

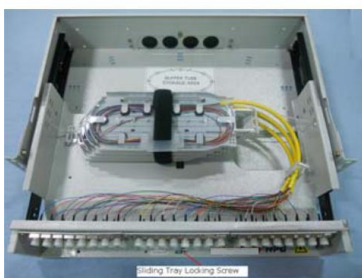
## FIBER MANAGEMENT SYSTEM

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### 1 Introduction

**Products function:**

This is mechanical shelf suitable for rack mounting fiber management system. It is used for both splicing and patching. Splicing primary coated fiber from loose tube cable to fiber pigtail on a single element base and connector patching to pigtails with a capacity ranging from 12 to 96 splices and connections. It is a high-density multifunctional unit designed for particular applications and environments. This unit uses Splicing trays as per requirement. The special feature of this FMS is that it is having the facility to store the extra length of the fiber loose tube. The unit can be mounted on both 19” as well as 21” Networking racks.



**2.1 Kit Content**

**Contents**

1. FMS Metalchassis with drawer:
2. Splicing Tray (F / A Tray)
3. Tray Lid
4. Adaptor (FC/ SC/ LC/ ST/ E2000)
5. IF Cable (FC/ SC/ LC/ ST/ E2000)
6. Splice protection sleeve
7. Transport Tube Subkit
9. Cage nut
10. Allen screw with washer
11. Cable ties
12. Hose clip
13. Tissue paper
14. Isopropylalcohol – 50ml
15. Stud Strength Member
16. Single Element Module

**Dimensional Specification:**

Descrp.	H(mm)	W(mm)	D(mm)	Fiber Count(Max)	
FMS1U	50	444(484)	280	24F	48F (Duplex Adaptors)- SC Type
FMS2U	90	444(484)	270	48F	96F (Duplex Apadaptor) – SC Type
FMS3U	132	444(484)	270	72F	
FMS4U	178	444(484)	270	96F	

### 3. Installation of the Shelf

#### 3.1 Mounting of the Shelf in the Rack

3.1.1 Determine the position of the Shelf in the rack .Fix the cage nuts in the rack mounting up rights.



3.1.2 Mount the Shelf in the Rack

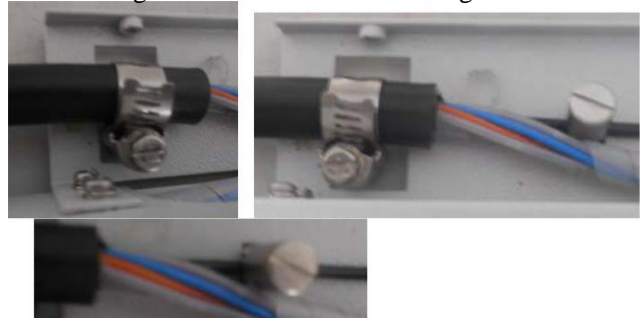


#### 3.2 Cable Termination

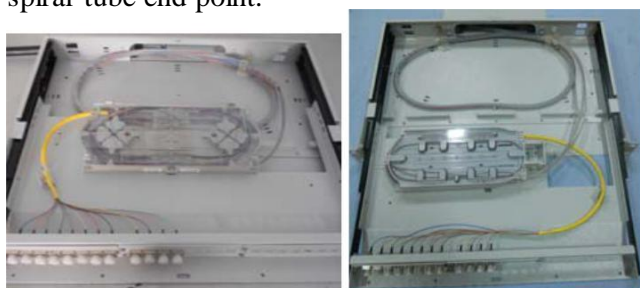
3.2.1 Remove the cable jacket approximately 2.2 m. Clean the gelly and cut the strength member to suitable length (max. 5 cm).



3.2.2 Fix the cable on the termination plate with hose clip. Hold the strength member in the Stud Strength Member.

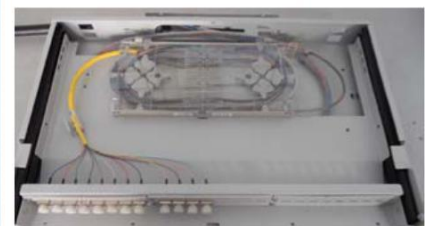
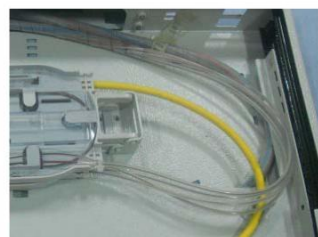
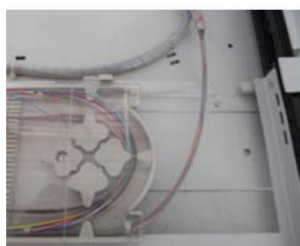
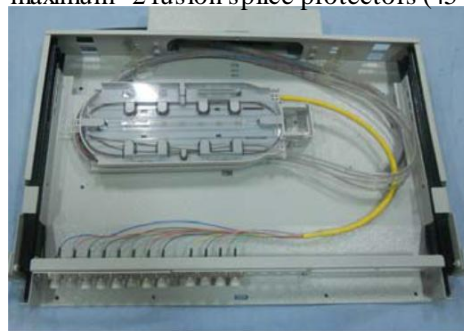


3.2.3 Protect the loose tubes with Spiral bunch holder and tie them with cable tie at the given locations. Hold the bunch in Plastic ladder support and then coil the extra length in the space for loose tube storage as shown. Pull the sliding tray to its full length & use transport tube for the bear fiber from tray entry point to the spiral tube end point.



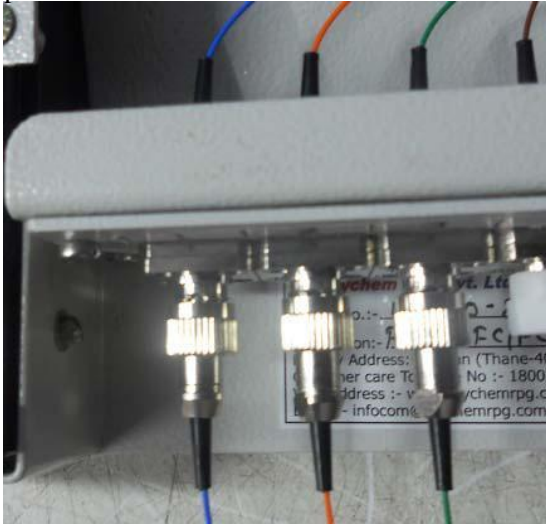
#### 3.3 Preparation of Shelf

Prepare the trays with the splice of the fiber & pigtails and store the splice in the Single Element Module or Splice holders as shown in the fig. The F tray consists 2 modules to hold 24 splices and 6 splice holders to hold 12 splices each. Each slot can hold maximum 2 fusion splice protectors (45 mm long).



**3.4 Patching**

Install the connectors of the patch cords at respective positions.



**3.5 Closing the Shelf:**

Hold the top cover in position at the rear end and press gently at the front end to lock the top cover. Slide the tray and slide the locking screw provided at the front end of the tray for locking.



**4 Important Steps**

1. Make sure the transition primary to secondary fiber is in a straight line under the splice protector.
2. Cut excess length of tie –wraps
3. Make sure all fibers and pigtailed are properly routed and are under containment lips.

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