

# Field Installable Splice-On MPO Installation Procedure For Ribbon Fiber



## Safety Reminders

This product has been designed and manufactured to assure personal safety. Improper operation can result in bodily injury and serious damage to this product. Please read and observe all warning instructions given in this installation procedure.

- ★ **Wear safety glasses** before handling optical fiber to protect the eyes. Small pieces of glass fibers are very sharp and might get into the eyes and injure them.
- ★ **Never look into** the end of a connector or an optical fiber which may have a laser coupled to it. Laser light can damage your eyes. Please note that some laser light is not visible.
- ★ In the case of working at heights, be careful not to drop any tools.

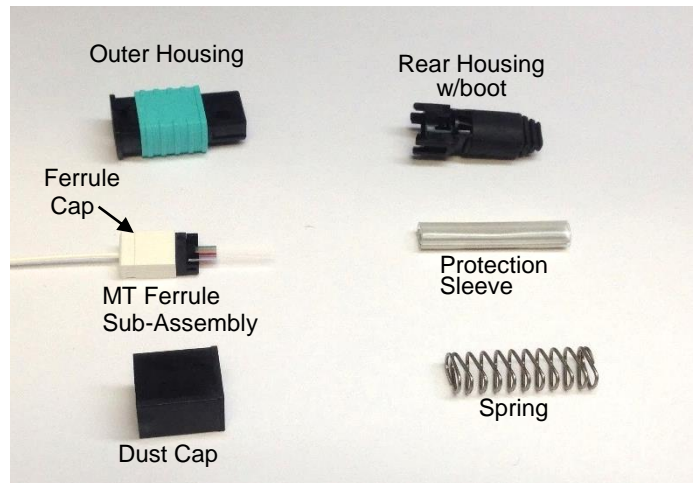


## Precautions

1. Improper assembly will result in a loss of performance. **Please read instructions** given in this installation procedure.
2. The product is sensitive to dirt or dust. Do not remove the MT ferrule sub-assembly from its package **until it is to be used**.
3. The connector loss will be influenced by the quality of the cleave. Use a cleaver with a clean, sharp blade.

## Connector Parts

- Outer housing
- MT ferrule sub-assembly with ferrule cap
- Dust Cap
- Rear housing with boot
- Splice protection sleeve
- Spring



The following tools / supplies are not provided.

- Mass fusion splicer
- Thermal matrix remover
- Fiber cleaver
- Fiber holders
- Alcohol and lint free wipes

## Tool Recommendations

Mass Fusion Splicer:  
Sumitomo Q101-M12



Matrix Remover:  
Sumitomo JR-6



Fiber Cleaver:  
Sumitomo FC-6RM-C



Fiber Holders:  
Sumitomo FHM-12 &  
FHM-12-MPO-MTL  
or FHM-12-MPO-PLS



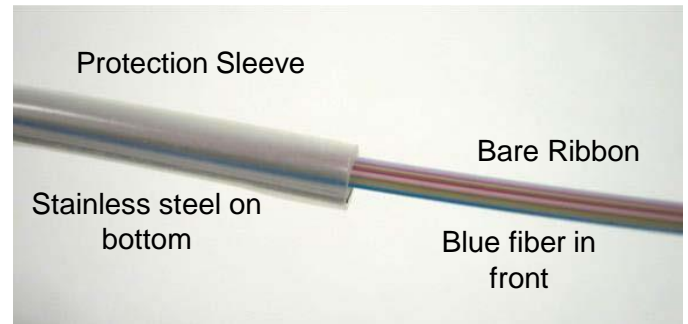
Nexans Data Center Solutions  
Phone: 919-617-6500

[nds.techsupport@nexans.com](mailto:nds.techsupport@nexans.com)  
[ncssupport.canada@nexans.com](mailto:ncssupport.canada@nexans.com)

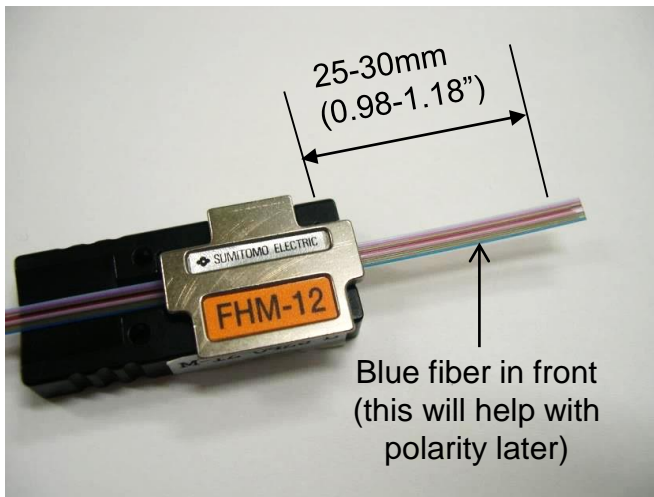
**【1】** Insert parts onto 12 fiber ribbon in order shown below



