Clearview
Classic Cassettes

Installation Manual

Clearview Classic (HD) High Density

Part #: 016781
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CLEARFIELD

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Proprietary Notice

About Clearview 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.

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.
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Standard Warranty

Clearfield warrants to the original purchaser of the Product sold hereunder is free from defects in material and workmanship under normal use and service, subject to exceptions stated herein. Product purchased is warranted as follows: Clearfield designed and branded Products are warranted for five (5) years: Products manufactured by Clearfield to customer prints and/or specifications are warranted for one (1) year; and any Product Clearfield acquires from or through a third-party manufacturer or distributor and resells to Customer as the original customer will carry the manufacturer's pass-through warranty, if any. In all cases, the warranty period commences on the date of shipment to the original purchaser.

Warranty Claim Procedure

If any Product purchased from Clearfield is found defective under the above warranty, the following basic procedure must be followed:

1) Customer must contact Clearfield and obtain a Return Materials Authorization
2) Following authorization, the Customer ships the product-freight collect-to Clearfield's manufacturing facility
3) Clearfield shall repair or replace the defective Product at its sole option and discretion, and return the repaired or replacement Product to Customer's site, freight prepaid

Note: *If the Product is not found to be defective at Clearfield, the product will be returned to the Customer and the customer billed for freight in both directions.*

Limitations of Warranty

Correction of defects by repair or replacement, at the option of Clearfield Inc, shall constitute the exclusive sole remedy for a breach of this limited warranty. Clearfield shall not be liable under any circumstances for any special, consequential, incidental, punitive, or exemplary damages arising out of or in any way connected with the product or with agreement to sell product to buyer, including, but not limited to damages for lost profits, loss of use, or for any damages or sums paid by buyer to third parties. The foregoing limitation of liability shall apply whether the claim is based upon principles of contract, warranty, negligence or other tort, breach of statutory duty, principles of indemnity or contribution, the failure of any limited or exclusive remedy to achieve its essential purpose, or otherwise.

Clearfield will not be responsible for any labor or materials costs associated with installation or incorporation of Clearfield products at customer sites, including any costs of alteration, replacement or defective product, or any field repairs.

Other Limitations

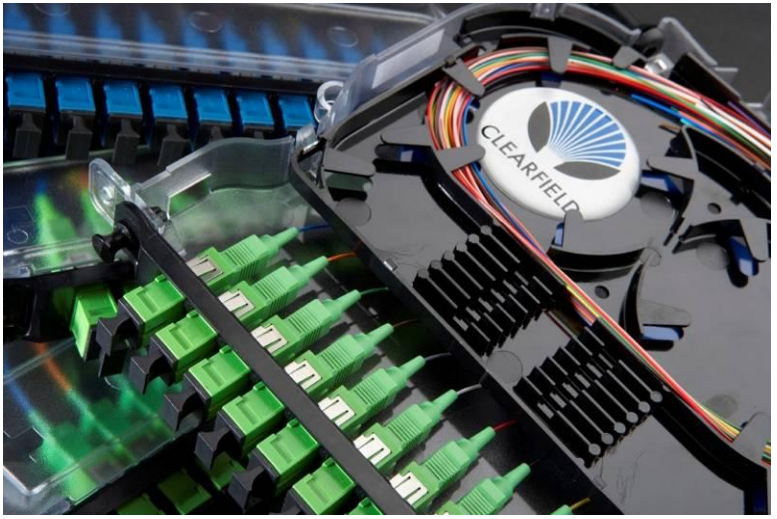
Clearfield assumes no warranty liability regarding defects caused by:

1) Customer's modification of Product, excepting installation activities described in Clearfield documentation
2) Customer re-packaging of Product for shipment to third parties or destinations other than those originally shipped to by Clearfield, or any defects suffered during shipping where the Product has been re-packaged
3) Customer's installation or maintenance, excepting activities described in and performed in accordance with Clearfield documentation
4) Customer's improper or negligent use or application of Product

Other causes external to the Product, including but not limited to accidents, catastrophe, acts of God, government action, war, riot, strikes, civil commotion, sovereign conduct, or the acts or conduct of any person or persons not party to or associated with Clearfield.

Product Overview

Design Philosophy



The Clearfield design philosophy is to keep it 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
- 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.

