

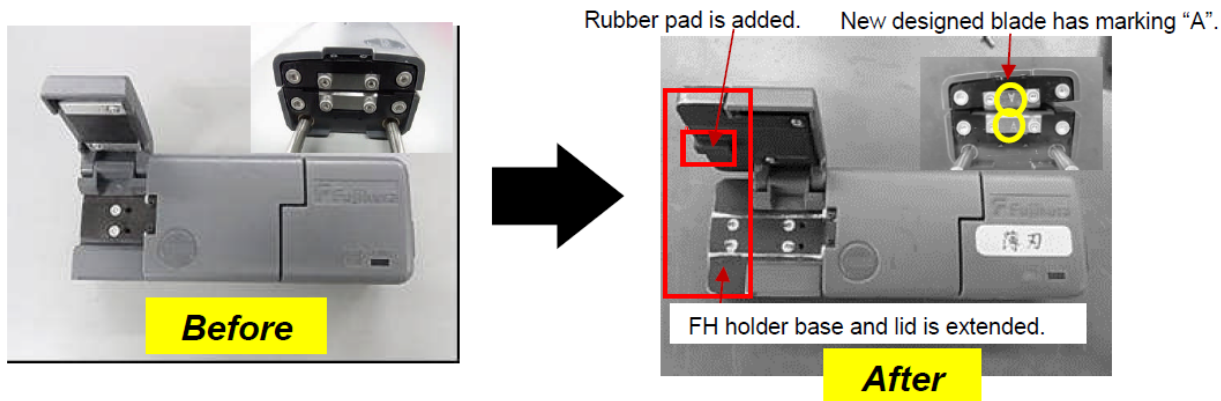
Terminating FUSEConnect[®] MPO with Spider Web Ribbon[®] on 50R, 60R and 70R

Notes on splicing FUSEConnect MPO to SpiderWeb Ribbon (SWR[®])

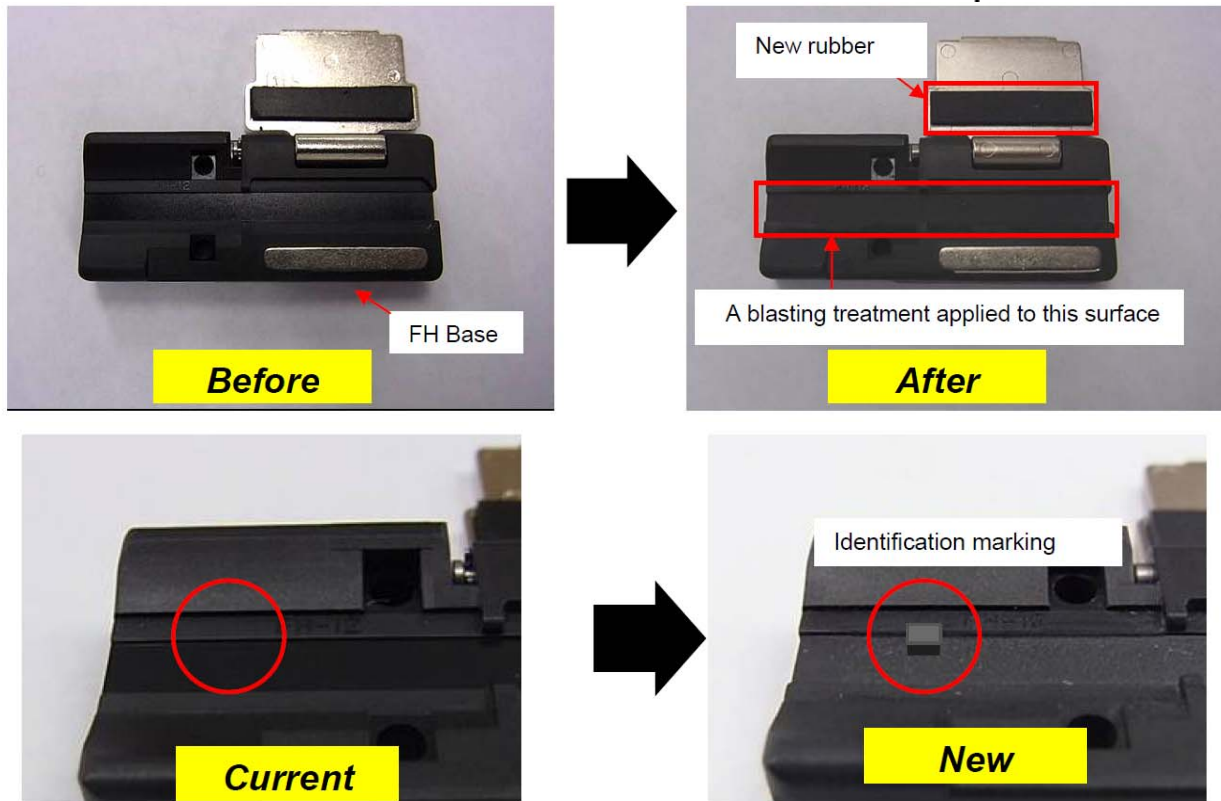
This applications note is to discuss the use of SpiderWeb Ribbon (SWR) when terminating a FUSEConnect MPO connector. The technology of SWR allows the user to cut back on installation time by eliminating the need for lengthy ribbonization processes. The ribbonization process is made even faster with the updated Hot Jacket Stripper (HJS-02) and updated ribbon fiber holders utilized with the 50R, 60R, and 70R style Fujikura splicers because they eliminate the need to ribbonize using glue. This makes a simpler, faster, and cleaner process all around. This also makes the process for terminating a field installable FUSEConnect MPO connector onto unribbonized fiber even simpler.

