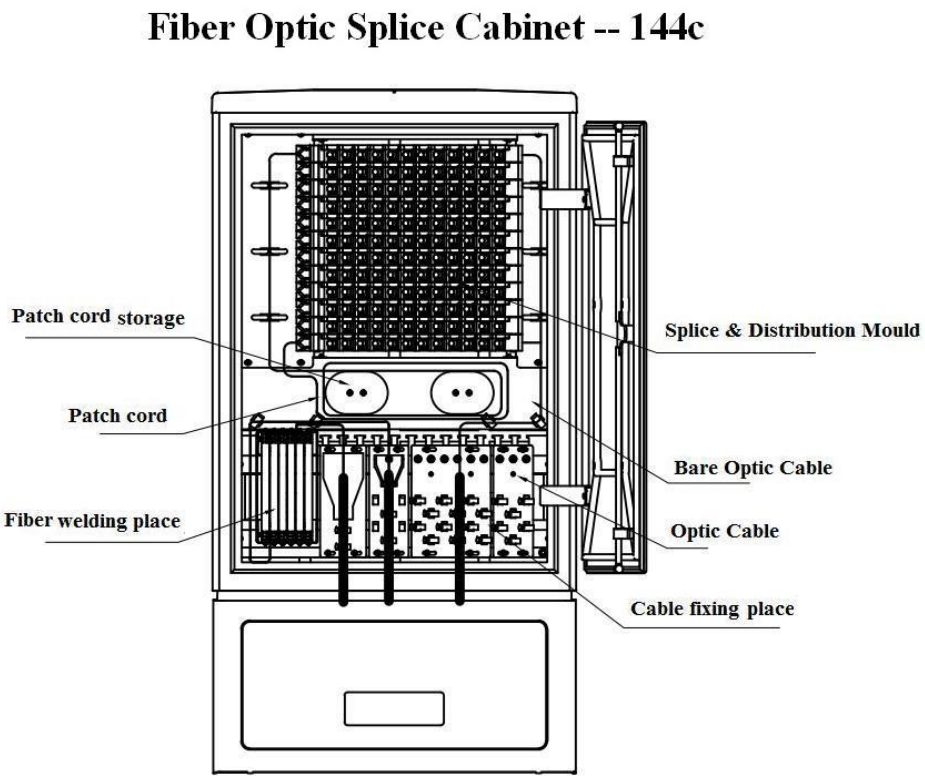
FIBER OPTIC SPLICE CABINET

NCM-FOSC-144C

Fiber Optic Splice Cabinets are suitable product for Indoor/outdoor application. Such cabinet can be installed in a telecom room or at the basement of building or inside the premises or at the corner of street. This cabinet is designed to cater to a high fiber count requirement & is expandable from 144C. Modular design provides great flexibility to customization as per the user's requirements, based upon the network design.

Fiber Optic Splice Cabinets are designed to function as an interface between the feeder and distribution sections of point to multipoint networks like PONs and some point-point networks. It houses pre-terminated "Adapter Ports", Space for placement of splitter unit (1230x620x330) & half moon assembly for routing of out-going patch cords.



1.1. APPLICATION

◆Fiber to the Home (FTTH) networks
◆Point-to-Point Fiber Networks
◆Telecommunication Networks- Outside Plant
◆Distribution inside high rise MDU

1.2. QUALIFICATION

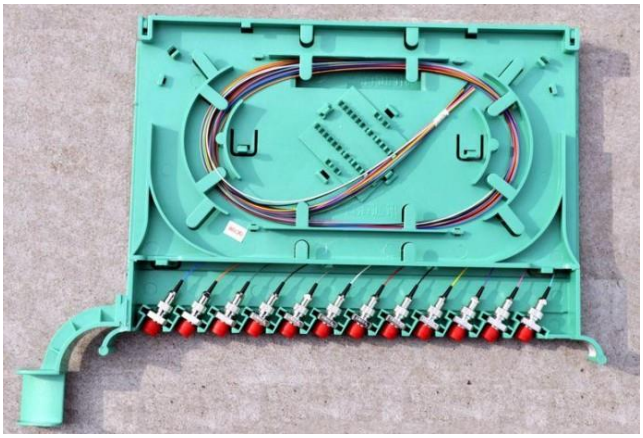
◆Cabinet: Telcordia GR-3125, In-house qualified
◆SC/APC Cable Assemblies and Adapters: GR-326, Third party qualified
◆MPO Cable Assemblies and Adapters: GR-1435 and GR-326, Third party qualified
◆Fan-outs: GR-2866, Third party qualified