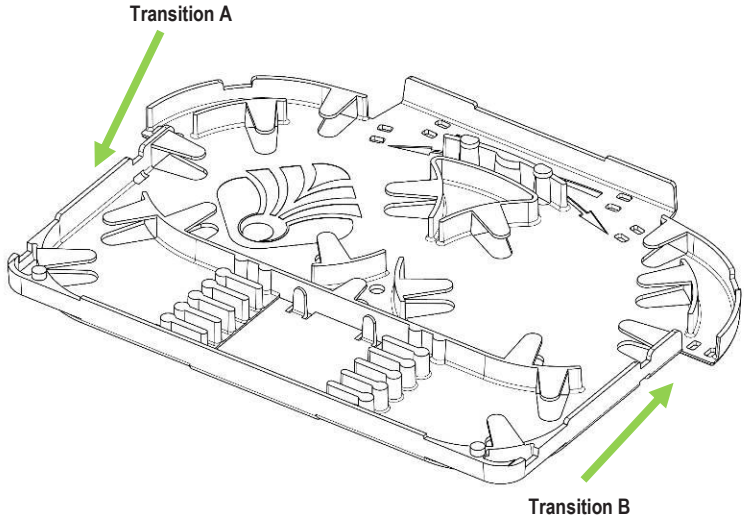
This method of designing to the core fundamentals of fiber management first and then designing from the inside out to meet the network environment need is a much different, yet effective, approach to traditional fiber management designs. This design philosophy is further implemented in a product philosophy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

Pre-configured Part Number

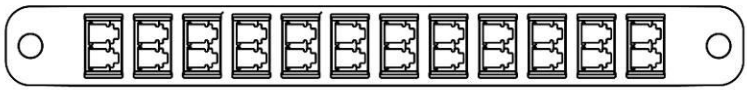
Part Number	Description
EDZ-024-F2F-SUB	FIELDSMART PATCH AND SPLICE CASSETTE, HIGH DENSITY, RIBBON, LOADED WITH 24 LC/UPC SM ADAPTERS, 1.5 METER

Cassette Fiber Diagram

Transition Breakout Locations



LC Adapter Color Code



Transition A – Port Identification

1 2	3 4	5 6	7 8	9 10	11 12
Fiber 1 - Blue	Fiber 1 - Green	Fiber 1 - Slate	Fiber 1 - Red	Fiber 1 - Yellow	Fiber 1 - Rose
Fiber 1 - Orange	Fiber 1 - Brown	Fiber 1 - White	Fiber 1 - Black	Fiber 1 - Violet	Fiber 1 - Aqua

Transition B – Port Identification

13 14	15 16	17 18	19 20	21 22	23 24
Fiber 2 - Blue	Fiber 2 - Green	Fiber 2 - Slate	Fiber 2 - Red	Fiber 2 - Yellow	Fiber 2 - Rose
Fiber 2 - Orange	Fiber 2 - Brown	Fiber 2 - White	Fiber 2 - Black	Fiber 2 - Violet	Fiber 2 - Aqua

Cassette Splicing Procedure

Opening Cassette

Step 1: Remove the cover by pressing the tabs on the sides and rear of the cassette, and lift it from the base (**Figure 1**).

Note: *The two (2) mounting screws for the cassette are enclosed in a small bag tapped to the side of the cassette. Remove the bag and set the screws aside for future use.*

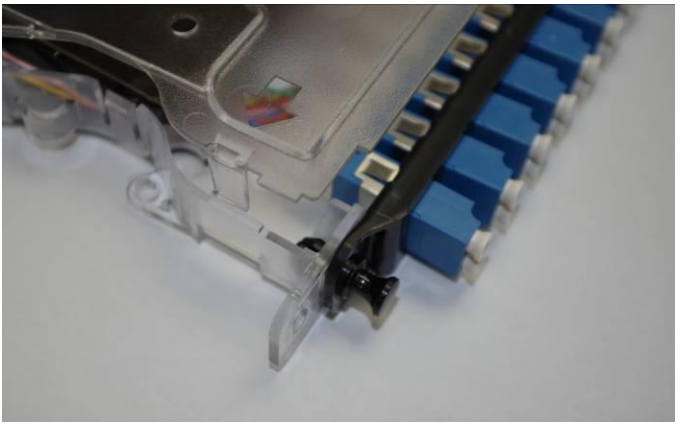


Figure 1

Step 2: Remove the splice tray cover by lifting up on the two tabs in the corners of the cover, and then by moving it slightly forward (**Figure 2**).

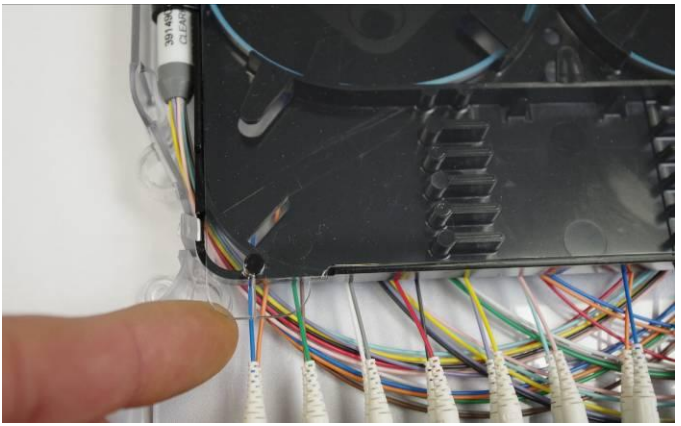


Figure 2

Cable Preparation

Step 1: Taking the incoming buffer tube from the fiber you want to splice into the cassette, slide the grommet down the buffer tube and make a mark the jacket 36" from the end of the tube (**Figure 1**).