Splicer Technology Updates for SWR Compatibility

1. The HJS-02 was modified in March 2014 to improve the stripping quality for SWR.
 - a. The HJS-02 fiber holder base and lid are extended, and rubber pad has been added to help firmly clamp any kind of ribbon fibers. Pictures below help to depict the changes.
 - b. The blade shape on both was changed to improve stripping performance. An "A" marking has been added to the blade for identification. Pictures below help to depict the changes.
 - c. HJS-02 purchased after the middle of March 2014 shipped with these improvements.



2. New fiber holders. Updated fiber holders to improve clamping performance for any kind of ribbon fibers can be distinguished. If you do not use the updated FH-50-12 fiber holders, SWR may slip from the grips during the stripping process.
 - a. The bottom fiber slot in the fiber holder base has rougher surface by blasting treatment. Pictures below help to depict the changes.
 - b. The rubber pad on the lid is now softer, which will not allow slipping and give firmer grip. Pictures below help to depict the changes.
 - c. New FH-50-12 holders have a mark on the fiber holder base. Pictures below to help depict the difference.
 - d. FH-50-12 purchased after June 2015 shipped in the updated style.



How to use these upgrades to splice FUSEConnect MPO onto SWR

Table 1 shows the Fujikura splicers applicable to terminating FUSEConnect MPO.

Fujikura Splicer Model	Notes
FSM-50R	Upgrade HJS-02, use new FH-50-12 fiber holders
FSM-60R	Upgrade HJS-02, use new FH-50-12 fiber holders
FSM-70R shipped before March 2014	Upgrade HJS-02, use new FH-50-12 fiber holders
FSM-70R shipped after March 2014	Includes latest HJS-02 and FH-50-12 fiber holders

All models above can be used to terminate FUSEConnect MPO on SWR with or without the upgrades.

Without Upgrades

If these upgrades are not made on the Fujikura ribbon splicing machines then follow the instructions below to terminate FUSEConnect MPO to 3mm cordage units of 12-fiber SWR :

1. Follow the normal instructions (instructions attached for reference) of "Ribbonizing for 3mm Cordage" for FUSEConnect MPO through step 5.
2. Align the SWR matrix using your fingers to make certain the fibers lay in the proper array.
3. Using a pea size amount of ribbonizing glue continue at step 9 of the instructions.
4. Once "Ribbonizing for 3mm Cordage" is complete terminate the connector as directed in the "Fiber Termination" section.



With Upgrades

If the above upgrades are made to the Fujikura ribbon splicing machines the follow the instructions below to terminate FUSEConnect MPO to 3mm cordage units of 12-F SWR *without the use of ribbonizing glue*.

1. Follow the normal instructions of “Ribbonizing for 3mm Cordage” for FUSEConnect MPO through step 5.
2. Align the SWR matrix using your fingers to make certain the fibers lay in the proper array.
3. Skip to the “Fiber Termination” section of the instruction sheets and proceed to terminate the connector as directed.

Purchasing Information

To upgrade any ribbon splicer to updated, SWR-compatible equipment refer to Table 2 below.

AFL Part No.	AFL Description
S010340	Hot Jacket Stripper (HJS-02)
S013828	12F Ribbon Fiber Holders (FH-50-12)