



Applications Engineering Notes

Document Title	Instructions for MTP [®] Brand Connector Housing Removal and Pin Clamp Change
Document Number	AEN-1405
Revision Number	1.5
Effective Date	January 15, 2016

THE USE OF SAFETY GLASSES FOR EYE PROTECTION IS RECOMMENDED

1.0 Document Purpose

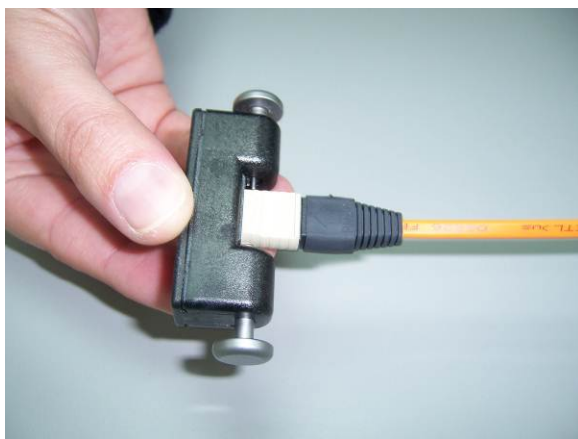
This document describes the housing removal and pin clamp change procedure for US Conec MTP® brand connectors.

2.0 Required Equipment and Materials

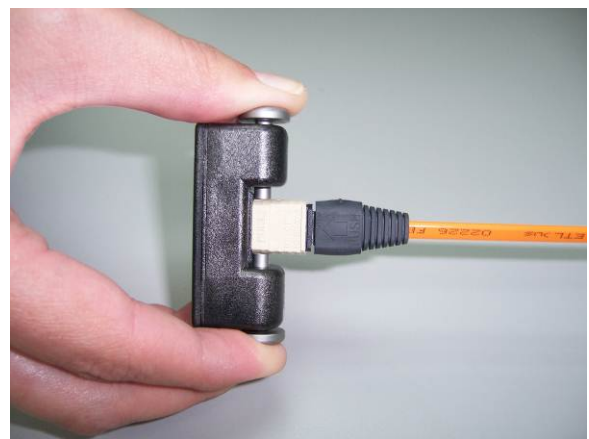
- US Conec MTP® brand connector Universal Housing Removal Tool (P/N 17421)
- Male pin clamp or female pin clamp spacer (as needed)
- Spring compression fixture (P/N 12013)
- MT Ferrule Insertion Guide (P/N 14910)
- OPTIPOP R optical connector cleaner

3.0 Housing Removal

- 3.1 Insert the MTP® brand connector into the open end of the tool. Push the connector until it clicks into the tool.

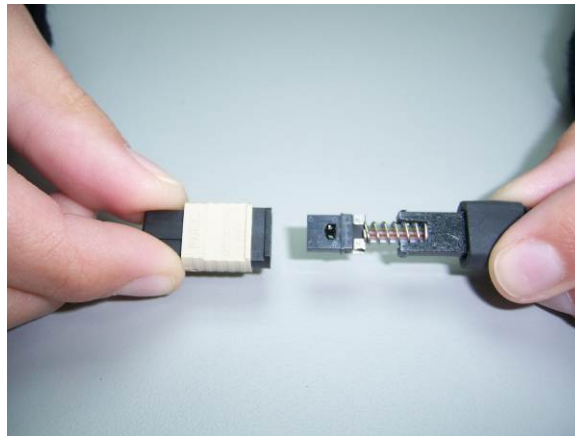


3.1



3.2

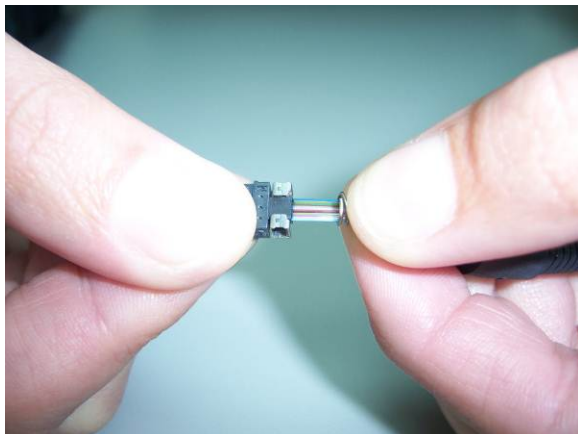
- 3.2 Depress the silver tabs to release the housing. You should hear a “click” and see the housing separate from the spring push/boot.
- 3.3 Remove the connector from the tool.
- 3.4 Gently pull the spring push/boot and remove the spring push, pin clamp assembly, and ferrule from the connector housing.