Figure 1

Step 2: Using a buffer tube cutter, score the tube at the mark you created and pull of the jacket.

Note: Be careful not to nick or cut the 250um fiber under the jacket.

Step 3: Cut a ½" long strip of 1" wide grommet tape. Then, wrap the strip of grommet tape once around the cable at the end of the jacket. Trim any excess grommet tape.

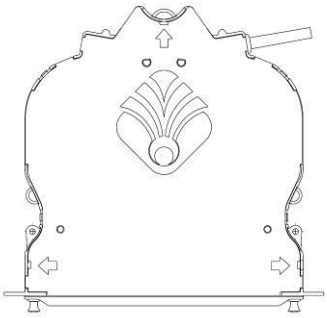
Step 4: Mark the first ribbon matrix with a small piece of tape.

Note: *This will provide easy identification when splicing.*

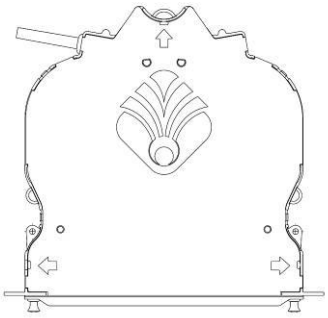
Determine Cable Entrance

Follow the fiber routing instructions based on cable entrance orientation.

Left Entrance



Right Entrance



Note: *Cable entrance is determined by viewing the cassette from the rear.*

Left Entrance Fiber Routing

Step 1: Take a 3/32" wide x 3" or 4" long zip tie and feed it through the tie down holes in the splice tray (**Figure 1**).

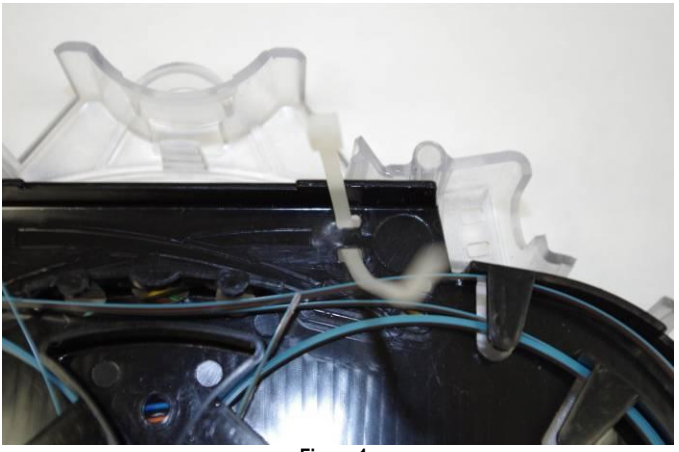


Figure 1

Step 2: Take the incoming buffer tuber, place the grommet wrap in the splice tray and secure the zip tie to fasten the cable to the splice tray (**Figure 2**).

Note: *Make sure the ribbon fibers are securied with the aqua fiber oriented on top.*

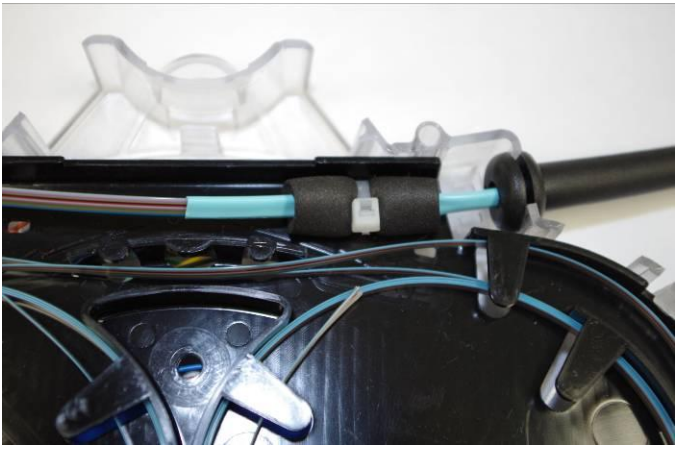


Figure 2

Step 3: Carefully, remove the ribbon pigtails from each slack storage loop (**Figure 3**). Then mark transition A on the left with a small piece of tape. This will be spliced to the other fiber marked with tape.

