

1. INTRODUCTION

This Instruction Sheet describes the procedure for attaching optical fibers to AMP MT-RJ 54mm Modules using the components contained in the MT-RJ 54mm Module Kit. These instructions apply to Module Kits 98-A286-103-1 (50/125 μm fibers) and 98-A286-103-2 (62.5/125 μm fibers). Each kits contain 6 (six) individually packaged MT-RJ 54mm Modules and 2 (two) actuation keys. The modules are for use in a rack mounted drawer capable of accommodating up to 24 MT-RJ 54mm Modules. The MT-RJ 54mm Modules—each containing two multimode fibers—are connected to the rear of an Adapter Block. Cable assemblies are then connected to the front of the Adapter Block, where they mate with the MT-RJ 54mm Module. The MT-RJ 54mm Module and related components are illustrated in Figure 1.

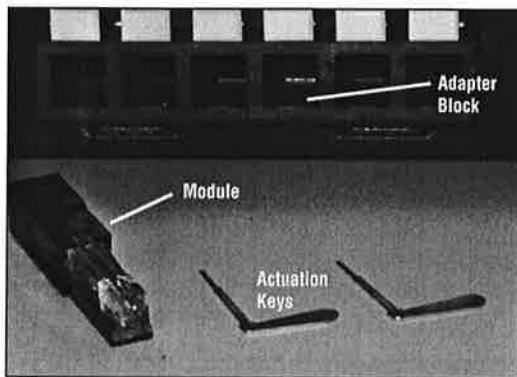


Figure 1

2. ASSEMBLY PROCEDURE

DANGER:

To avoid personal injury, always wear safety glasses when working with optical fibers. Laser radiation is invisible but can damage eye tissue, therefore never look into the end of terminated or unterminated fibers. Never eat, drink, or smoke when working with fibers, as this could lead to ingestion of glass particles.

2.1 PREPARATION

1. Unpackage the Module Kit and select one module and one actuation key.
2. Insert the module into a front opening in the Adapter Block (see Figure 2).

NOTE:

The module does not lock into place. It is inserted in this position for convenience while attaching the optical fibers.

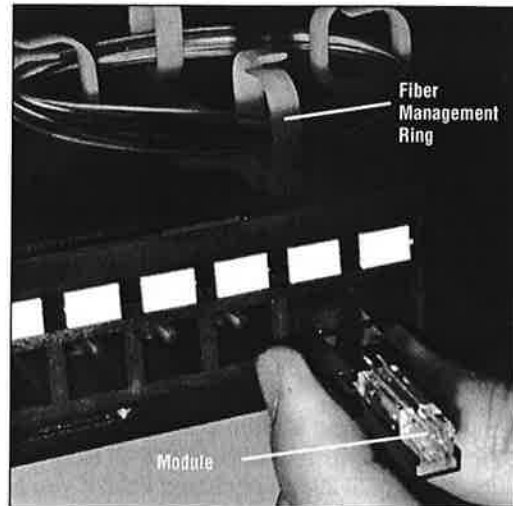


Figure 2

3. Note that on the top of the module there are A and B labels for each channel. Insert the actuation key—with the key handle pointing up—into the top hole of the A channel. Turn the key 90° so that the handle points in the outboard direction (see Figure 3). This is called the open position.

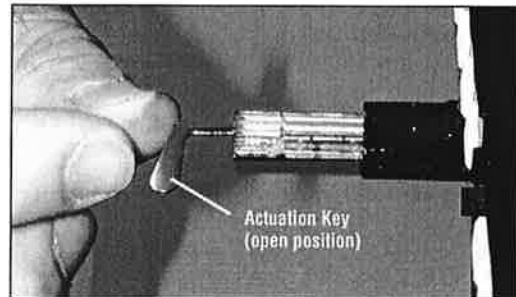


Figure 3

CAUTION:

The interior of the module contains index matching gel. If the gel contacts skin or eyes it may cause irritation. If contact occurs, wipe off the material and immediately flush the area with water. Additional safety information on this gel is in AMP Material Safety Data Sheet (MSDS) 125-6370, available by contacting the AMP Technical Assistance Center at 1-800-722-1111.