3.4

4.0 Pin Clamp Removal

- 4.1 With your fingers, pull the spring back from the pin clamp slightly.

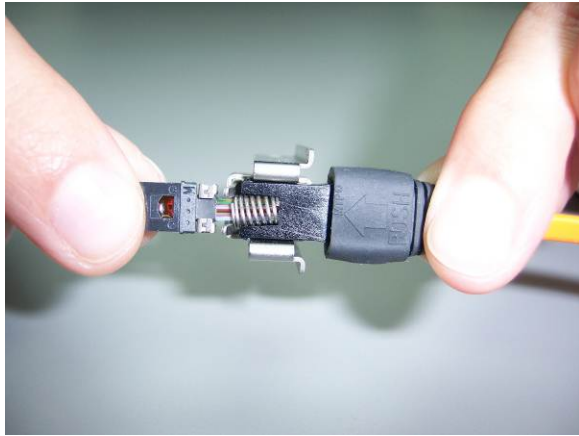


4.1

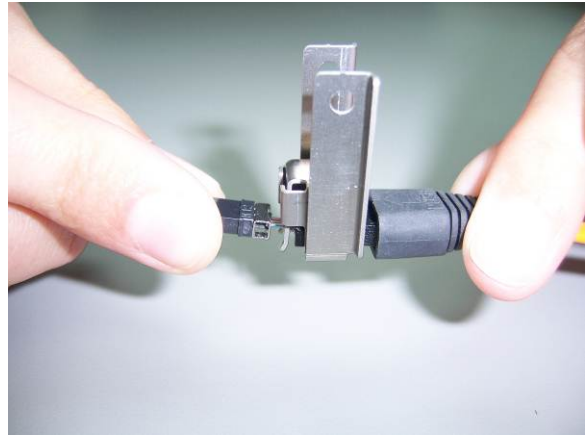


4.2

- 4.2 Insert the tongue of the spring compression fixture between the spring and the pin clamp currently installed in the connector.
- 4.3 Push the spring compression fixture over the crimp body (spring push) until it locks into place. An audible “snap” will be heard when the fixture is secure.



4.3a



4.3b

- 4.4 Remove the pin clamp from the connector. For removing male clamps, you may have to bend the ferrule forward slightly.