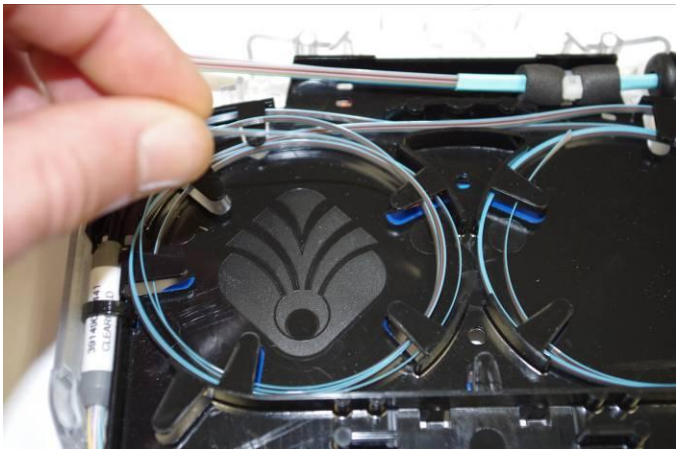


Figure 3

Step 4: Route the ribbon from transition **B** on the right of the cassette (viewed from the front) and preform a redirect S in the slack storage tray (**Figure 4**).

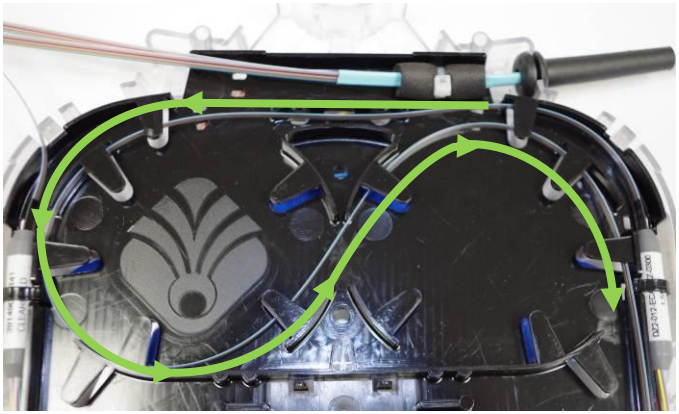


Figure 4

Step 5: Route the ribbon from transition **A** on the left (viewed from the front of the cassette) to the right slack storage loop (**Figure 5**).

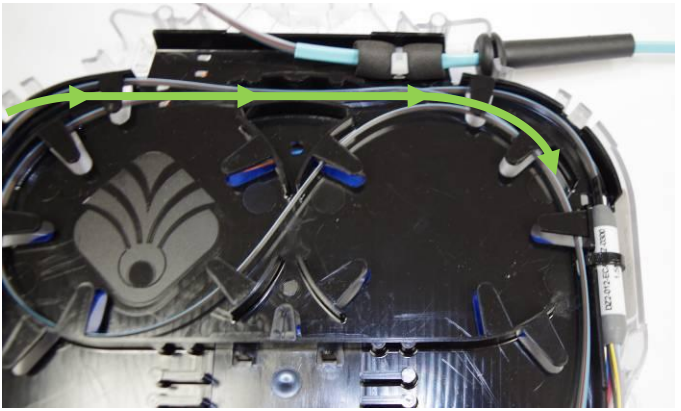


Figure 5

Step 6: Continue wrapping both ribbon pigtails together in the slack storage loop (**Figure 6**).

Figure 6

Step 7: Route both of the ribbons from the tied off cable into the left slack storage loop (**Figure 7**).

Figure 7

Right Entrance Fiber Routing

Step 1: Take a 3/32" wide x 3" or 4" long zip tie and feed it through the tie down holes in the splice tray (**Figure 1**).

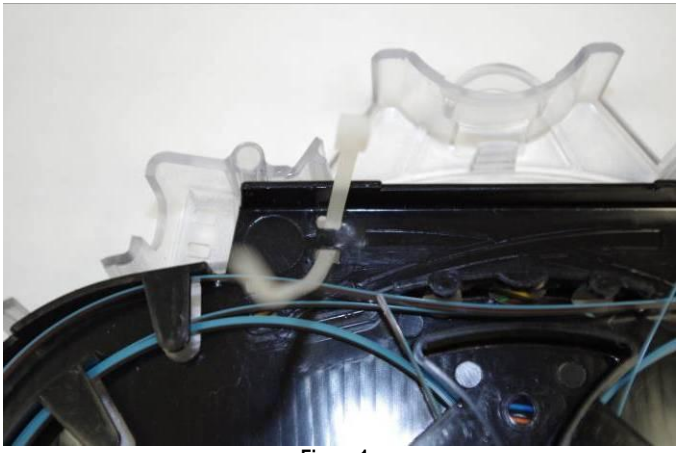


Figure 1

Step 2: Take the incoming buffer tuber, place the grommet wrap in the splice tray and secure the zip tie to fasten the cable to the splice tray (**Figure 2**).

