

Installation Instructions EZ!Connector 3mm

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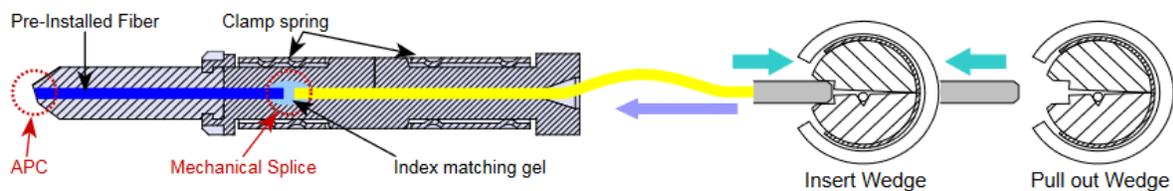
1. Purpose

This document describes the installation procedures associated with the EZ!Connector 3mm. The purpose of the document is to ensure the safe and correct installation of the EZ!Connector 3mm.

The EZ!Connector 3mm is designed for quick and easy field assembly. This connector is not designed for re-use.

2. Mechanical Connector Technology

Mechanical Connector Technology



3. Product Components

- 3.1 Strain Relief Assembly
 - Strain relief housing
 - Strain relief nut
- 3.2 Connector Grip (green/gray)
 - Plus "Cover" (clear)
 - Plus "V-groove tool" (orange)
- 3.3 Connector Holder
- 3.4 Fiber Holder



4. Product Care and Safety

- Use protective glasses when handling optical fibers
- Do not look directly at fiber ends, due to potential eye damage
- Ensure that cables are not connected to light sources
- Do not remove the connector dust cover prior to product installation
- Use proper disposal container for glass shards
- Use proper cleaning solvent on fiber ends
- Ensure the cleaver blade is clear of debris prior to use
 - Replace blade if worn or producing poor fiber cleaves



Appropriate Safety Procedures MUST always be followed

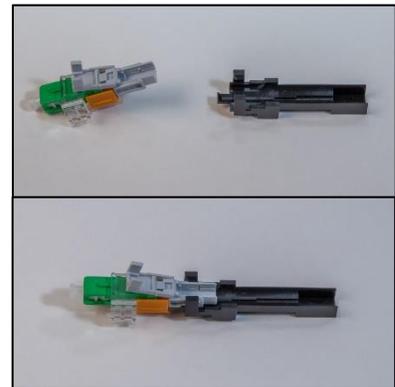
5. Required Tools

- Cleaver (Fitel S326 or equivalent)
- Fiber stripper
- Isopropyl alcohol (99%) or 2-propanol
- Marker
- Kevlar scissors
- Metric measuring strip (ruler)

6. Installation Procedure

6.1 Insert Connector Grip

- Insert the connector grip into the connector holder, as shown



6.2 Install Strain Relief Nut

- Slide the strain relief nut onto the 3mm cable, as shown



6.3 Measure and Mark Cable Jacket

- Mark the cable jacket at 40mm and 60mm



6.4 Strip Cable Jacket

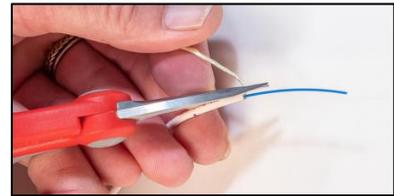
- Strip cable jacket from the 40mm mark to cut end of the cable



6.5 Trim Aramid Yarn

- Trim the aramid yarn from the stripped portion of cable

Caution: do not cut or damage the fiber



6.6 Strip Additional Cable Jacket

- Strip the cable jacket to the 60mm mark
- Do not cut aramid yarn

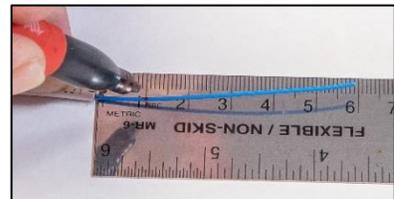


- Confirm aramid yarn is 20mm in length



6.7 Measure and Strip Buffer and Fiber

- Mark the 900µm buffer at 50mm (from the end of fiber)
- Strip 50mm of 900µm buffer and acrylate coating