4.4a

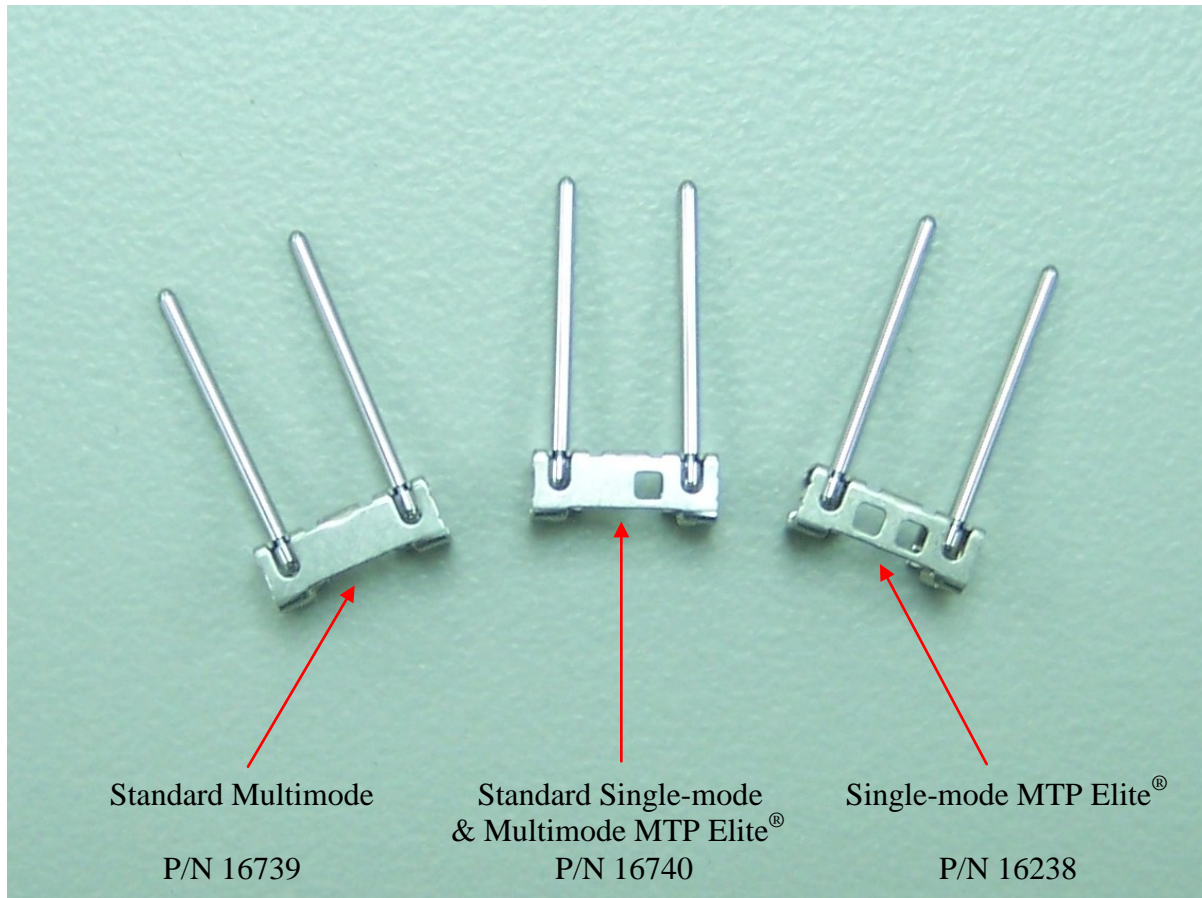


4.4b

5.0 Pin Clamp Reinstallation

5.1 Male Connectors

NOTE: When changing from female to male, make sure the proper pin clamp type is used, i.e.; standard multimode products (P/N 16739), standard single-mode or multimode MTP Elite® products (P/N 16740), or single-mode MTP Elite® products (P/N 16238).

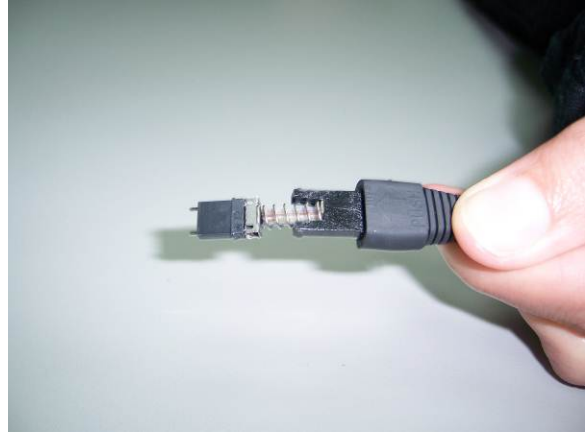


Male Pin Clamps

- 5.1.1 Obtain a male pin clamp assembly and position it on the fibers. Insert the guide pins into the holes in the rear of the ferrule. Push the clamp over the ferrule boot and firmly against the rear of the ferrule. It is important for the pin clamp to seat securely against the ferrule in order for the housing to assemble properly.



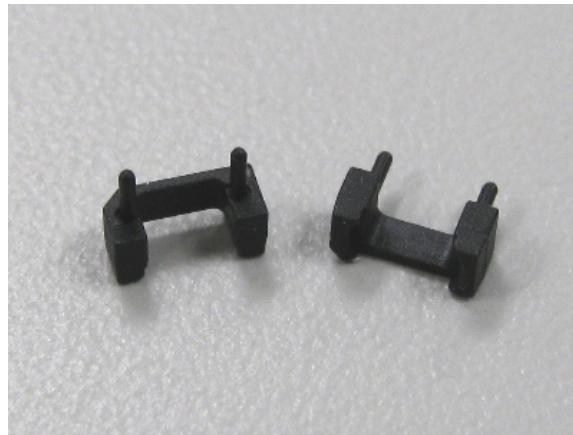
5.1.1



5.1.2

5.1.2 Remove the spring compression tool and allow the spring to slide against the clamp.

5.2 Female Connectors



Female Pin Clamp Spacer P/N 9386

5.2.1 Obtain a female pin clamp and position it on the fibers. Insert the guide pin stubs into the holes in the rear of the ferrule. Push the clamp over the ferrule boot and securely against the rear of the ferrule. It is important for the pin clamp to seat securely against the ferrule in order for the housing to assemble properly.

