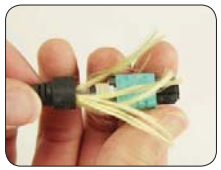
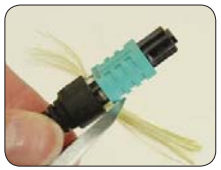
CONNECTOR ASSEMBLY FOR…

RIBBONIZED FIBER

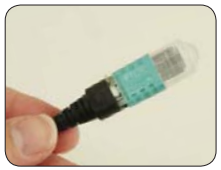
1: Slide the spring unit and connector together. See the table below for proper housing alignment.



2: Divide the aramid yarn on both sides of the spring unit. Screw the boot 3/4 of the way onto the spring unit.



3: Trim the excess aramid yarn using the kevlar scissors.

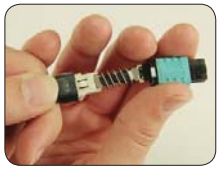


4: Screw the boot unit on completely. Place the dust cap back onto the connector. Installation is complete.

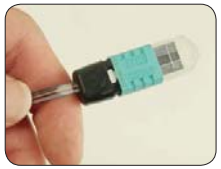
RIBBON FIBER

1: Slide the boot and the spring unit together.

2: Insert the connector into the boot and spring unit.



3: Remove the dust cap. See table below for proper housing alignment.



4: Place the dust cap back onto connector. Installation is complete.

PROPER HOUSING ASSEMBLY FOR METHODS A, B AND C

Method	End A Housing Assembly	End B Housing Assembly
A and C** (Key Up-Key Down)	Align the white marks on the connector and the housing. Push until a click is heard.	Align the white marks on the connector and the housing. Push until a click is heard.
B (Key Up-Key Up)	Align the white marks on the connector and the housing. Push until a click is heard.	Make sure that the white mark on the spring unit and the white mark on the housing are on opposite sides. Push until a click is heard.

**For Method C, ribbonizing should be done with a pair flip.

ORDERING INFORMATION AND ADDITIONAL HELP

AFL NO.*	CONNECTOR TYPE	FIBER TYPE	POLISH	CABLE SIZE		HOUSING COLOR
				ROUND	FLAT	
FUSEMPO-SMA-3-M-6	MPO, Male (guide pins)	Single-mode (OS1)	APC	3.0 mm	250 µm	Green
FUSEMPO-SMA-3-F-6	MPO, Female (No Guide Pins)	Single-mode (OS1)	APC	3.0 mm	250 µm	Green
FUSEMPO-MM6-3-M-6	MPO, Male (guide pins)	Multimode 62.5 µm (OM 1)	PC	3.0 mm	250 µm	Beige
FUSEMPO-MM6-3-F-6	MPO, Female (no guide pins)	Multimode 62.5 µm (OM 1)	PC	3.0 mm	250 µm	Beige
FUSEMPO-MM5-3-M-6	MPO, Male (guide pins)	Multimode 50 µm (OM 2)	PC	3.0 mm	250 µm	Black
FUSEMPO-MM5-3-F-6	MPO, Female (no guide pins)	Multimode 50 µm (OM 2)	PC	3.0 mm	250 µm	Black
FUSEMPO-MM5L-3-M-6	MPO, Male (guide pins)	Multimode 50 µm 10Gig (OM 3/ OM 4)	PC	3.0 mm	250 µm	Aqua
FUSEMPO-MM5L-3-F-6	MPO, Female (no guide pins)	Multimode 50 µm 10Gig (OM 3/ OM 4)	PC	3.0 mm	250 µm	Aqua

*Pack of 6 pieces

www.AFLglobal.com/go/MPOcordage or www.AFLglobal.com/go/MPOribbon

P/N CS011740
Rev. 0 01.21.13

FUSECONNECT MPO RIBBON AND 3 MM CORDAGE TERMINATION AND ASSEMBLY INSTRUCTIONS

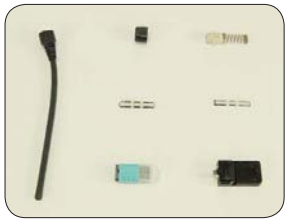
This document provides termination instructions for FuseConnect MPO Connectors (ribbon and cordage). Read these instructions carefully before proceeding.

