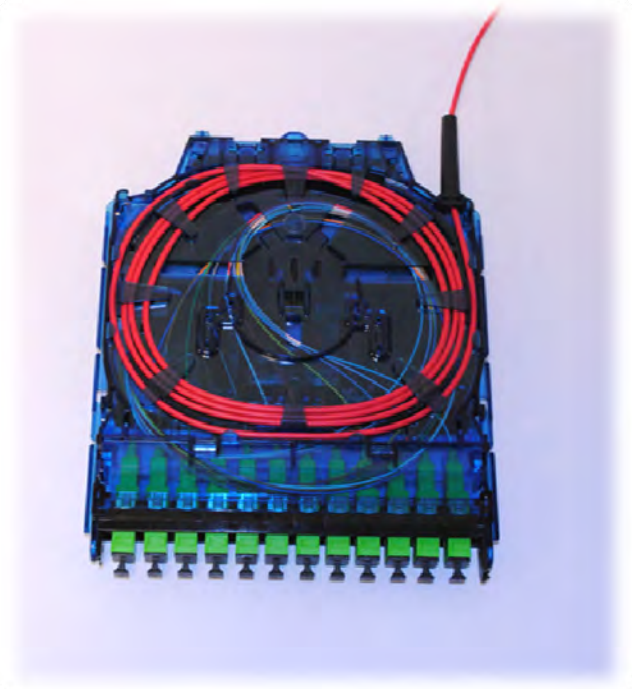
For exit #2, the boot can then be slid up and inserted into the boot retainer.



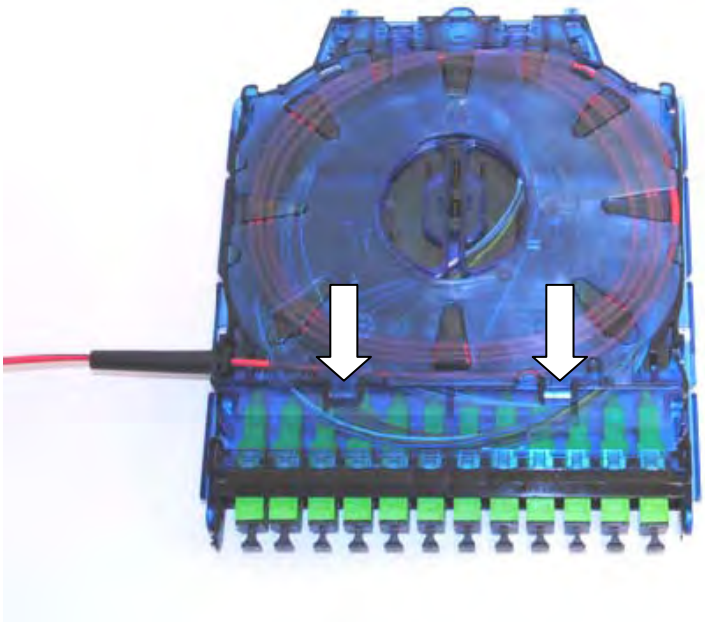
For exit #6, continue around the outside exit track and place the boot in the retainer at the exit.



For exit #4, continue further around the exit track and place the boot in the retainer at the exit.



The slack storage cover can now be replaced on the bottom. Slightly flex the cover and insert the two tabs at the front of the cassette before pressing the center to engage the locking tabs.

