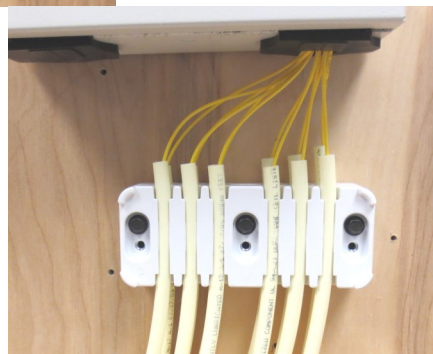
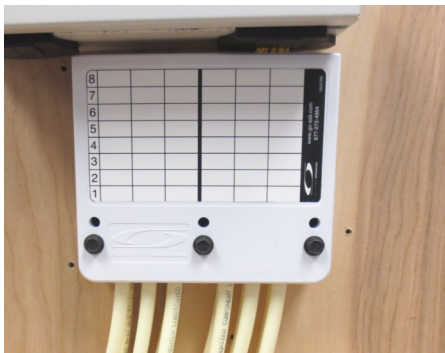


# Microduct Manifold Installation Instructions



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## 1.0 General Product Information

### Description

All Systems Broadband offers two microduct manifolds designed to organize/secure microtubes and protect optical fibers in an indoor environment. One manifold is capable of securing 8.5 mm or 10.0 mm tubes and the other is capable of securing 12.7 mm tubes. Manifolds can be stacked to accommodate tubes in multiples of six.

These molded manifolds are designed to provide an even pullout force to prevent damage to fiber from accidental pullout of tubes. The manifolds can be installed side-by-side if higher microduct capacity is needed.



Scan QR Code to watch an  
Installation video on this  
product

## 2.0 Safety Precautions



Danger: Direct eye exposure to laser light will cause serious eye damage. Avoid looking directly into an optical fiber, optical connector or optical adapter that is connected to an active light source.



Warning: Wear safety glasses to prevent accidental eye injury. Wear protective gloves and clothing to prevent accidental injury.



Warning: Observe company policies and procedures regarding personal safety.



Warning: Follow local and national safety and construction codes.



Caution: Handle fiber optic cable per manufacturer's recommendation for minimum bend radius, maximum tensile loading, and maximum crush resistance.

## 3.0 Tools Required

- **8mm or 5/16" nut driver**
- #2 Phillips Screwdriver
- 1/8" drill bit

## 4.0 Package Contents

- Microduct manifold plate
- Microduct manifold cover
- Cover label
- Installation Instructions
- Mounting screws
- Manifold bolts

Additional product information is available at [www.allsystemsbroadband.com](http://www.allsystemsbroadband.com).



Fig. 1

## Installing the Product

### 5.0 Unpacking

Ensure all components are available per the configuration ordered.

### 6.0 Mounting

1. The microduct manifold cover is used to mark the mounting holes for the manifold plate. This is achieved by flipping the cover upside down and using the **bottom** holes with the chamfered edge (Fig. 1 black circle).
2. Place and align the manifold cover above or below intended port and mark the mounting location by using the chamfered holes as shown in Figure 2.

**Note: It is recommended to leave an 1/8" gap between the manifold cover and fiber box when locating the mounting holes to prevent interference between cover and rubber grommet, also shown in Figure 2**

3. The mounting screws are inserted in the bottom holes of the manifold plate. Drill 1/8" pilot holes and secure by using the three mounting screws provided (Fig. 3).
4. Once the first microduct manifold plate is secured, route each tube to the manifold plate and cut to length. See Figure 6 for cut length estimates for either 8.5, 10.0, or 12.7 mm tubes.
5. **Push 8.5 mm and 12.7 mm tubes through the manifold plate (Fig. 4-5). Make sure 8.5/12.7 mm tube is even or just past edge after installation. Push 10.0 mm tubes until bottomed out approximately halfway through manifold plate (Fig. 6).**