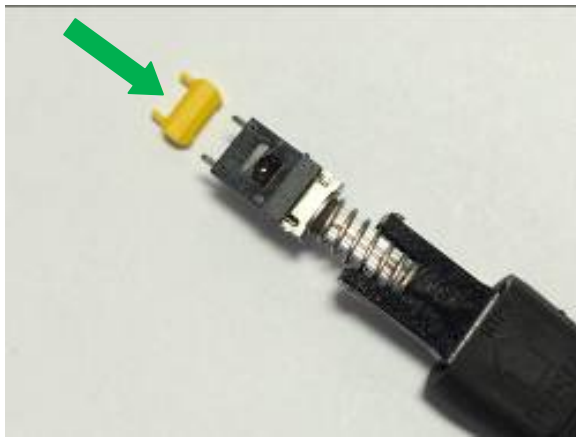
5.2.2 Remove the spring compression tool and allow the spring to slide against the clamp.

6.0 MTP® Brand Housing Reinstallation

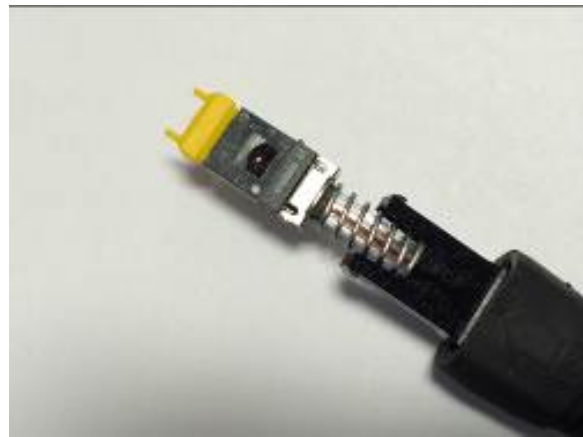
6.1 Obtain a MT Ferrule Insertion Guide (P/N 14910) and prepare as shown.

NOTE: Ferrule orientation within the housing is dependent on the polarity management method being used for the particular application. For more information, please contact Applications Engineering or consult TIA 568 standard series.