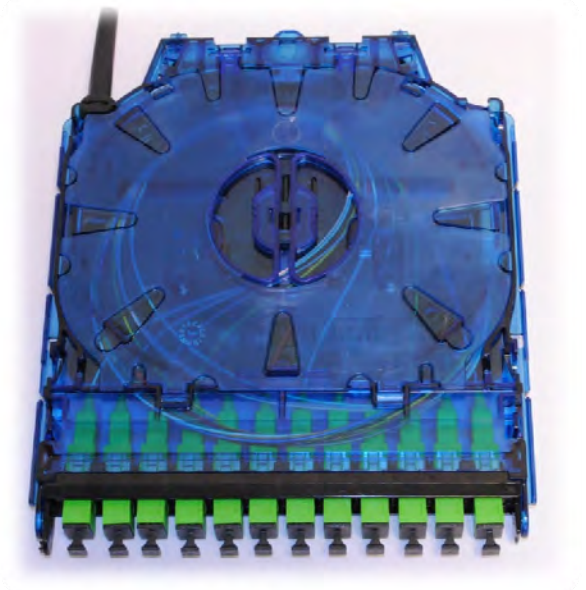


The cassette is now ready to mount in the desired management housing.

Splicing Ribbon Fiber in the Clearview Blue Cassette

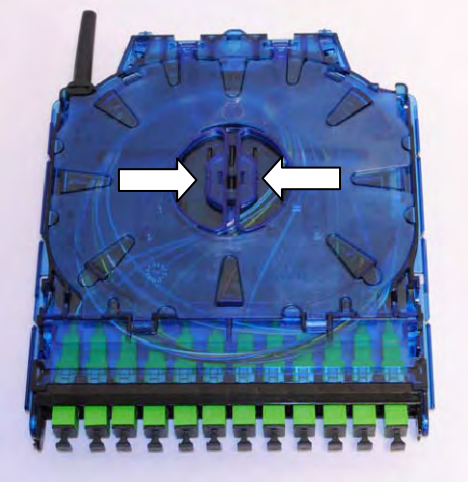
The cassette will arrive as shown below:

Top View



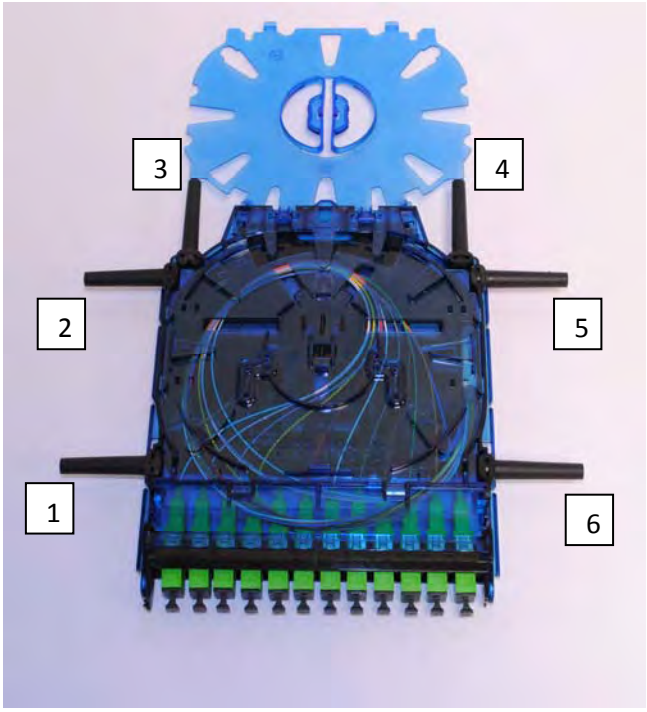
Bottom View

The bottom slack storage cover is opened by squeezing the center section and pulling up.



Once the cover is open, identify which entrance port is intended to be used. NOTE: a boot is shown in every location, but the cassette will only include one.

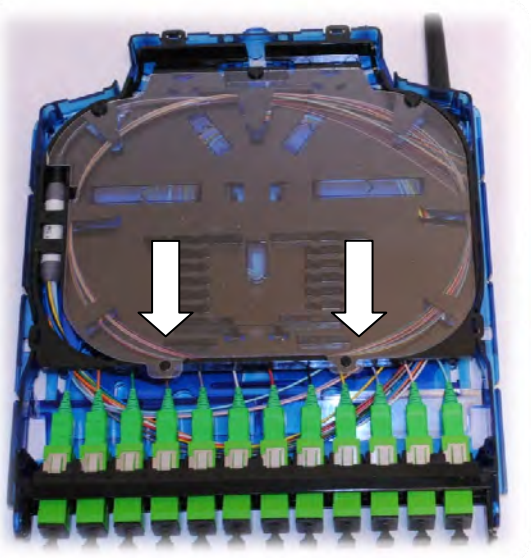
1. For right hand side of FxHD frame
2. For use on right hand side of FxDS Panels with no rear protection
3. Currently not used
4. Currently not used
5. For use on left hand side of FxDS Panels with no rear protection
6. For right hand side of FxHD frame



