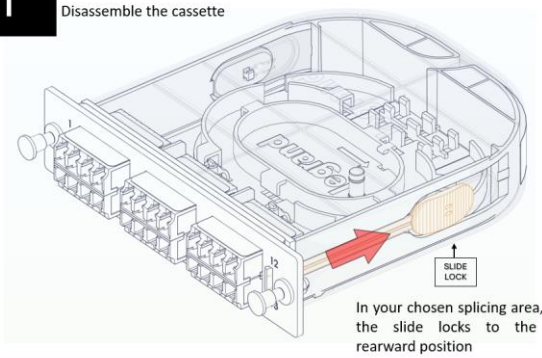
legrand®	WWW.LEGRAND.US	INSTRUCTION SHEET, M2 SINGLE FIBER SPLICE CASSETTE

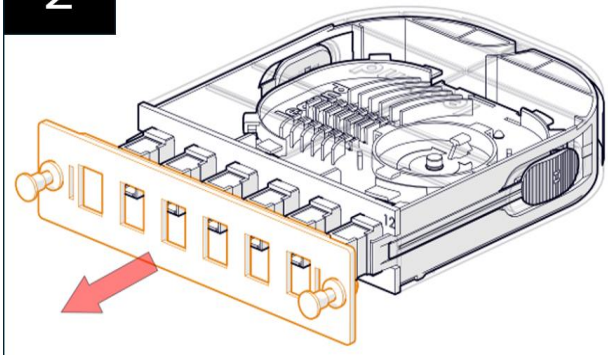
Splice cassette preparation

1 Disassemble the cassette

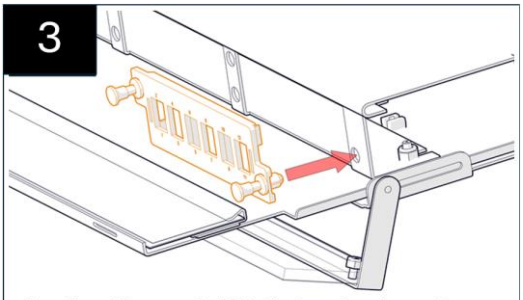


In your chosen splicing area, pull the slide locks to the full rearward position

2 Remove the front bezel

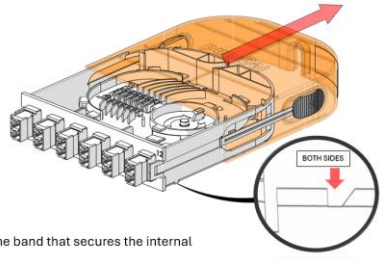


3



Bezel must be mounted into the target enclosure from the front to allow rear cassette insertion. Secure bezel in position with plunger.

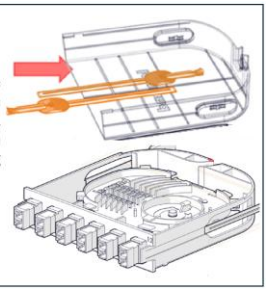
4 Pull outward on both sides of the cover front bottom corners; then slide the cover back, remove and set aside. Uncoil the internal harness from inside the cassette housing. Be careful not to lose the heat shrinks.



Set aside the band that secures the internal harness.

Tip

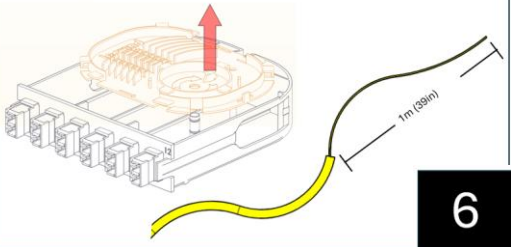
Utilize the splice cassette cover as a catch all for small parts that you remove during splicing.



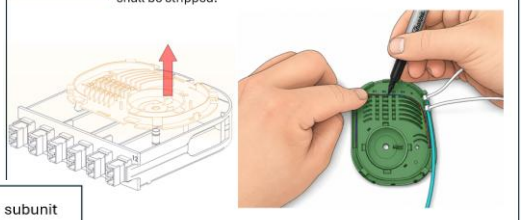
Prepare to splice

Place the splice cassette in a convenient location near the fusion splicer. Ensure that both the internal harness and the external cable fibers to be spliced are positioned to minimize cable handling and movement. Remove the retaining device and the tray from the cassette. Use either step 5a or 5b depending on the incoming fiber size.

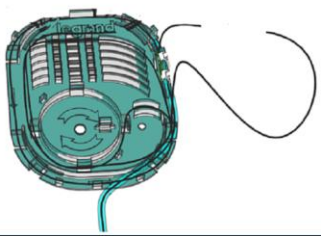
5a **900um Incoming Fiber preparation**
Strip 1 m (39 in) of the incoming fiber and inspect it to ensure no strands are damaged. Trim the aramid yarn and strength member, then add tape or heat shrink tubing at the breakout point.