Note: *Make sure the ribbon fibers are securied with the aqua fiber oriented on top.*

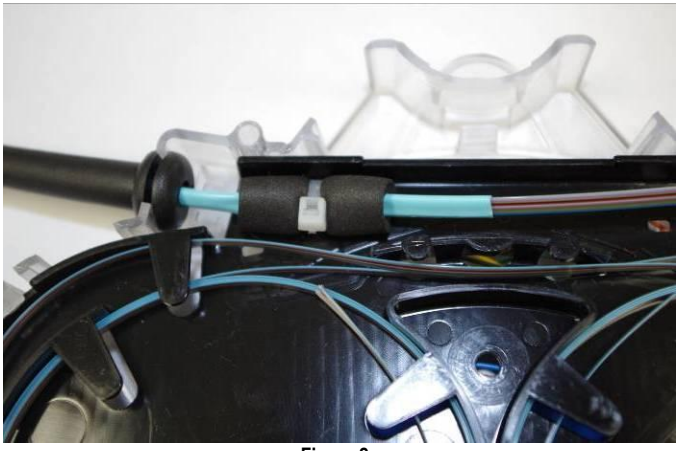


Figure 2

Step 3: Carefully, remove the ribbon pigtails from each slack storage loop (**Figure 3**). Then mark transition **A** on the left with a small piece of tape. This will be spliced to the other fiber marked with tape.

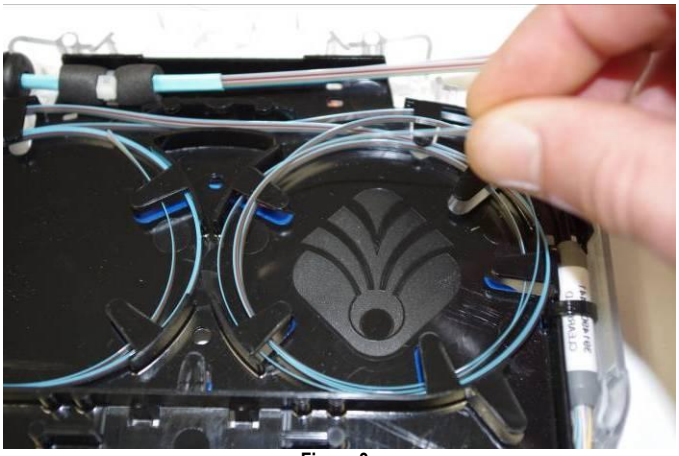


Figure 3

Step 4: Route the ribbon from transition **A** on the left of the cassette (viewed from the front) and preform a redirect S in the slack storage tray (**Figure 4**).

Figure 4

Step 5: Route the ribbon from transition **B** on the right (viewed from the front of the cassette) to the right slack storage loop (**Figure 5**).

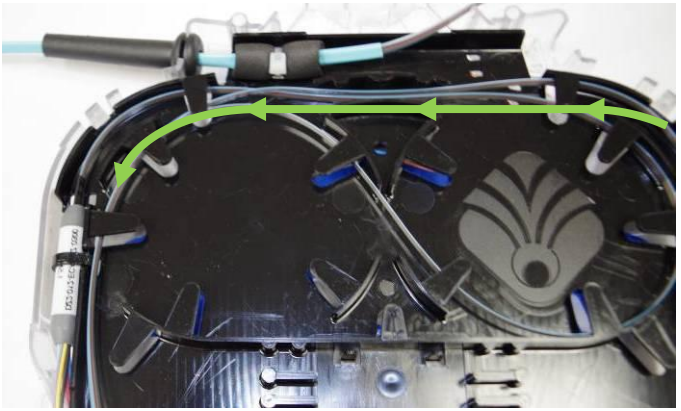


Figure 5

Step 6: Continue wrapping both ribbon pigtails together in the slack storage loop (**Figure 6**).

Figure 6

Step 7: Route both of the ribbons from the tied off cable into the left slack storage loop (**Figure 7**).