The bottom cover can be removed by opening it to 90 degrees and lifting straight up.

Remove the top cover by pressing on the locking tabs identified by the arrows on the top of the plastic.

The splice tray cover can be removed by lifting on the two ears at the front of the cover.



**If using a ribbon breakout kit, the boot is attached to the ribbon furcation tube as follows.

Trim the furcation tube approximately 3" past the previously marked location.

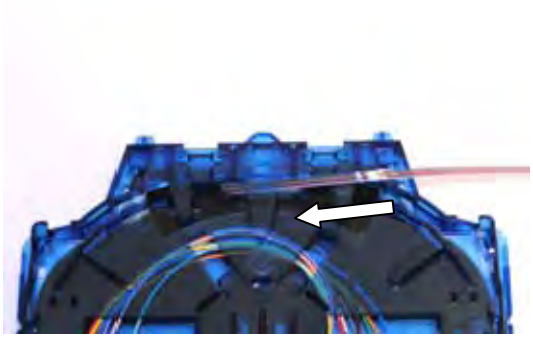
Then, cut the tubing lengthwise to within ½" of the mark.

Now, compress the two sides together and insert into the boot as shown.

Pull the furcation through the boot until the mark is showing around ½" past the end of the boot.

Now, trim the tubing to remove the slit portions and slide onto the ribbon to be spliced.

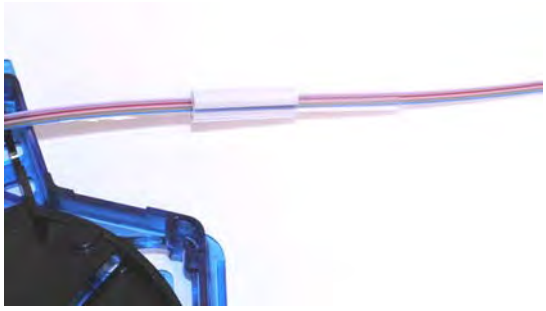
If utilizing the rear storage and exits 1, 3, or 5, insert the ribbon to be spliced into the bottom of the cassette as shown. The ribbon will extend into splice tray through the access hole in the splice tray.