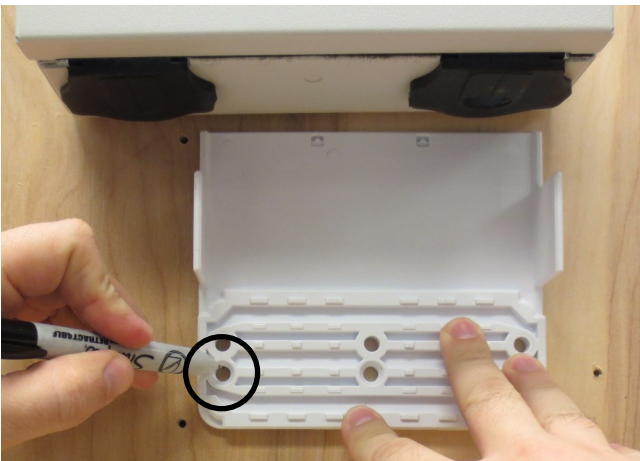


Fig. 2

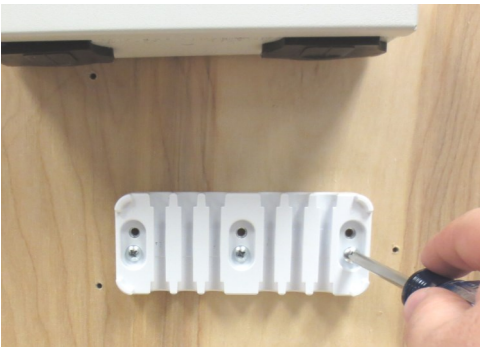


Fig. 3

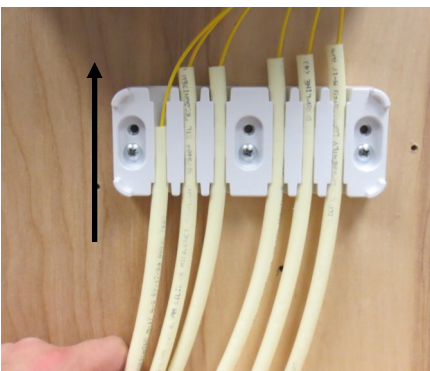


Fig. 4

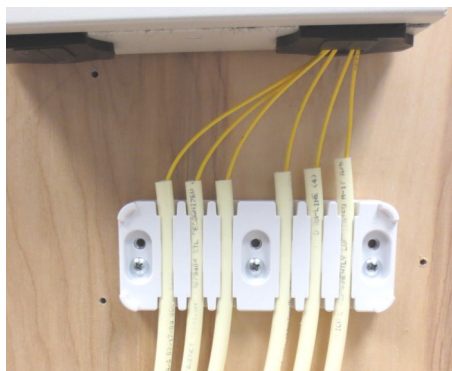


Fig. 5

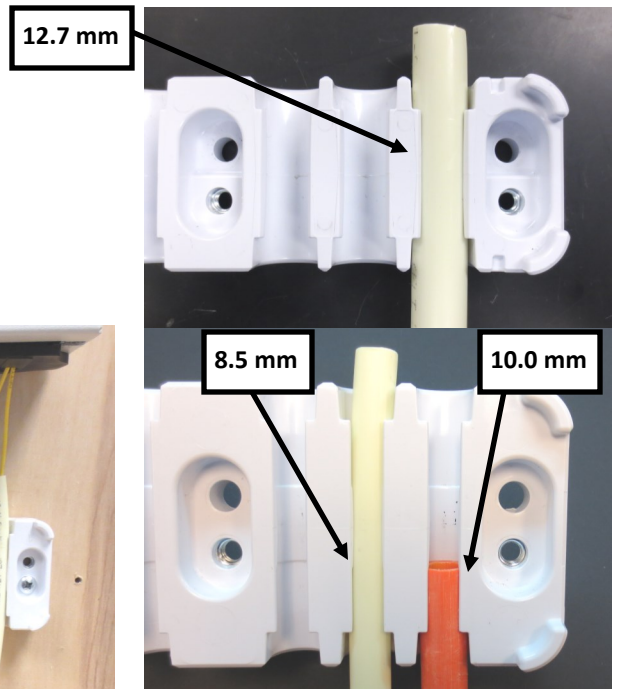


Fig. 6

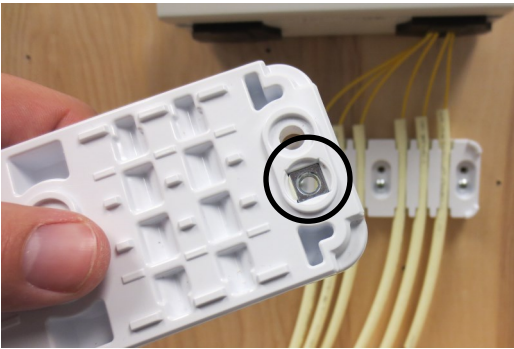


Fig. 7

**Note: Microduct plates must alternate orientation with each additional microduct plate**

- The next manifold plate should be aligned with the nut inserts on the **bottom** (Fig. 7 black circle).