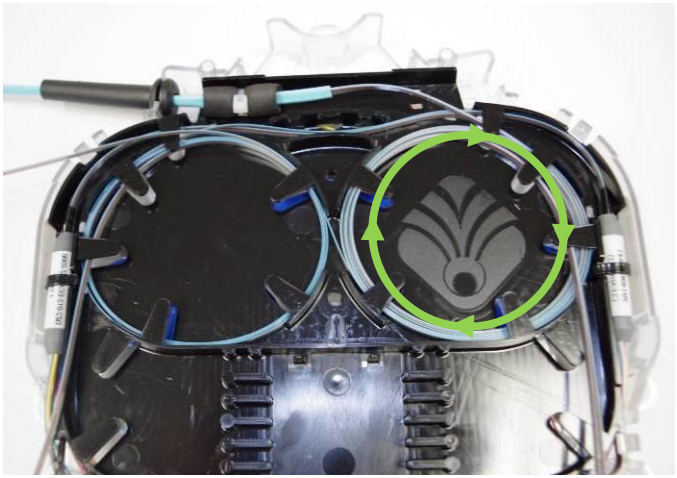


Figure 7

Ribbon Fiber Management Tool

Part Number	Description
016037	CLEARVIEW CLASSIC CASSETTE RIBBON HOLDER

Step 1: Insert the fiber management tool into the center of the slack storage tray (**Figure 1**).

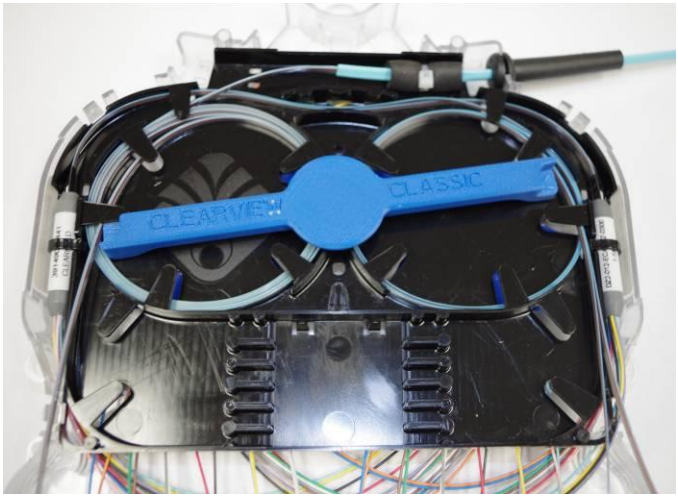


Figure 1

Step 2: Carefully route the tool under the slack loop tabs and the turn the tool clockwise to lock in place (**Figure 2**).

Note: *Make sure not to pinch the ribbon fibers when installing the tool.*

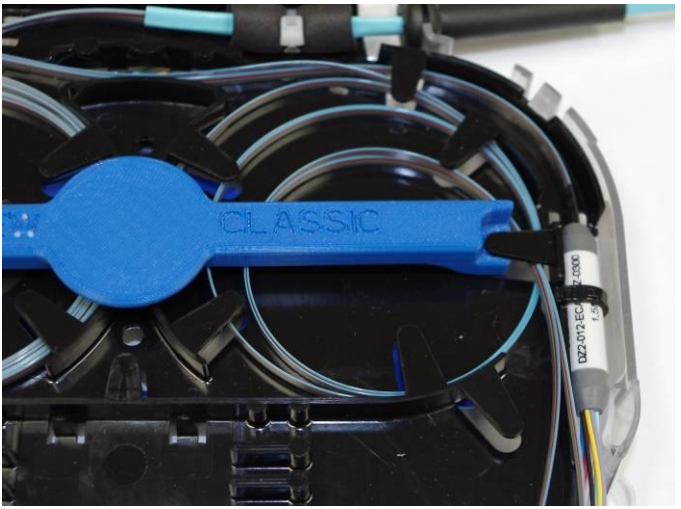


Figure 2

Splicing Recommendations

Step 1: Route the ribbon pigtails into the center of the splice tray (**Figure 1**). Then cut the ribbon to length.

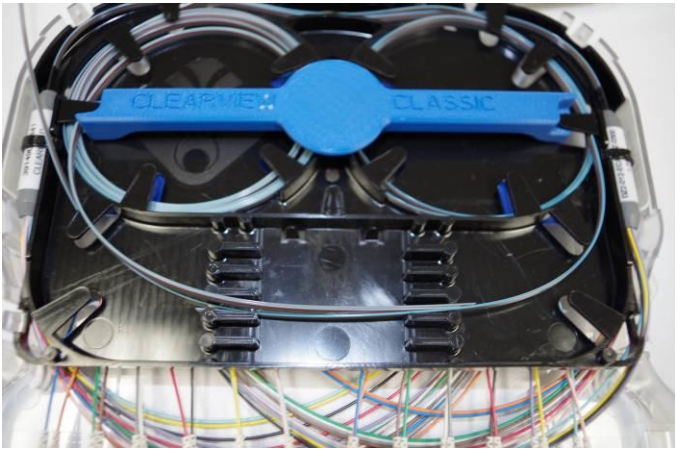


Figure 1

Step 2: Carefully, pull enough of the ribbon fiber from each slack storage tray to reach the mass fusion splice machine (**Figure 2**).