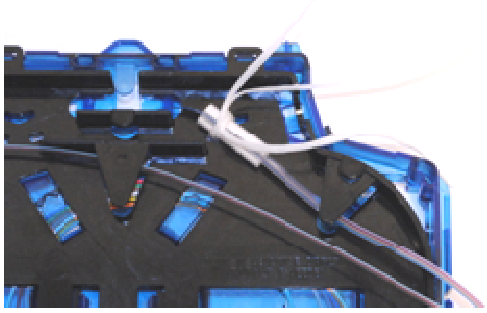


Bottom View

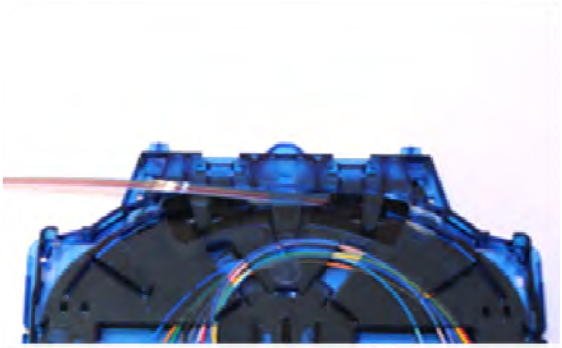
Top View

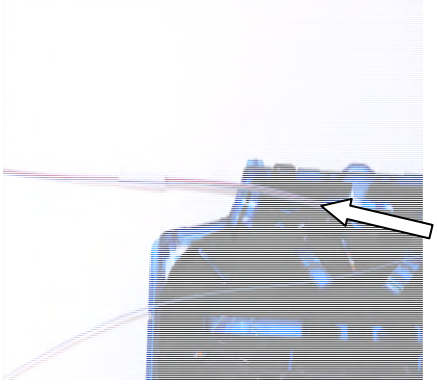
Once the ribbon is in the cassette, a ribbon tie down (included with the cassette) can be installed on the ribbon. Measure three feet from the end of the ribbon and then heat the tie down onto the ribbon. The tie down can then be tied to the splice tray as shown.





If utilizing the rear storage and exits 1, 3, or 5, insert the ribbon to be spliced into the bottom of the cassette as shown. The ribbon will extend into splice tray through the access hole in the splice tray.

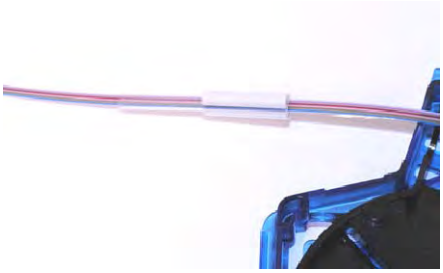




Bottom View

Top View

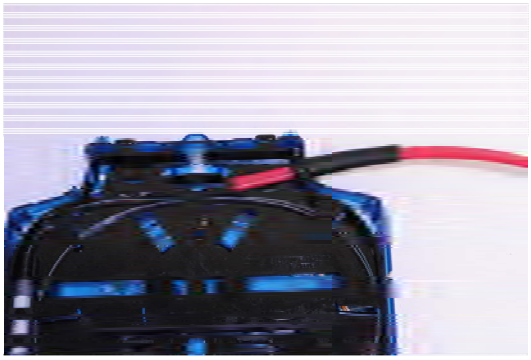
Once the ribbon is in the cassette, a ribbon tie down (included with the cassette) can be installed on the ribbon. Measure three feet from the end of the ribbon and then heat the tie down onto the ribbon. The tie down can then be tied to the splice tray as shown.



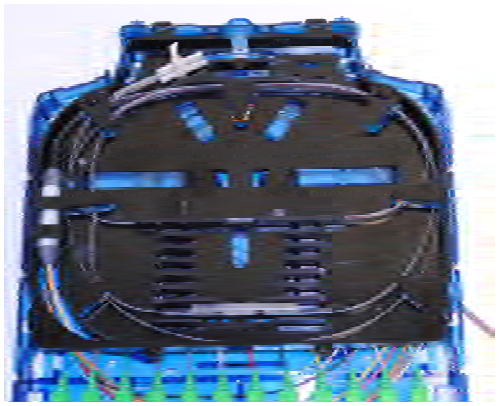
Bottom View

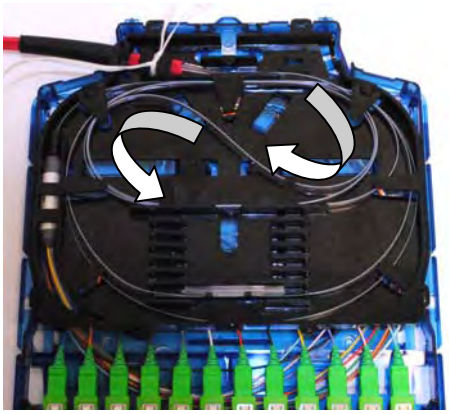
Top View

For use in legacy products the boot and furcation tube can be installed as shown below. In this situation, the lower slack storage is not utilized.