4. Select two fibers for the first module. Typically, fibers are color coded and terminated in this order:
1A-Blue, 1B-Orange
2A-Green, 2B-Brown
3A-Slate, 3B-White
4A-Red, 4B-Black
5A-Yellow, 5B-Violet
6A-Rose, 6B-Aqua

The A and B designation refer to the fiber channels in the module. Each module has an A and B channel.

NOTE:

Remember that when connecting one rack to another rack, the pairing on one panel will be as listed above and the pairing on the other panel will be reversed. That is, they will be 1A-Orange, 1B-Blue, 2A-Brown, 2B- Green, 3A-White, 3B-Slate, 4A-Black, 4B-Red, 5A-Violet, 5B-Yellow, 6A-Aqua, 6B-Rose. This pairing will ensure optical continuity of the A channel of one module with the B channel of the other module.

5. If you are using 900 μm tight buffered cable, use the Micro-Strip Tool (P/N 492109-2) to strip the buffer, leaving 28-29mm of coated fiber. If you are not using buffered cable, go to the next step.
6. Strip the 250 μm coating from the fiber using the Miller Tool (P/N 501554-1), leaving 28-29mm of bare glass. Clean the fiber with an isopropyl alcohol dampened lint-free wipe (such as P/N 501857-2).
7. As shown in Figure 4, cleave each fiber using the Cleave Tool (P/N 492674-1), leaving an exposed glass length after cleaving of:
 - 8 to 9mm (0.31 to 0.35 inches) for 250 μm coated fibers
 - 11.5 to 12.5mm (0.45 to 0.49 inches) for 900 μm buffered fiber.

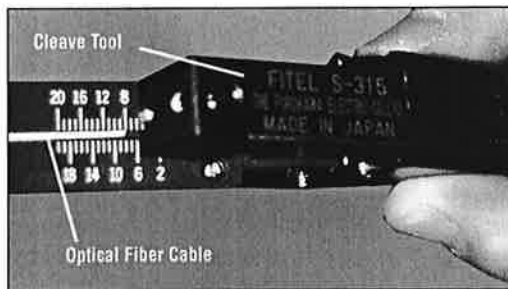


Figure 4

DANGER:

Dispose of fiber ends properly. Fiber slivers can easily puncture the skin and cause irritation.

2.2 INSTALLATION

1. Insert the appropriate color fiber into the bottom hole of the A channel of the module. Push the fiber into the hole until it stops and a slight buckle in the fiber is created (see Figure 5). While holding the fiber in place, turn the actuation key handle until it points up (called the closed position). Remove the actuation key. Return to step 2.1.3 and repeat the process for the B channel of the module.

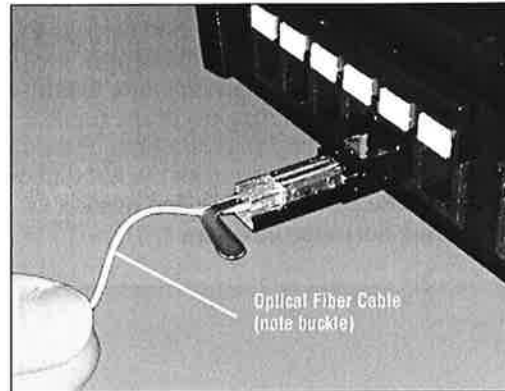


Figure 5

2. Remove the module from the front opening of the Adapter Block and insert it into the appropriate rear opening of the Adapter Block until it locks in place (see Figure 6). Organize the fibers as necessary using the fiber management rings.

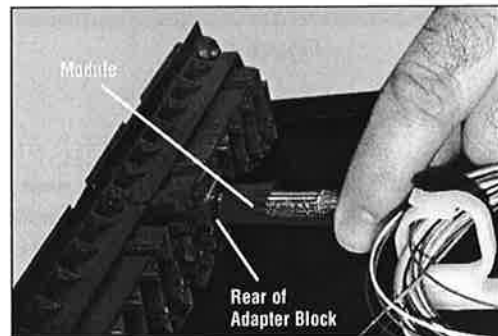


Figure 6

3. If the module is inadvertently inserted into the wrong opening in the Adapter Block, the actuation key may be used to unlatch the module. Insert the actuation key underneath the module so that it slides between the module and the latch. Lift up on the key to deflect the latch and slide out the module.