Field Installable Connector Assembly Manual

（Embedded-UPC）
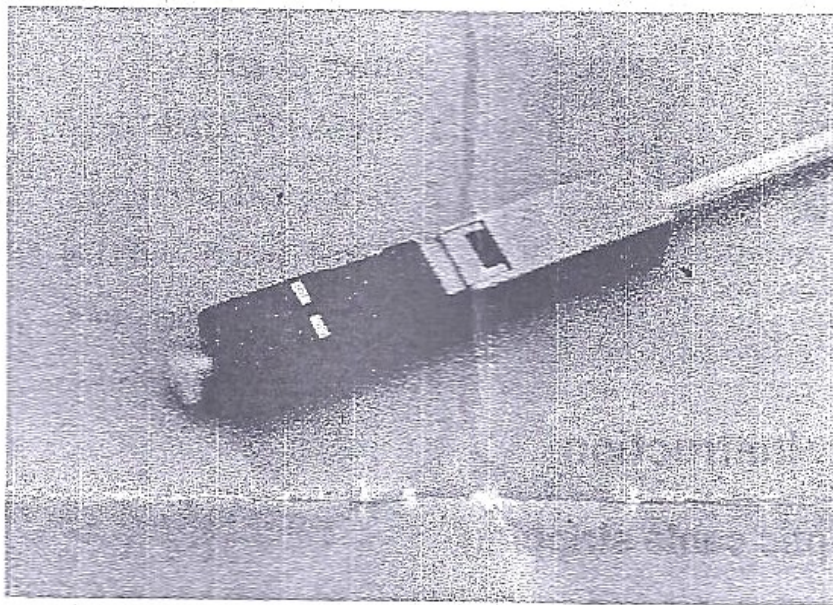
Fast fiber connector is used for field-installable optical fiber connector, widely used in Fiber To The Home (FTTH) access optical networks, not only for single-mode or multimode fiber, and can also choose to 900um,3 mm and the introduction of cable buffered type. With fast installation time and low insertion loss, the connector system provides a good alternative to fusion splicing. Installation is as easy as strip, clean, cleave cam and crimp.
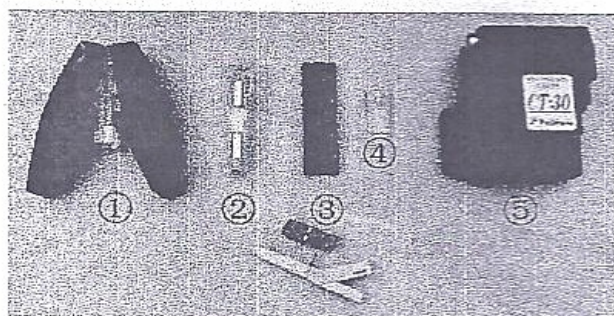
A. Components

1. Back cover open tool
2. Housing Body
3. Field installable Mini-MT ferrule
4. Small pieces
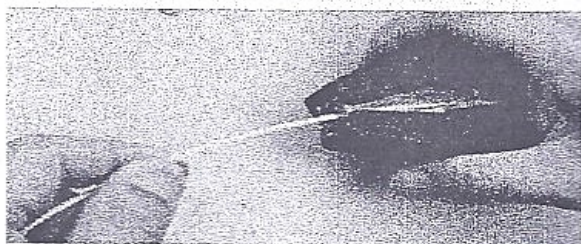5. Crimp eyelet
6. Protective shell
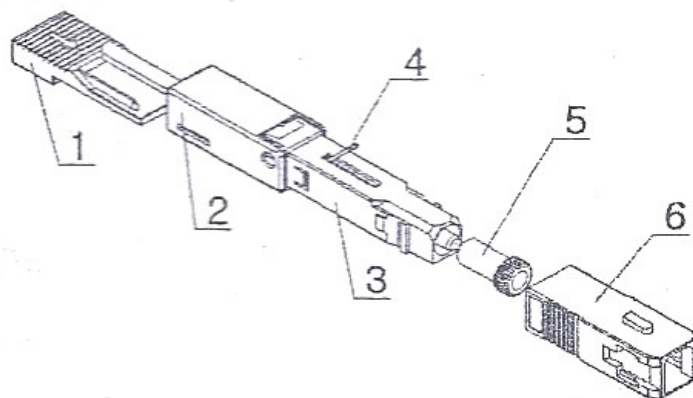
B. Tooling Kits

Shown at left:

1. Butterfly fiber optic cable crimpers
2. Mechanical stripper
3. Fixed-length cutting template
4. Back cover open tool
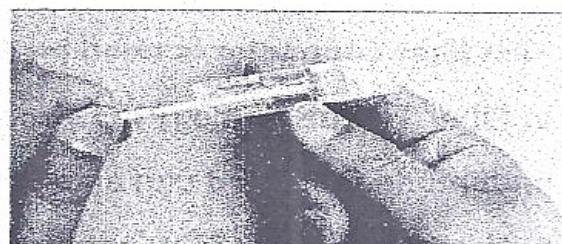5. Fiber cutting tool