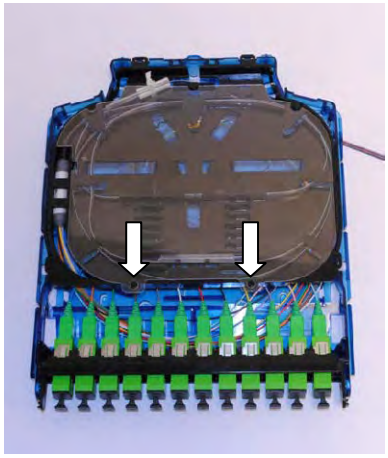


Splice the fibers in order and store in the tray as shown. NOTE: The “S” redirect may be needed based on cable exit.





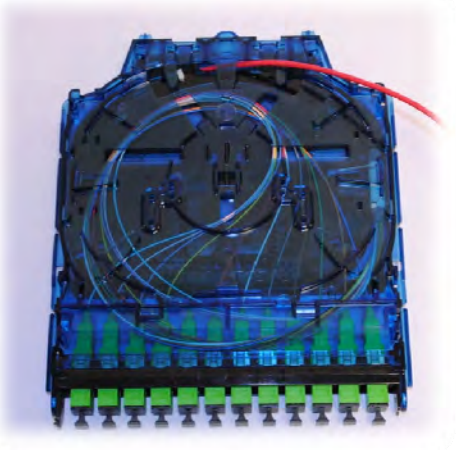
Replace the splice tray cover and secure by pushing on the tabs to seat the posts within the holes.



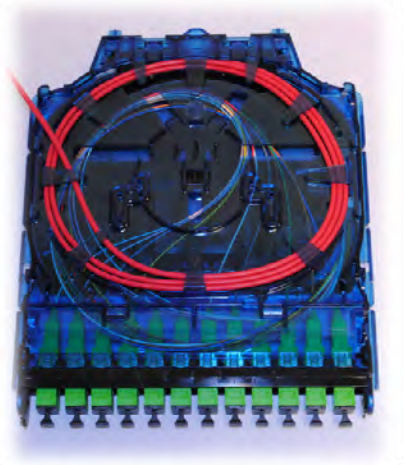
Replace the top cover making sure to latch at the arrows.

Next, flip the cassette over to begin storing the slack. For exits 1, 3 and 5, the cassette will route in a clockwise direction.

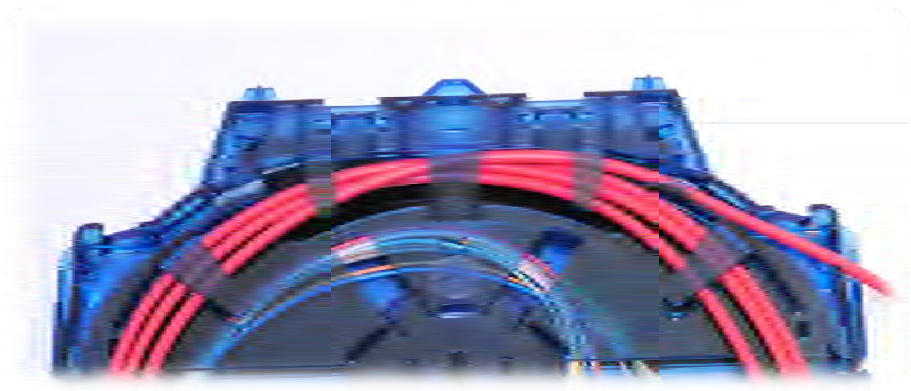
NOTE: Buffer tube is shown here to aid in visibility, but ribbon routing is done in the same fashion. Store the slack in the tray until the boot has been coiled up to meet the mounting location.