6.8 Verify Bare Fiber Length

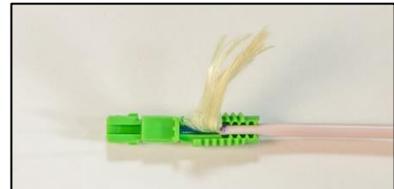
- Verify that the bare fiber is 50mm in length and that there is 10mm in length of buffered fiber



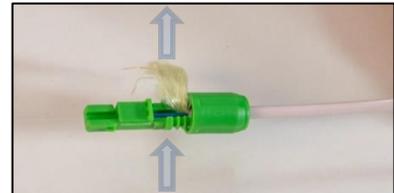
6.9 Install Cable Strain Relief Assembly

- Press buffer firmly into the strain relief housing, as shown

Note: The buffer will be inserted to the taper point (halfway up the threaded portion of the cable strain relief housing)



- Wrap aramid yarn around threads, as shown
- Slide the strain relief nut up and tighten to cable strain relief assembly, as shown



Note: Clean fiber using Isopropyl alcohol (99%) or 2-propanol



6.10 Cleave the Fiber

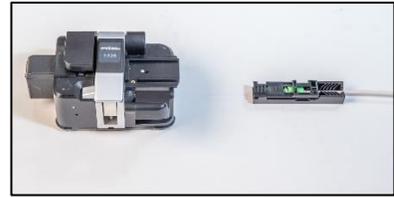
- Place the strain relief assembly into the fiber holder, as shown



- Close the lid on the fiber holder



- Cleave the stripped fiber to 10mm length



- Remove the fiber holder from the cleaver

Note: Do not clean the fiber again



- Carefully remove the cable strain relief from the fiber holder



6.11 Align Strain Relief Assembly & Connector Holder

- Align the strain relief assembly with the connector holder, as shown

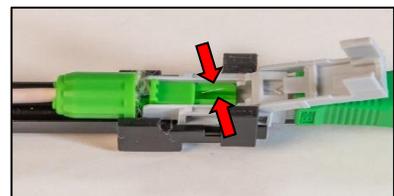
Note: Use the fiber assembly/guide template to verify correct length



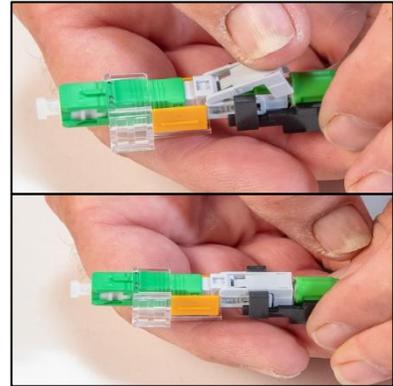
- Slide the strain relief assembly into the connector holder until the fiber is completely seated



- When seated correctly the fiber will have a slight bow, as shown

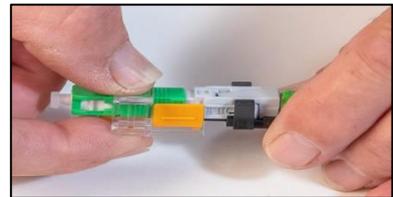


- Close the lid on the connector, as shown



6.12 Remove Cover

- Remove cover (clear) from the V-groove tool (orange)



6.13 Remove V-groove Tool

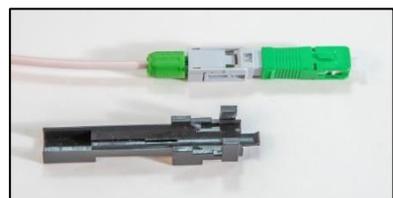
- Push down on the large side of the orange V-groove tool to unlock it
- Lift and remove the orange V-groove tool
 - This will lock the fiber into place within the connector



Note: do not discard the V-groove tool until final testing is complete

6.14 Detach Connector Assembly

- Remove the connector assembly from the connector holder



6.15 Assembly Complete

- Test cable per standard testing procedures

