



Applications Engineering Notes

Document Title	Instructions for Mating MT Ferrules When Using a Spring Clamp Device
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THE USE OF SAFETY GLASSES FOR EYE PROTECTION IS RECOMMENDED

1.0 Document Purpose

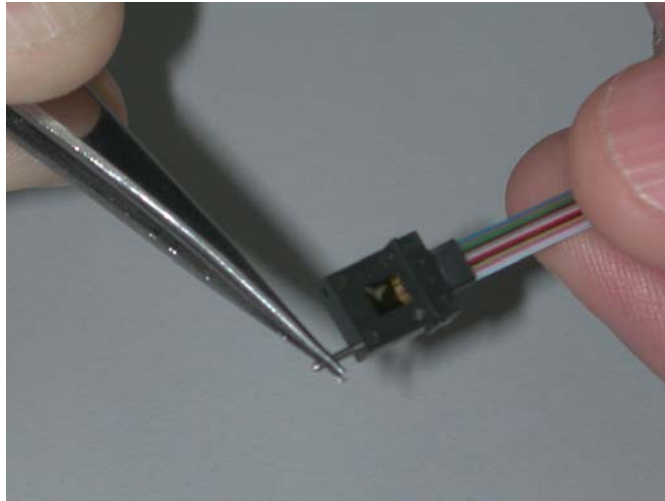
This document provides instructions for mating MT ferrules by use of a spring clamp device and individual guide pins.

2.0 Required Equipment and Materials

- US Conec spring clamp installation tool (P/N MTA-001)
- Proper spring clamp for ferrules being mated
 - For 4 and 8 fiber ferrules use P/N MTA-004
 - For 12 fiber ferrules use P/N MTA-014
- Proper individual guidepins for ferrules being mated
 - For multimode applications use P/N MTA-002-MMG
 - For single-mode applications use P/N MTA-002-SMG
 - For MT Elite[®] applications use P/N MTA-002-SMGE
- Plastic tweezers

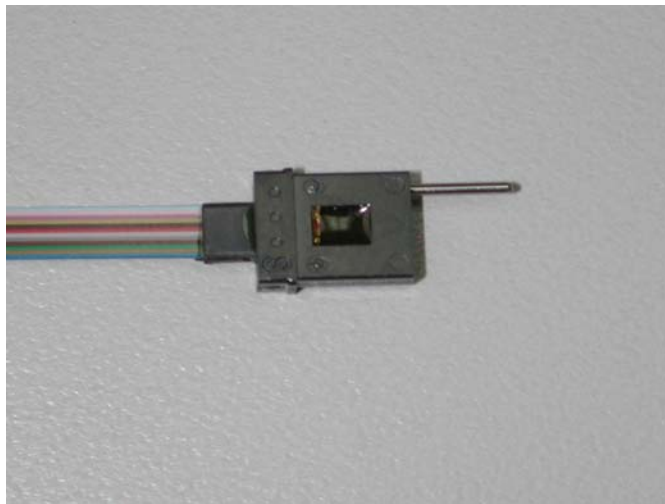
3.0 Procedure

- 3.1 Install the guidepins into one of the ferrules to be mated.
 - 3.1.1 Using the plastic tweezers, carefully align a guidepin with the guidepin hole in the ferrule endface.



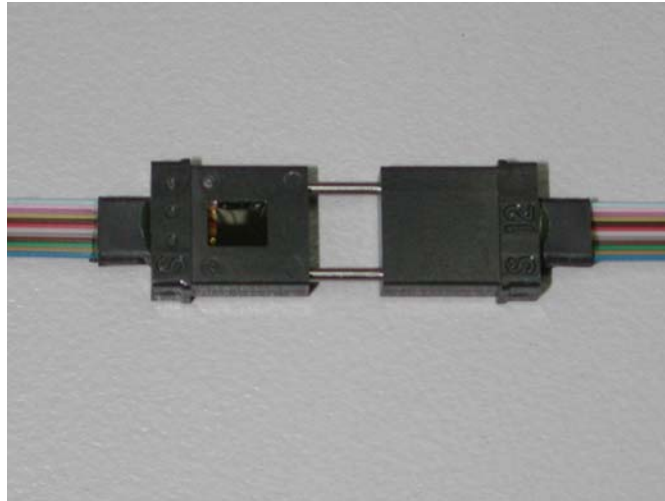
3.1.1

- 3.1.2 Insert the pin into the hole until approximately 5 millimeters of the pin is protruding from the ferrule endface.



3.1.2

- 3.1.3 Repeat steps 3.1.1-3.1.2 for the other guide pin.
- 3.2 Mate the ferrules.
- 3.2.1 Align the guidepins protruding from the first ferrule with the guidepin holes of the second ferrule.