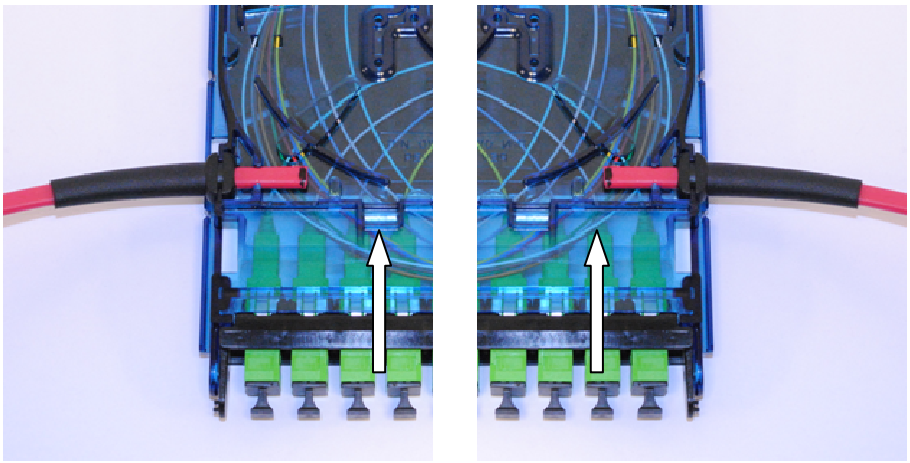
Store the ribbon as shown.



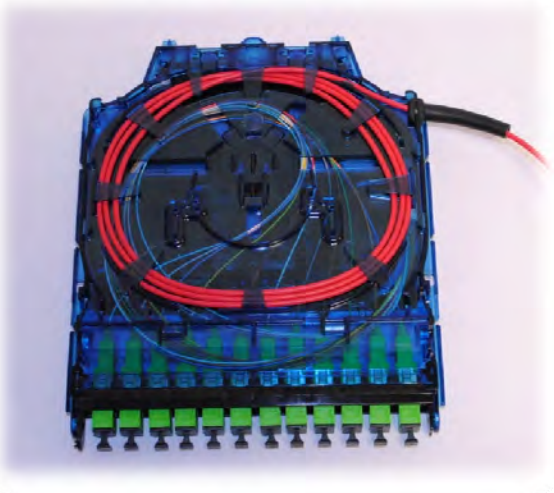
After the desired amount of slack has been stored, route the buffer tube across the coil to get to the outside exit track of the cassette.



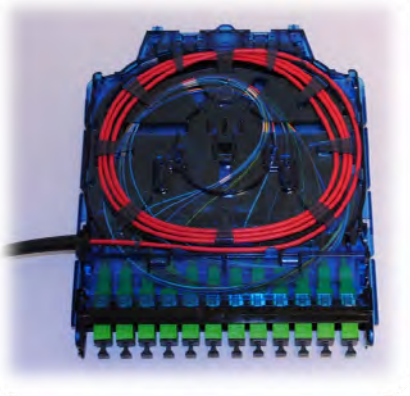
The ribbon boot can be installed the same as the loose tube variant in each of the several locations. In location #1 and #6, there are extra clips to help hold the furcation tubing in place.



For exit #5, the boot can then be slid up and inserted into the boot retainer.

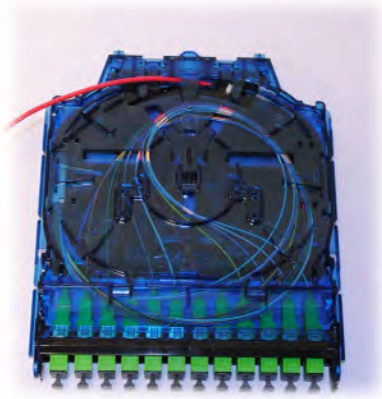


For exit #1, continue around the outside exit track and place the boot in the retainer at the exit.

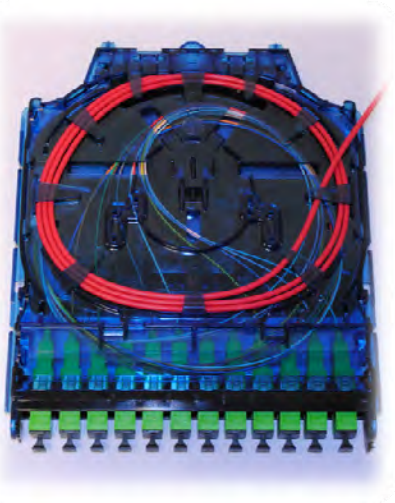


For exit #3, continue further around the exit track and place the boot in the retainer at the exit.