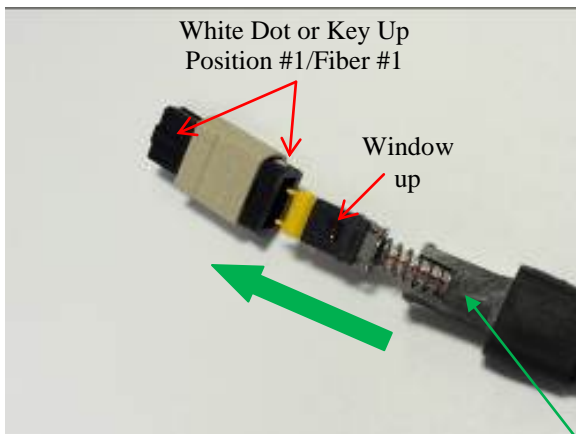
6.1.1 Male Connectors



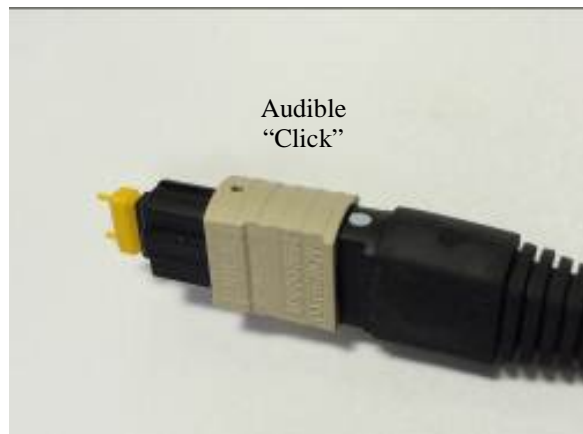
6.1.1a



6.1.1b

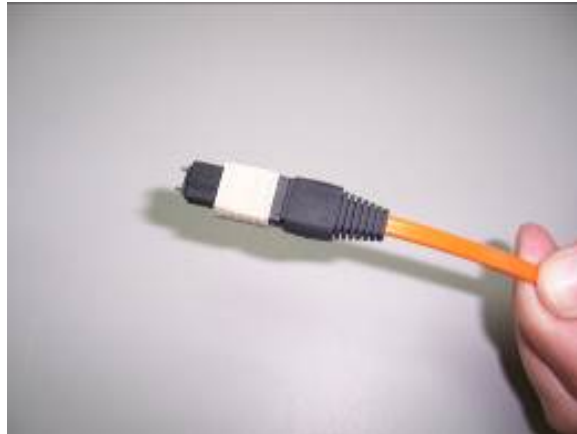


6.1.1c



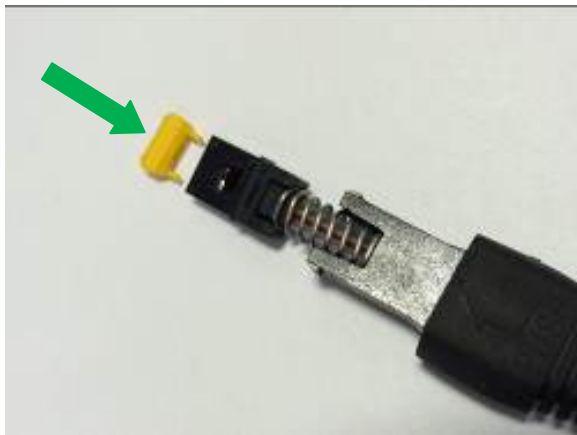
6.1.1d

Wiggle the crimp body from side to side inside the housing as you insert until an audible “click” is heard.



6.1.1e

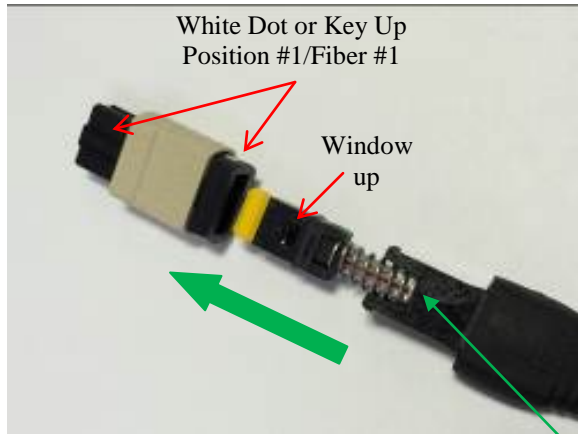
6.1.2 Female Connectors



6.1.2a



6.1.2b

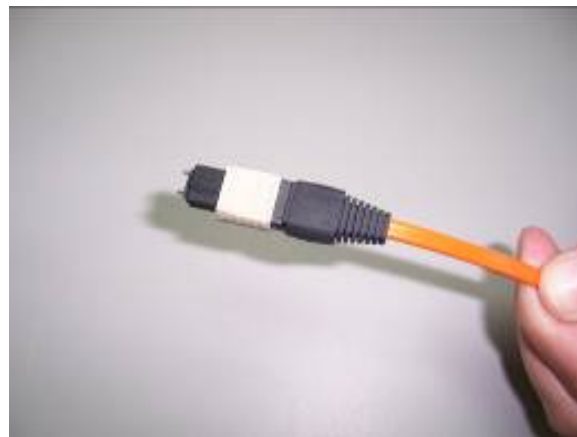


6.1.2c



6.1.2d

Wiggle the crimp body from side to side inside the housing as you insert until an audible “click” is heard.



6.1.2e

- 6.2 Clean the connector endface using the OPTIPOP® optical connector cleaner according to US Conec document # AEN-1902, “US Conec Recommended Cleaning Procedure for Multifiber and Single Fiber Connectors and Mating Adapters.”
- 6.3 Place a cap on the connector end for protection.