NGFM Fiber Outdoor Cabinet 600 Core

PRODUCT OVERVIEW

This instruction manual describes Litech NGFM Fiber Outdoor Cabinet 600 Core, and describes procedures on the installation and operation on the cabinet

GENERAL SAFETY PRECAUTIONS

Danger: *Infrared radiation is invisible and can seriously damage the retina of the eye. Do not look into the optical adapter of an operational transmitter, or into the launching (output) end of an active fiber.*

NGFM FIBER OUTDOOR CABINET 600 CORE

1.0 Description

NGFM Fiber Management System are designed for splicing and of terminating optical fiber where higher fiber density is required. NGFM features a modular system for splicing and patching with flexible cable management systems. All cable are front accessable with individual slide out splice organizer tray for easy fiber maintenance. The cabinet is made of glass fibre re-inforced plastic material with ultra-violet protection for outdoor application.

2.0 Outside Plant Cable Installation

> 2.1 Use the following procedure to install the cable and strength member clamps. The cable strength clamp is reversible so proper cable orientation is achieved whether cables are routed from above or below the splice module.
>
> 2.2 Position one of the reversible cable strength member clamps on the rear pair of mounting brackets.

2.3 Strip the outside plant cable as shown in. Clean the buffer tubes and fibers. If buffer tube cable is not used, a breakout kit is required to protect the fibers.
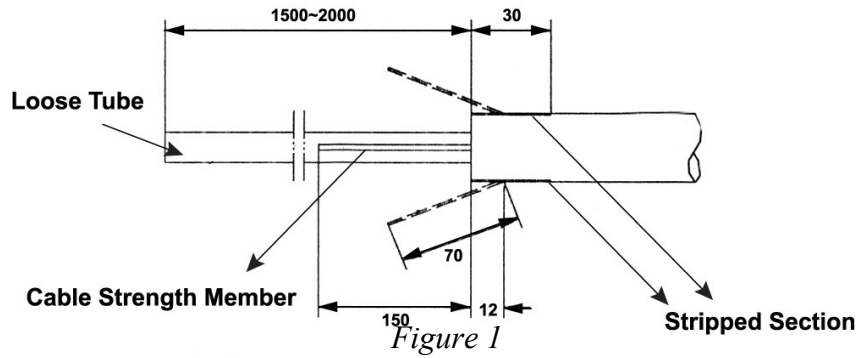
Figure 1

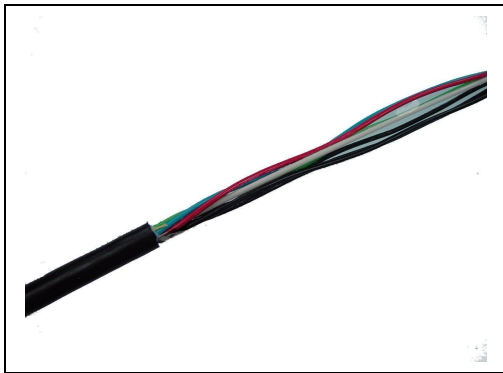2.4 Clean all cable grease from loose tubes with cable cleaner.
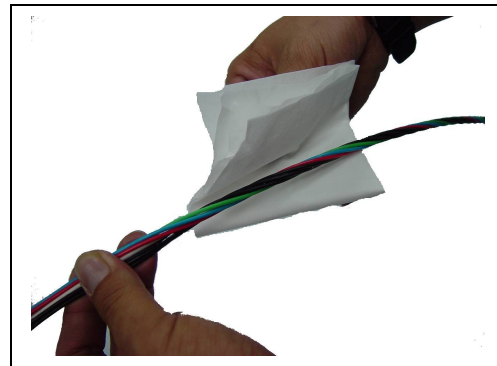

Figure 2

Figure 3

2.5 Bring the outside plant cable from the base of cabinet.
2.6 Secure the central strength member to the strain relief point and secure the cable with base clamps provided.
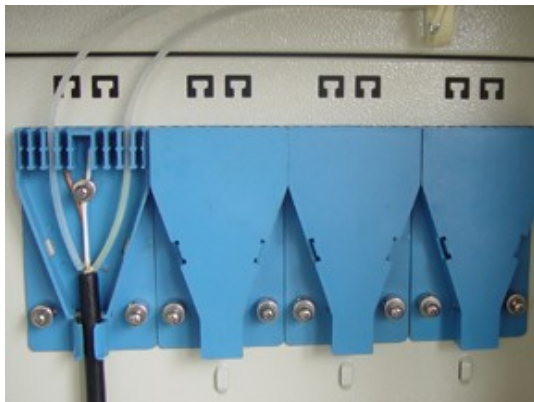