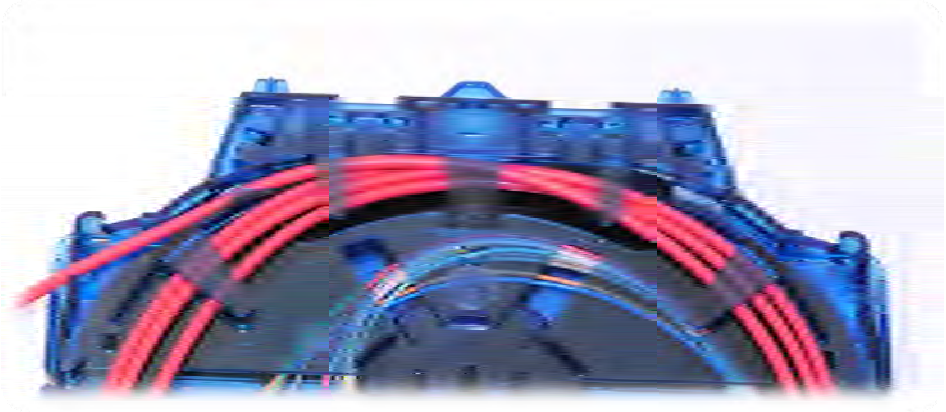
For exits 2, 4, and 6, the cassette will route in a counter-clockwise direction.



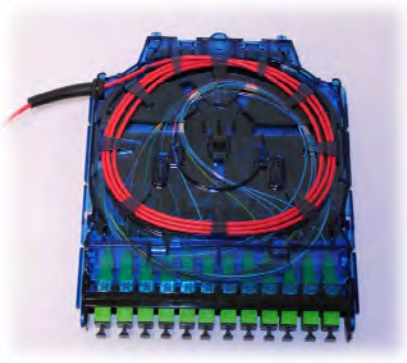
Store the buffer tube as shown. You can store up to 10 feet of 3mm buffer tube in the bottom of the cassette, however Clearfield recommends keeping the slack stored to 8 feet or less.



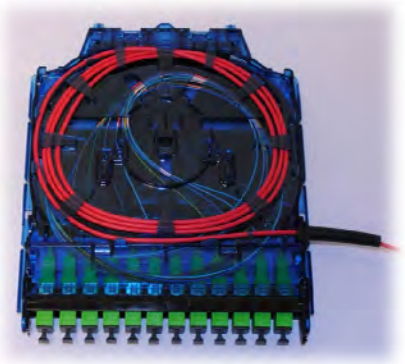
After the desired amount of slack has been stored, route the buffer tube across the coil to get to the outside exit track of the cassette.



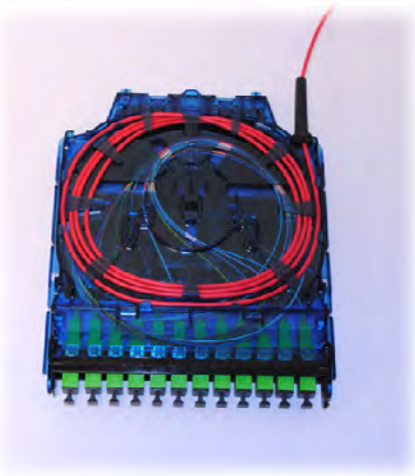
For exit #2, the boot can then be slid up and inserted into the boot retainer.



For exit #6, continue around the outside exit track and place the boot in the retainer at the exit.



For exit #4, continue further around the exit track and place the boot in the retainer at the exit.



The slack storage cover can now be replaced on the bottom. Slightly flex the cover and insert the two tabs at the front of the cassette before pressing the center to engage the locking tabs.

The cassette is now ready to mount in the desired management housing.