**Note: Only moderate torque is required, do not over tighten**

- Secure the manifold plate by using the supplied manifold bolts and an **8mm or 5/16" nut driver**. Bolts should be inserted into the **top** holes on the manifold plate (Fig. 8).
- Route fiber jumpers into fiber box through the port grommet. Insert tubes into the microduct manifold plate (Fig. 9 & Fig. 10a-b).
- Secure the manifold cover by using the supplied manifold bolts (Fig. 11). Bolts should be inserted into the **bottom** holes on the cover (Fig. 12).

**Note: A stack of at least three manifold plates is needed in order to install the cover**

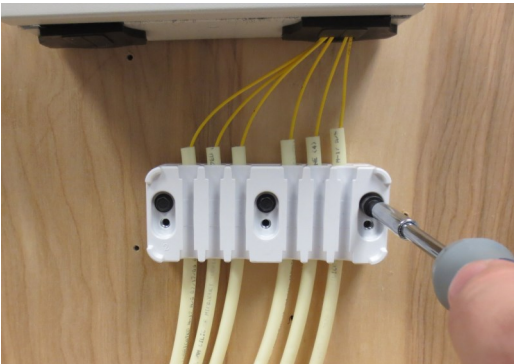


Fig. 8

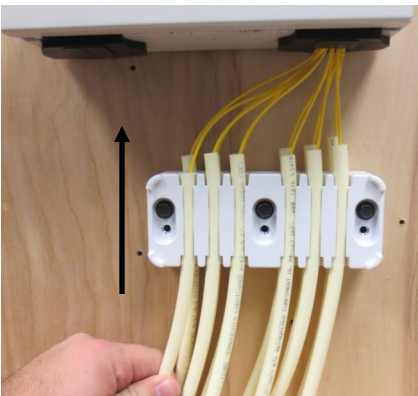


Fig. 9

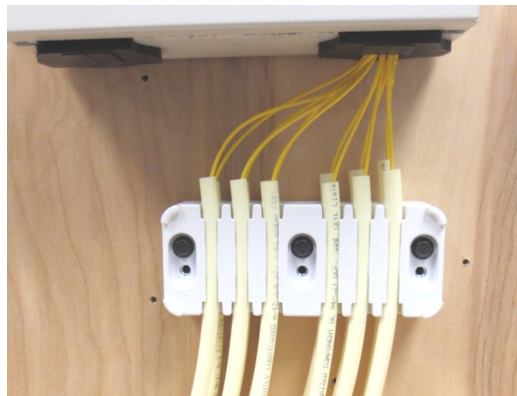


Fig. 10a



Fig. 10b

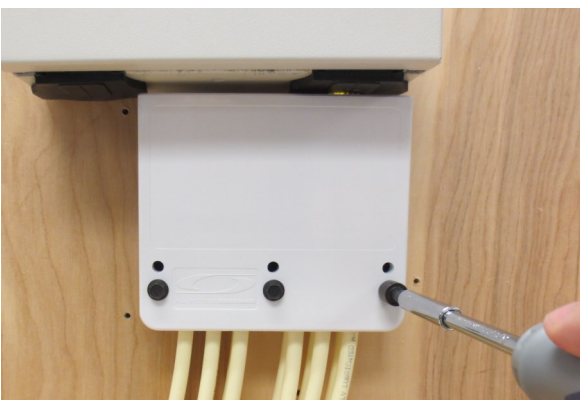


Fig. 11

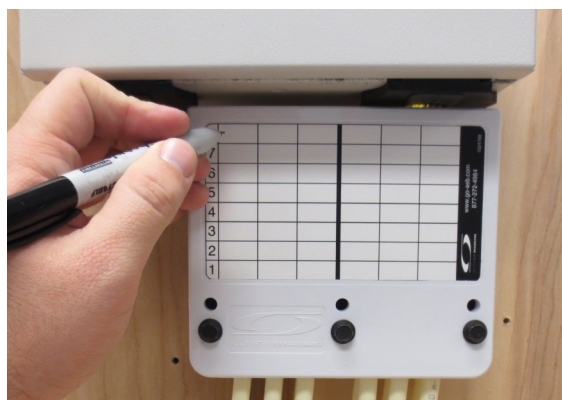


Fig. 12

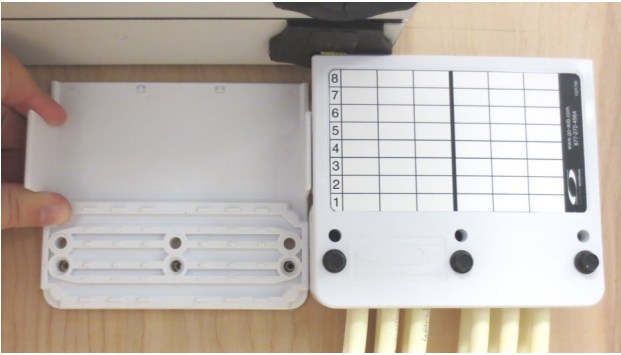


Fig. 13

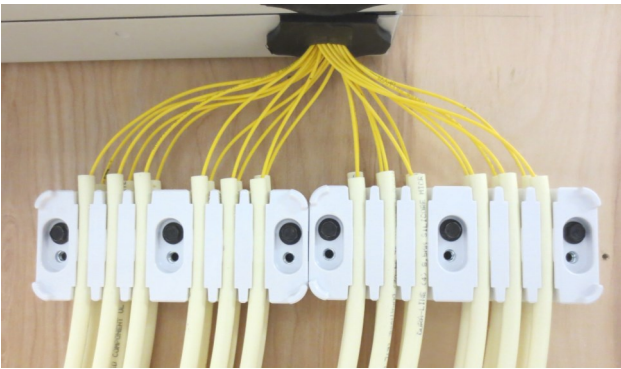


Fig. 14

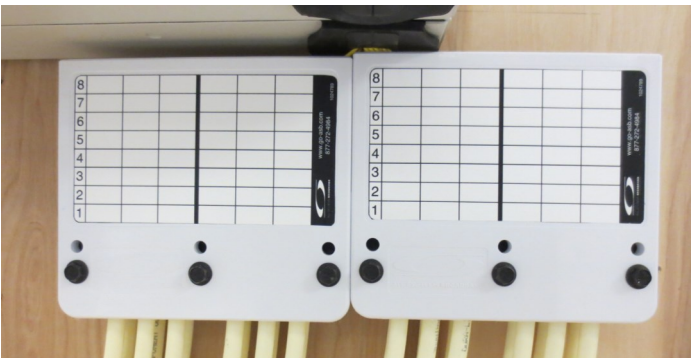


Fig. 15

## 7.0 Mounting Multiple Manifolds Side by Side

Manifold assemblies may be placed side-by-side in applications that require a high capacity of tube storage. The manifold cover allows for fiber jumpers to transition from one manifold to another and in the fiber box port.

**Note:** To avoid covering other ports in the fiber box it is recommended to install the manifolds in the middle of the desired port (Fig. 13)

1. Mounting of the second manifold assembly is the same as a single manifold. The manifold can be placed directly beside the existing manifold and with the same 1/8" gap between the manifold cover and the fiber box (Fig. 13).
2. Route fiber jumpers from the second manifold into the cover of the first manifold (Fig. 14).
3. Secure the second manifold cover with the supplied manifold bolts. Place the label on the manifold cover. (Fig. 15).

## 8.0 Connector Cleaning

– Recommended prior to product usage

**Note: Utilize connector and adapter protective caps whenever possible; however, this practice does not guarantee cleanliness of the optical interface.**

Before connecting, or after each disconnect, it is recommended to perform the following cleaning procedure. A connector inspection scope, lint-free wipes and optical cleaning solvent are necessary equipment.

This procedure conforms to the IPC 8491-1, “Cleaning Methods and Contamination Assessment for Optical Assembly.”

- Make sure the fiber is not active.
- Remove the protective caps.
- Gently wipe the connector ferrule end with a lint-free wipe.
- Verify the cleanliness of the connector with an inspection scope.
- If necessary, gently wipe the fiber end with a lint-free wipe moistened with a small amount of cleaning solvent. Then dry with a clean lint-free wipe.
- Verify the cleanliness of the connector with an inspection scope.

## 9.0 Customer Service

1-877-272-4984

customerservice@allsystemsbroadband.com

[www.allsystemsbroadband.com](http://www.allsystemsbroadband.com)



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