WARNING: Always wear eye protection when handling optical fibers. Dispose of any cut or cleaved ends properly. Do not touch the cleaver wheel with bare hands.

MATERIALS

FuseConnect MPO Tool Kit: 3 mm Cord Clamp, Marker, Blue Tool Case, Cord Splitter Tool, Ribbonizing Tool, FuseConnect MPO Assembly Tool, Lint-free Wipes, Ribbonizing Glue, Fiber Preparation Fluid and Kelvar Scissors

60R12 Splicer Kit: Ribbon Fusion Splicer, Cleaver (CT-30), Fiber Stripper (HJS-02) and Ribbon Fiber Holders



Connector Kit: Cordage Tube and Boot, Ribbon Boot, Spring Unit, Mechanical Clamp Body (Raised Edge), Mechanical Clamp Cover (White Tip), Housing Assembly and Connector Holder

SPLICER MODE AND ARC CALIBRATION

It is necessary to use the correct splicer mode for each connector type being spliced. For the best splice results, an arc calibration is required each time the splicer is turned on. Please see the images below in order to execute each step correctly.

1: Select the correct splicer mode.

2: AFL recommends MM12 for multimode fiber and SM12 for single-mode fiber.

3: Run an arc calibration with the fiber type that you will be splicing to the connector.

4: Continue the arc calibration until both "Power" and "Position" read "Good."

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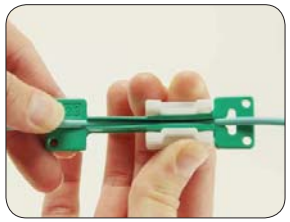
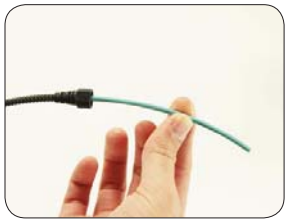
Rev. 0 01.21.13

RIBBONIZING FOR 3 MM CORDAGE

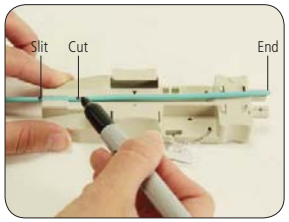
If you are using pre-ribbonized fiber, skip to Fiber Termination on next page of this document.



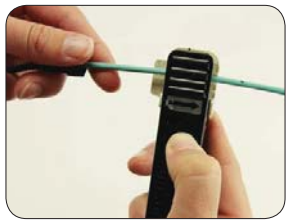
1: Clamp the jacket about 16 inches from the end using the 3 mm cord clamp. This will prevent the fibers from pistoning.



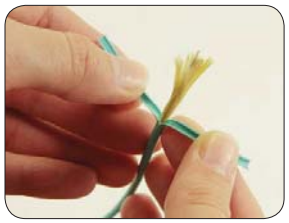
2: Insert the cordage through the cord tube and boot.



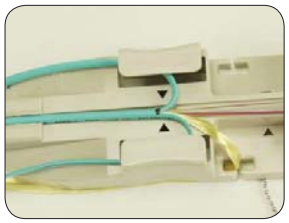
3: Place the cordage into the ribbonizing tool. Make two marks on the jacket where the "Slit Jacket" and "Cut Jacket" arrows are pointing.



4: Split the cable from the "Slit Jacket" mark to the end with the cord splitter tool.

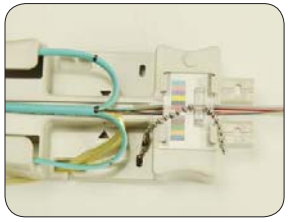


5: Peel the jacket back to the "Slit Jacket" mark to expose the 250 µm fibers and aramid yarn.



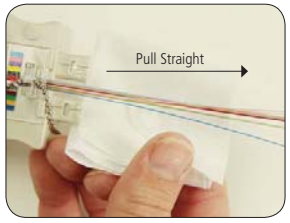
6: Secure the cordage to the ribbonizing tool with the "Slit Jacket" mark at the first set of arrows. Set aside the aramid yarn on the side of the tool.

7: Insert the fibers through the slit in the order indicated on the cover.