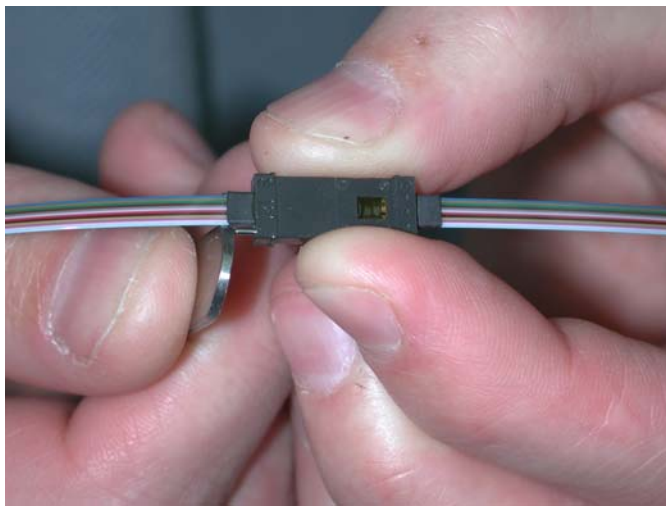


3.2.1

NOTE: To maintain polarity, make certain the #1 fibers are aligned. The #1 fiber is typically the dark blue fiber in a ribbon matrix. When properly aligned, the ferrule windows will be positioned with one window up and the other down.

3.2.2 Push the ferrules together until the endfaces meet.

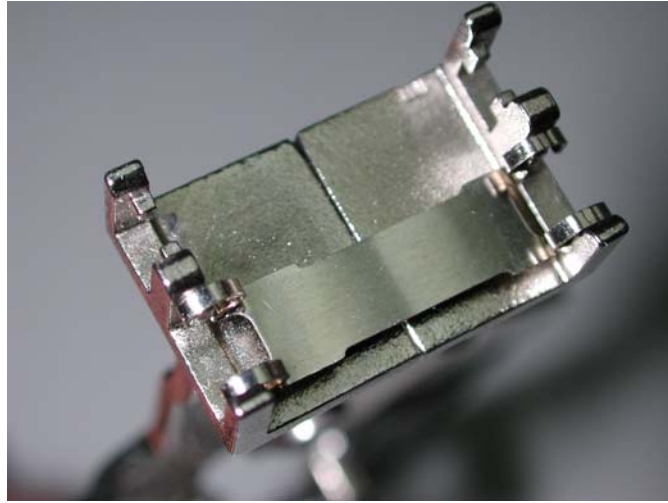
NOTE: If one or both of the guidepins push out of the back of the ferrule, push them back in with the tweezers.



NOTE

3.3 Install the ferrules into the spring clamp.

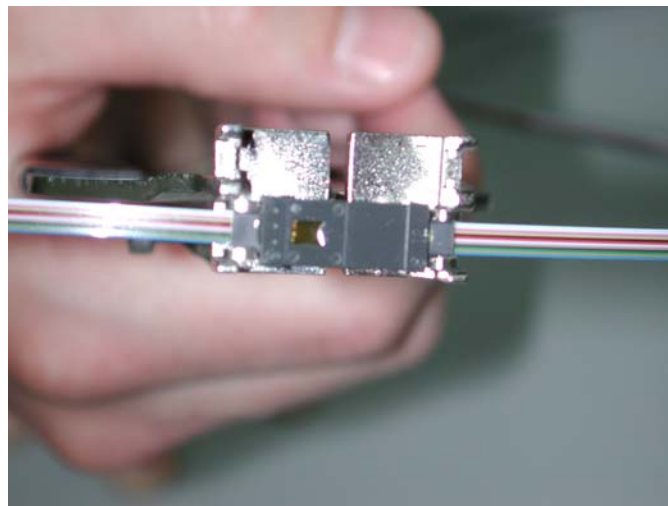
3.3.1 Place the spring clamp into the installation tool.



3.3.1

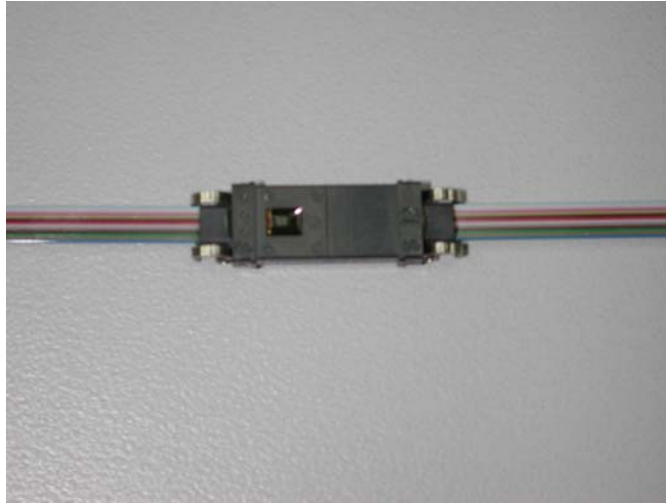
3.3.2 Squeeze the handles of the tool together to open the clamp.

3.3.3 Position the mated ferrules into the spring clamp so that the ferrule boots are located between the prongs on each end of the clamp and the ferrules are seated flat against the body of the clamp.



3.3.3

- 3.3.4 Release the handles of the tool to close the clamp.
- 3.3.5 Remove the mated ferrule and clamp assembly from the installation tool.



3.3.5