Figure 4

Figure 5

2.7 Install the cable branch-off kit and bring the loose tube to respective NGFM tray as per Figure 4 and Figure 5
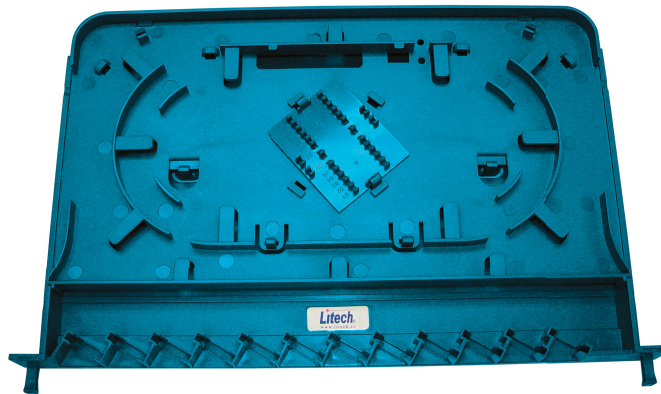
3.0 Installation Of Fiber Adapter

Figure 6

3.1 Press the locking latch and open the tray cover and splice layer.
3.2 Insert fiber adapter into the adapter slot a press until it level with the base.
3.3 The adapter slots are suitable for FC, SC, E2000 adapter
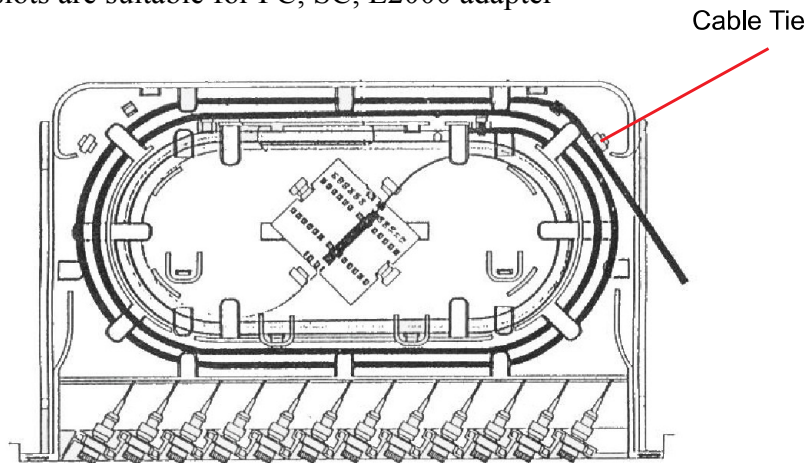
4.0 Fiber Splicing

Cable Tie

Figure 8

4.1 Press and remove the top cover.
4.2 Route the outside plant fiber as per figure 8 for proper bending radius, tight the buffer tube for strength relief.
4.3 Splice the outside plant fiber with pigtail cable as per company practice.

4.4 Insert the pigtail cable to the bottom tray through the hole, route the access cable to the bottom tray.
4.5 Insert the connector to the rear of adapter respectively.
4.6 Press and close the top cover, slide the NGFM tray into the slot of fiber panel.

5.0 Fiber Patching

For interconnect or cross connect patching recommended fiber patching right is 3 meter. Routing the patchcord as the figure below.
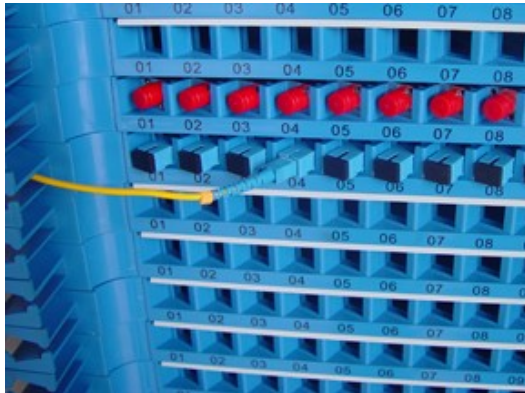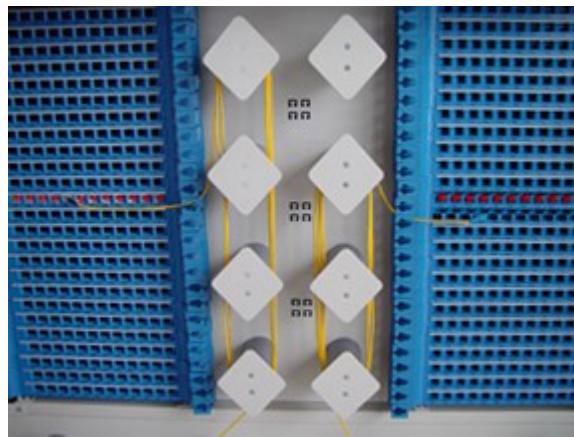

\Figure 9

Figure 10

Figure 11

6.0 Cleaning Adapters and Connectors

Dust and other contaminations on fiber optic connectors and adapters can seriously degrade circuit performance. To prevent contamination, unused connectors and adapters must be protected with clean dust caps. Routine termination activity can also introduce contaminants; therefore, it is essential that connectors and adapters must be cleaned before making connections. The cleaning kit available from Litech can be used to clean any style of fiber connectors.