C. Installation Instruction

Step1: Fiber optic cable stripping
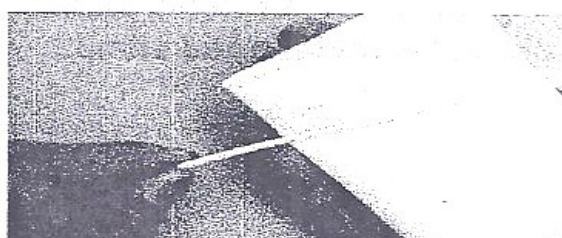
1. Strip the fiber jacket for about 50mm

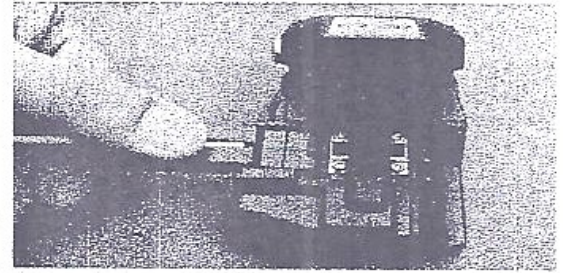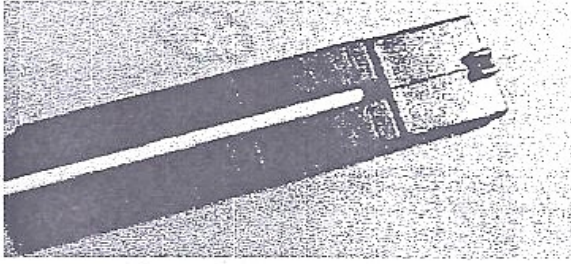2、Use Mechanical stripper remove coating layer 0.25mm, leaving about 24mm;

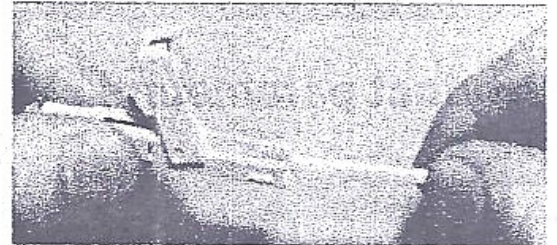3、Wipe the fiber with a piece of tissue (It's better to use alcohol).

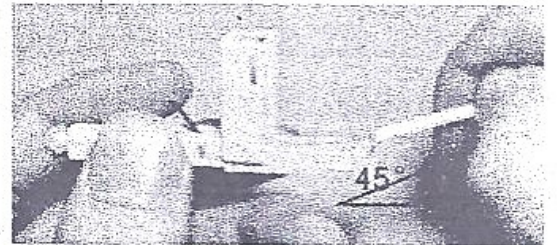4. Set cable length 32mm by cutting template, cut the fiber in length.

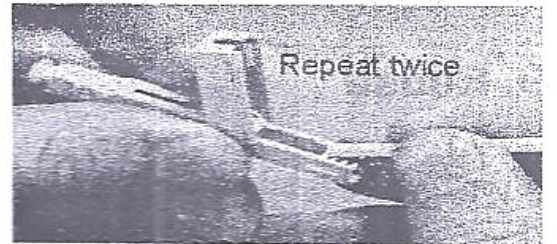## Step2: Fiber insertion and assembly

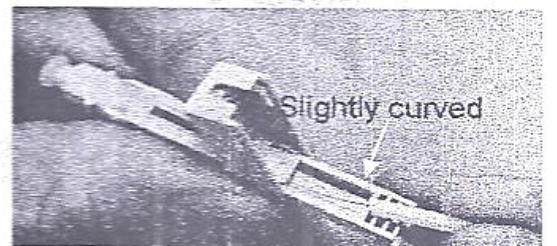1. Open the back cover of the connector housing, insert fiber in place.

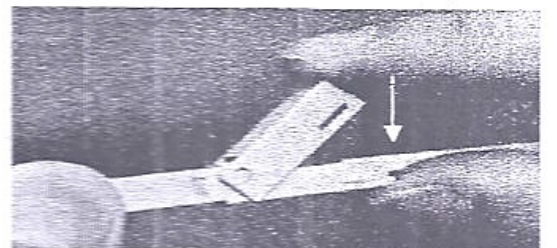2. Tilt cable 30-45° until it stopped by clip of connector.

3. Promote the cable until the fiber from housing slightly bending 2-3mm then forward , repeated twice.
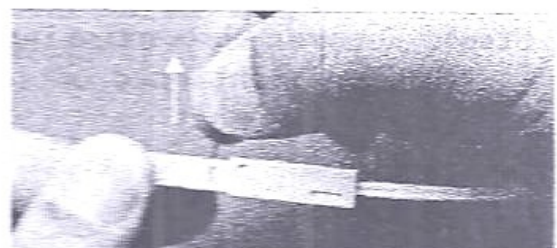
4. Press fiber into the booth slot, ensure the fiber has slightly curved.