**【2】** Ensure correct orientation of protection sleeve



**【3】** Set ribbon in the holder



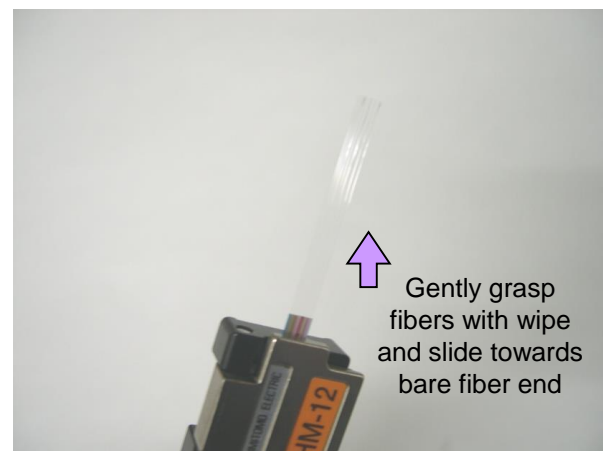
**【4】** Place holder in matrix remover



**【5】** Remove matrix



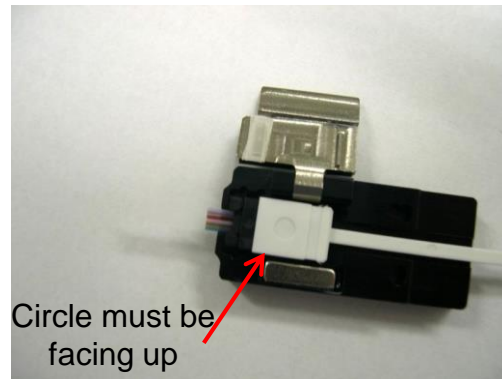
**【6】** Clean fibers with an alcohol moistened lint free wipe



**【7】** Load fiber into cleaver and cleave



**【8】** Load MT ferrule stub into holder with circle up



**【9】** Remove holder from cleaver and load into left side of splicer

**【10】** Load ferrule stub into right side of splicer



**【11】** Check alignment



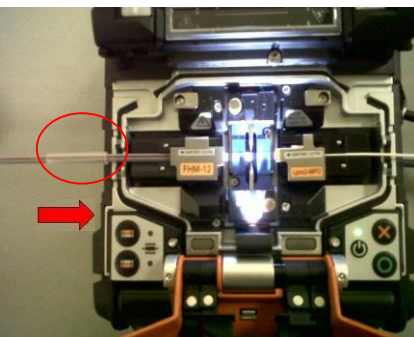
**【12】** Splice



**【13】** Check Results



**【14】** Slide protection sleeve towards holder

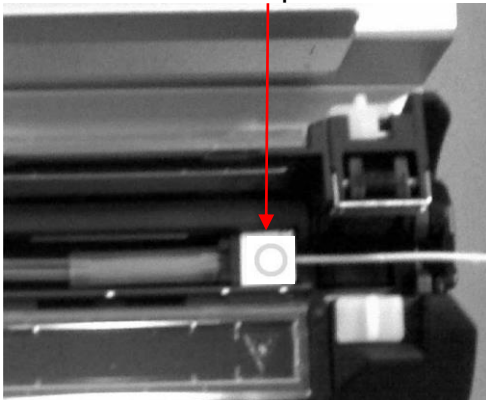


**【15】** Remove connector and ribbon from holders and slide sleeve over splice





**【16】** Place the MT stub in heater with circle up



**【17】** Heat the sleeve



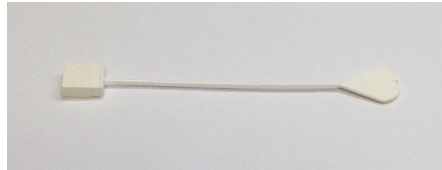
**【18】** Cool the sleeve



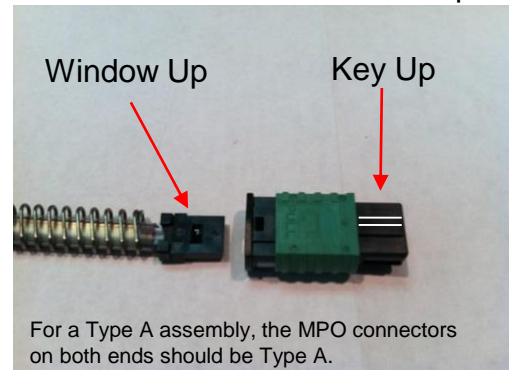
**【19】** Push rear housing and spring towards ferrule



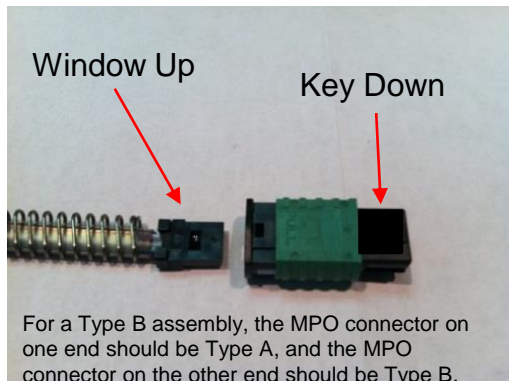
**【20】** Remove Ferrule Cap



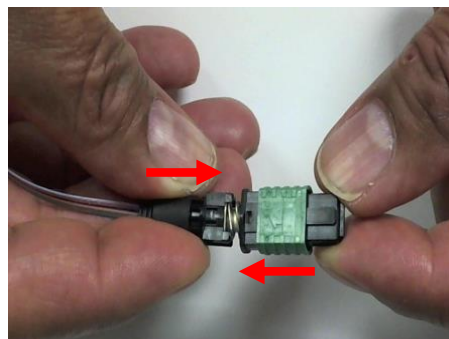
**【21a】** For Type A connectors, align the housing with the key up, to the ferrule with the window up



**【21b】** For Type B connectors, align the housing with the key down to the ferrule with the window up



**【22】** Slide the outer housing over the ferrule, and press the rear and outer housing together



**【23】** Install the dust cap. Please note the connector should be inspected / cleaned before mating with a transceiver or another MPO/MTP.