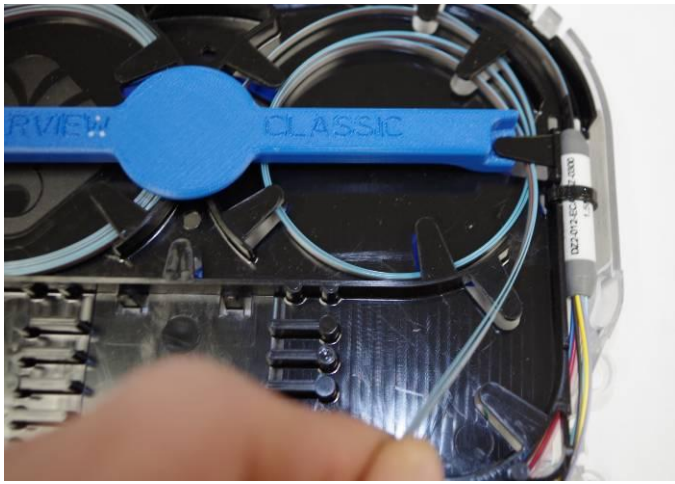


Figure 2

Step 3: **Reminder:** Slide a 40mm mass fusion splice sleeve with strenght member over each of the two ribbon pigails before preparing the fiber to splice (**Figure 3**).

Figure 3

Step 4: Match the marked ribbon with the marked ribbon and non-marked ribbon with the non-marked ribbon and splice following company practice or industry standard splicing procedures (**Figure 4**).

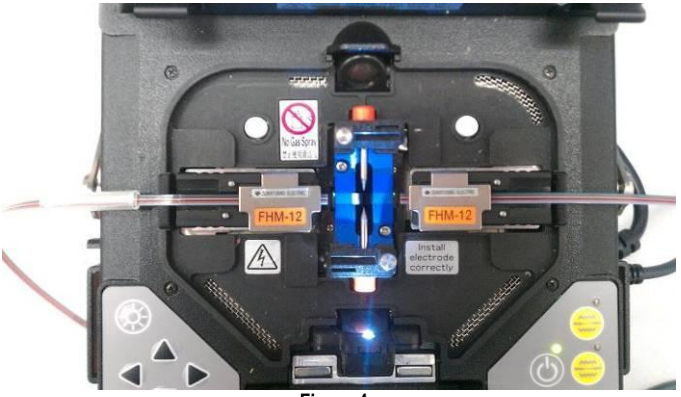


Figure 4

Step 5: Slide the protection splice sleeve over the completed splice, centering the sleeve equally over the splice. Place the splice into the center of the oven with the glass strength member facing down. Once the cycle has completed, carefully take the splice out of the oven to cool (**Figure 5**).

Note: *Allow the splice to adequately cool before handling.The splice will be very hot after it comes out of the oven and may cause burns.*

Figure 5

Step 6: Once both assemblies have been spliced, slide the fiber back into each slack storage loop. Then, place a small pea sized amount of silicone in the splice tray and nest the splice into the silicone to secure the splice sleeve to the splice tray (**Figure 6**).

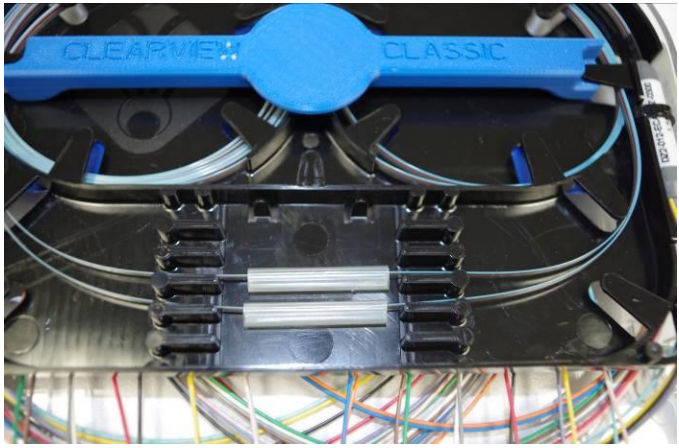


Figure 6

Step 7: Once the silicone dries, remove the ribbon fiber management tool from the cassette (**Figure 7**).