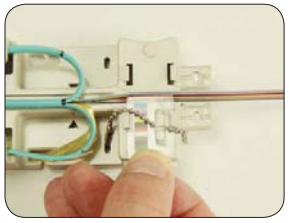


8: Push the cord forward until the "Slit Jacket" mark is at the second set of arrows.

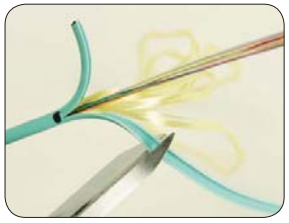
9: Clean the fibers with a lint-free cloth and fiber preparation fluid.



10: Place a large drop of ribbonizing glue onto a lint-free cloth. Apply to the fibers with a forward motion. Pull straight so fibers stay in order.

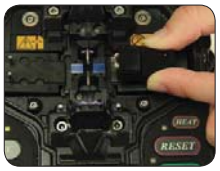


11: After allowing the glue to dry for at least one minute, open the cover. Remove the ribbonized fibers from the ribbonizing tool.



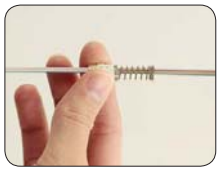
12: Cut the jacket at the "Cut Jacket" mark. DO NOT CUT THE ARAMID YARN! See next page for fiber termination.

FIBER TERMINATION



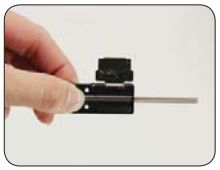
1: Load the connector holder onto the right side of the splicer. Close the cover.

2: If you are using ribbon fiber, insert the ribbon boot now. If you are using ribbonized fiber skip this step.



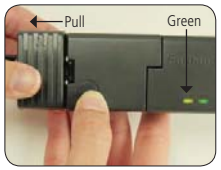
3: Carefully insert spring unit onto the fiber.

4: Mark the ribbon at 35 mm using the template on the packaging.

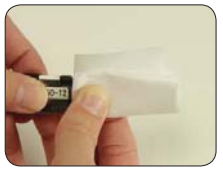


5: Set the ribbon onto the fiber holder with aqua fiber closest to the hinge.

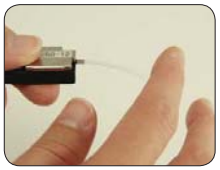
6: Place the fiber holder on the hot jacket stripper with no gap between the two.



7: Close the lid. When the light turns green, strip the fiber.



8: Clean the stripped fiber with a lint free cloth and fiber preparation fluid.

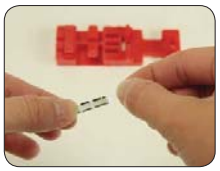


9: Make sure the fibers are dry and separated. Flick the fibers to ensure their integrity.

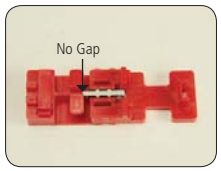
10: Place the fiber holder into cleaver. The fiber holder should be flush and flat in the cleaver. Cleave the fiber.

11: Load the fiber holder onto the splicer and close the cover.

12: Splice on the FuseConnect MPO.

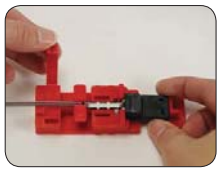


13: Peel off the protection film of the mechanical clamp body (raised edges).

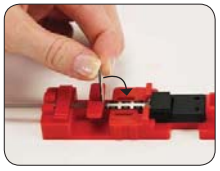


14: Set the mechanical clamp body on assembly tool and make sure there is no gap.

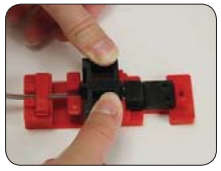
15: Open the fiber holder clamp. Keeping tension on the splice, remove from the splicer with connector holder.



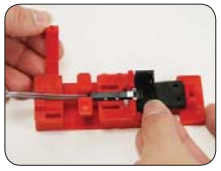
16: Set onto the assembly tool and close the hinge while keeping tension on the fiber.



17: Peel off the protection film from the mechanical clamp cover (white tip). Set in hinge segment of the assembly tool.



18: Shut the mechanical clamp cover by using the mechanical sleeve press.



19: Release the hinge of the assembly tool and open cover of the connector holder.

20: Remove the connector from the assembly tool by pushing the arrow tabs apart. See next page for connector assembly.