5b **250um Incoming Fiber preparation**
Strip 14 in. of the outer jacket. Secure the cable jacket to the splice tray using zip ties. Measure and mark the fibers at 11.5 in., as shown. This mark indicates the point at which the 250 µm coating shall be stripped.



6 Prepare and cleave the external trunk, harness, or subunit fibers. Remove the internal harness fibers from the cassette, then prepare and cleave them as well. Cleave the fiber ends to 10 mm.



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71601969	**02**	**05892**	**7/09/2018**	**1 OF 2**	**RJG**	**1/3/2018**	**DMS**	**1/3/2018**	**FR**	**1/30/2018**

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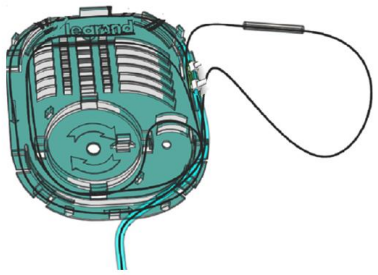
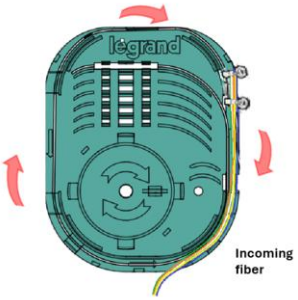


Splice the fibers, following the instructions associated with your specific fusion splicer, and then shrink the protective sleeve over the completed splice.

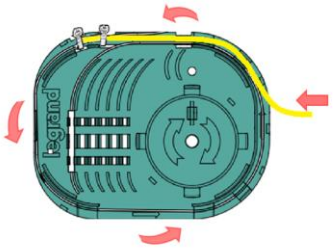
8a



For the 900 µm coil, place the splice sleeves in the holders and route the incoming fiber from the splice clockwise around the outer channel, and then secure it with a zip tie. Ensure the fiber pairs are routed through the appropriate guide slots. Upon completion, use a VFL to check for poor splices.

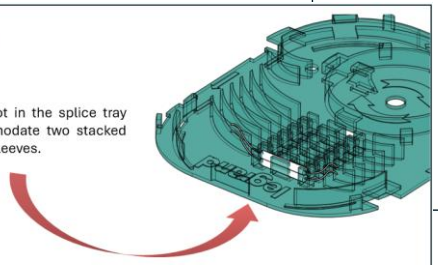
8b

For 250um From the jacket cable route around the outer channel and place the splice sleeves in the holders. 250 µm fiber is more susceptible to breakage and should be handled carefully. A breakout kit is not required for this application, as the fiber tubes are routed directly into the cassette for protection.



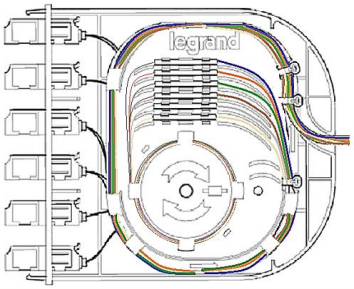
Tip

Tip: Each slot in the splice tray can accommodate two stacked heat shrink sleeves.



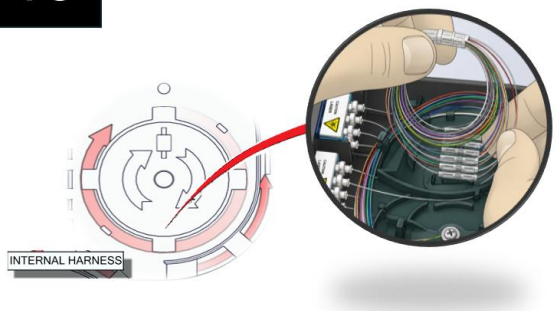
9

Reinstall the tray using the retained device (screw or rubber band), ensuring the fibers are not pinched. Route the external cable through the rear slot.



10

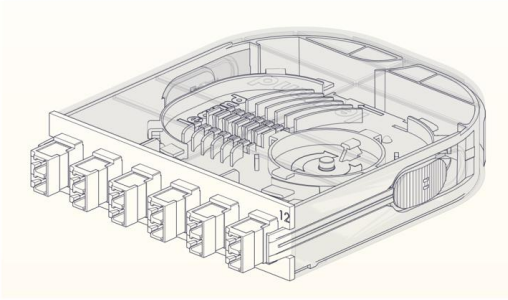
Route the internal fiber clockwise following the arrows on the slack tray.



Tip: Use the plastic swirl piece removed earlier to wrap around strands and keep the loop in place.

11

Slowly slide the cover on while ensuring no fibers are pinched.



Adjust any high fibers if needed, and snap the cover closed once everything is clear.

For a 48F splice cassette repeat steps 5-10 with a second splice tray.

Mounting

Mate the completed cassette from the rear of the enclosure to the correct bezel mounted in the enclosure front. Once the cassette is snapped into place, push the slide locks to the full forward position. Installation is now complete.

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