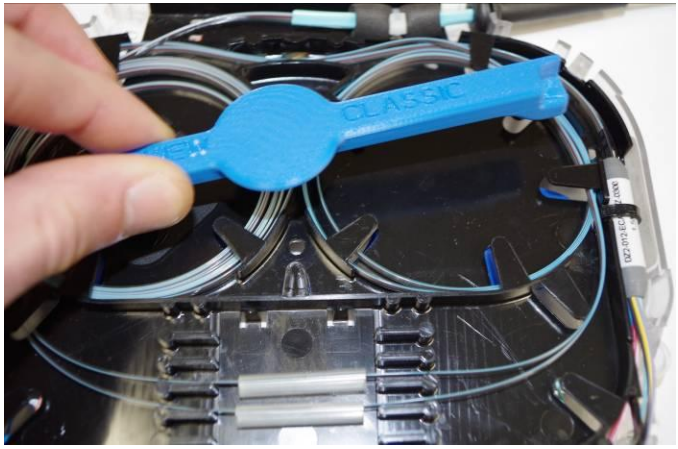


Figure 7

Cover Installation

Step 1: Slide the splice tray cover under the tabs and snap down on to the tabs (**Figure 1).**

Note: *Make sure that no 250um or ribbon is sticking out when installing the splice tray cover.*

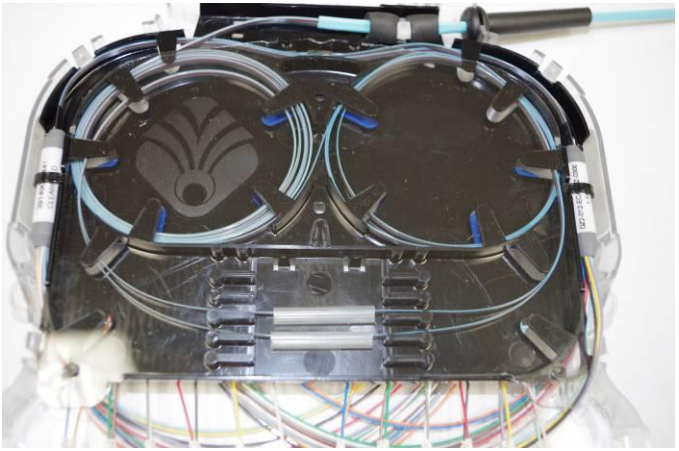


Figure 1

Step 2: Place the top cover on to the cassette until it clicks into place (**Figure 2**).

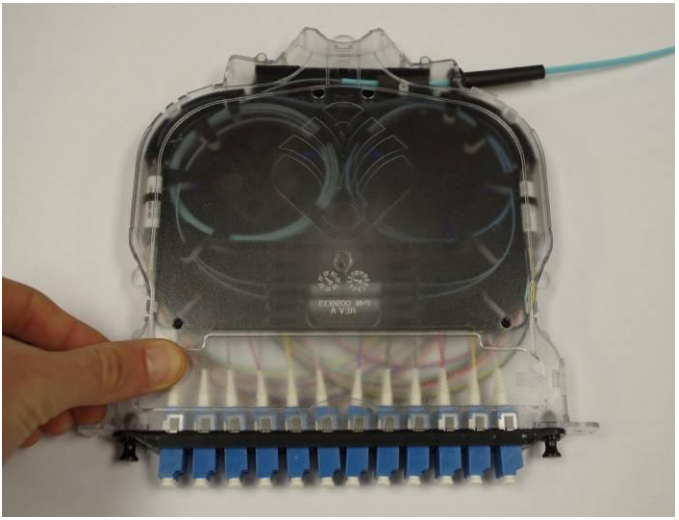


Figure 2

Mounting Screws Installation

Step 1: Remove the mounting screws from the bag and attach to the cassette tabs (**Figure 1**).

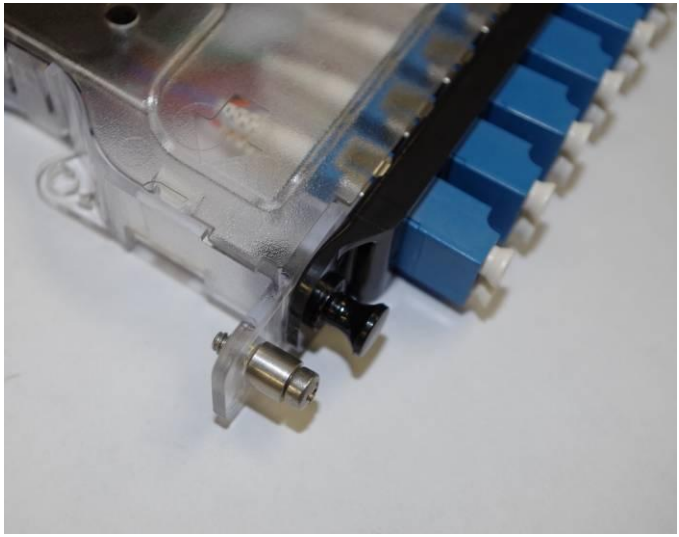


Figure 1