



A Furukawa Company

## Installation and Maintenance of EZ-Bend® Outdoor/ Indoor Bundled MDU Cable Assembly SC APC Connectorized Coil

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### 1. General

The EZ- Bend® Outdoor/Indoor Bundled MDU Cable Assembly is used to place one cable instead of multiple EZ-Bend® 4.8 single fiber assemblies on the outside of a five or six story MDU. The five or six fiber bundle allows construction technicians to pre-position the drops by placing a single fiber twenty foot coil along the exterior of a building, to provide service to each of the living units within the building.

The EZ-Bend® Outdoor/Indoor Bundled MDU Cable Assembly utilizes the approved single fiber EZ-Bend® Outdoor/Indoor Cable used in applications today. The only differences are the bundled cable assembly has each individual EZ Bend® cable identified by connector number printed on the cable sheath and the buffered fiber in the cable construction is color coded blue through slate for ease in splicing and designating the living unit.

EZ-Bend® fiber technology is based on a novel, patent-pending fiber design that utilizes a unique refractive index profile to prevent light from escaping the fiber core. This novel design significantly improves the fiber’s bending performance to far beyond ITU G.657B requirements, while maintaining compatibility with ITU G.652 and G.657 fibers and standard termination procedures. EZ-Bend® fiber is constructed of solid glass to avoid splicing, connector polishing, and connector cleaning issues associated with hole-assisted fibers.

EZ-Bend® 4.8 mm cables use a patent-pending construction that provides minimal macro-bending loss while ensuring long-term mechanical reliability of the glass fiber when the cable is routed around sharp corners without use of bend limiters.

EZ-Bend® 4.8 MM Cables provide excellent attenuation performance with minimal bend restrictions. The EZ-Bend fiber is capable of a 360° turns around 5 mm radius mandrel with a maximum induced bending loss of less than 0.1 dB at 1550 nm or 1310 nm.

## 2. Precautions

- 2.1 Never view directly at the end of the connector face. Harmful laser radiation can damage the eyes if viewed directly.
- 2.2 Do not exceed the minimum bend radius of 3 mm when installing the cable.
- 2.3 When removing the connector silicone cap take care not to cut the protective dust cap and ferrule of the inside connector.
- 2.4 Do not use a utility knife, carpet cutter, or Xacto knife to cut open the connector cover. The connector and cordage could be inadvertently damaged.

## 3. Instructions for Installing Connector Coil in MDU ONT

### 3.1 Instructions for removing protective cover

1. Position the cover so the overlapped flattened self annealing tape is facing up. Using scissors or shears, positioned at a 45-degree angle, cut an opening into the end of the silicone cap, on the same side as the self annealing tape overlap. Be careful not to cut into the dust cover on the connector.



2. Carefully insert the scissors or shears into the opening in the silicone cap and cut down the length of the connector cover, being careful not to cut into the connector or cordage.



3. Carefully peel the mastic tape open and remove the connector from the

cover. The connector will still be in the plastic bag. If residue from the self annealing tape is present on the cordage, it can be removed easily using Chemtronics ElectroWash PX and QBE Cleaning Wipes.



### 3.2 Placing the MDU Coil inside the MDU

1. Remove the clear plastic bag. Remove the green grip from the connector by sliding forward. Set the green housing (GRIP) off to the side in a safe spot until the connector is pulled through the window input port. The white body should have a mark on the housing. This mark indicates where to orient the mark on the body to the key on the green grip when re-installing.



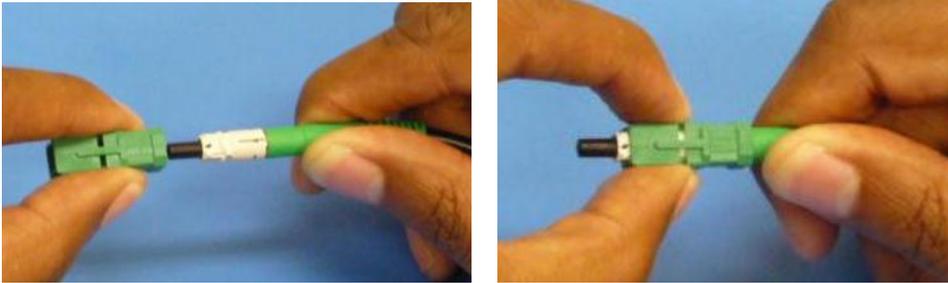
Remove the Grip

2. Replace the clear plastic bag over the connector and thread the connector through the drilled hole in the exterior wall.



Pathway through building exterior

3. Once the connector end is inside the dwelling, remove the clear plastic bag and reinsert the grip with the alignment key and the black dot on the connector both aligned on the same side as shown here:



**After new grip attachment, the connector should look like this:  
(Note black dot and grip key alignment match)**

### **3.3 Instructions for Installing OFS SC APC Connector to the ONT**

1. When inserting a completed connector into an adapter, always push on the connector boot until the connector and adapter latch together.
2. When removing a connector from an adapter, pull on the grip (not the boot) to remove the connector.

*If you have any questions or require additional information, please contact OFS at 888-FIBER-HELP (888-342-3743).*