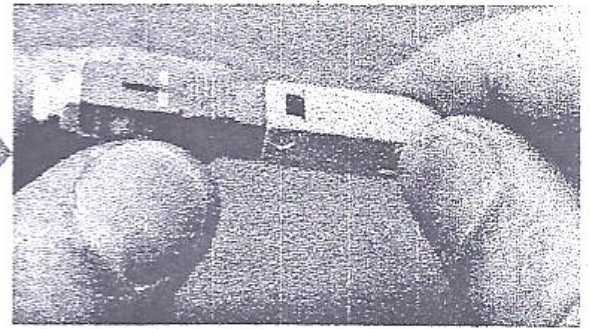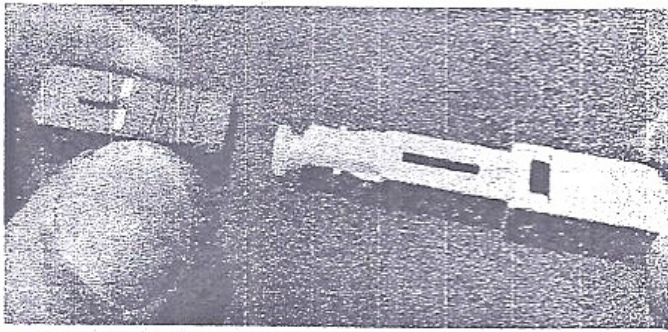5. Close the back cover to ensure the reliable lock of the back cover on the sides.

6. Pull out the small piece of fiber.

## Step3: Assembly of the protective shell

Product parameters

Project	Technical parameters
Optical Fiber	2.0mm×3.1mm Butterfly type
Plug Type	SC UPC
Diameter of Fiber	0.125mm
Fiber mode	Single Mode
IL	<0.5dB (0.2dB typical)
RL	>50dB
Tensile strength	>40N
Fastening strength of naked fiber	>5N
Reusable	>5 times
Mechanical durability (500 Rematings)	Δ IL ≤0.5dB
Thermal Shock	ΔIL<0.5dB, ΔRL<5dB
Storage/Operating temperature	-40℃—+85℃
Drop-off Test	Δ IL ≤0.3dB
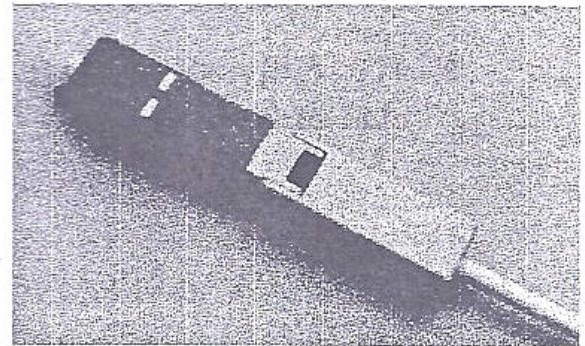
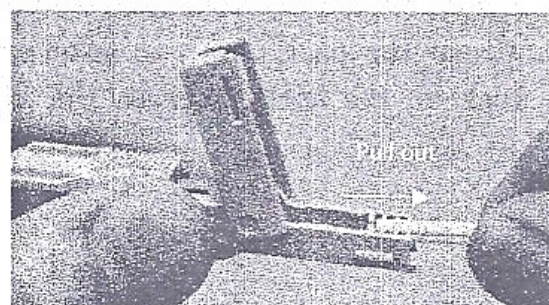## D. Reuse

Step1: Remove the fiber optic connector protective shell

Step2: Use back cover tool to open the back cover of Housing

Press Down   Pushing Forward
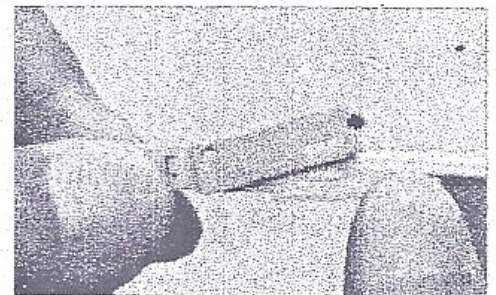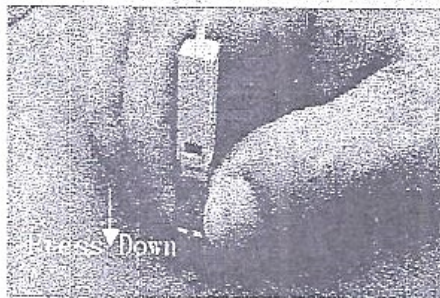
Step3: Position the cover tool at the Housing of connector, push forward it to completely push the old fiber out of connector Housing

Pressed positioning

push small piece

Pull out

Step4: Remove the existing fiber, insert a new fiber, and repeat the above-mentioned optical fiber positioning and fixed steps to complete the assembly