1.3. FEATURES

◆Single Door Design (Front Accessible only), makes it wall mountable
◆Triple point locking arrangement.
◆Housing is robust & rust free.
◆Independent lead-in/out of optical cables. Pigtail and patch cord.
◆New type optical cable fixing structure; flexible fixing manner; increased fixing points.
◆Supports, splitter cassettes (1230x620x330), Max 6 slots

2. PRODUCT SUBCOMPONENTS: SPLICE & DISTRIBUTION MODULES

2.1 pictures





2.2. PRODUCT OPTION

No.	Product Description	Port Density	Product Code	Dimension (mm)	Application
1	Distribution Module	12	V 3.0	25 X 334 X 200	SC,FC, LC and ST adapters

2.3. FEATURES

◆Accomplishing splice and distribution in the same module.
◆Double-layer whirling structure.
◆Each can be used for direct-splice distribution whose splice capability is 24 fibers. However, the distribution is limited till 12 ports with connector.
◆Suitable for inserting installation of adapters SC, LC, LC and FC type etc.
◆30°oblique installation of adapters, preventing eyes from Laser and ensuring the fiber bend radius, suitable for ribbon and non-ribbon optic fibers
◆Preventing fibers from accidental damage by equipment of prevention boards on both sides of the module
◆Can be taken out of the device easily and conveniently.

3. More Specs:

Specs.	HxWxD	Max capacity (c)	Max Cable entry quantities	Max Capacity for direct splice
NCM-FOSC-144C	1230x620x330	144	12	144

INSTALLATION
(FIBER OPTIC SPLICE CABINET)

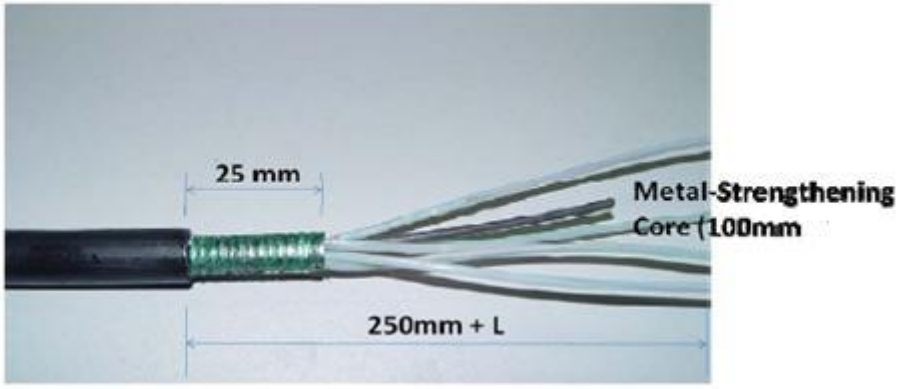
1. Fixed optical cable

◆Before termination of Optical Fiber Cable, it is required to cut holes in the “Base plate” (Cable Coiling Box) & such holes should be aligned with the “Base Plate” in the main FDH unit.



◆Optical cable enters cable coil box from the bottom side, once the coiling is done in cable coil box, than the cable should enter the FDH unit.

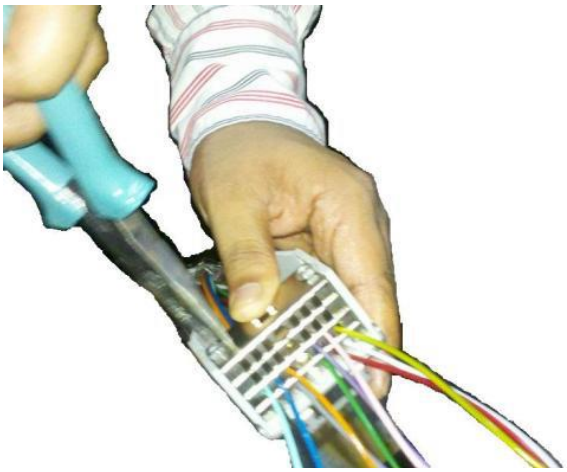
◆Prepare the end/Mid-span on the cable & Clamp the cable at the cable clamping section. Secure the loop of uncut loose tube on the half moons.



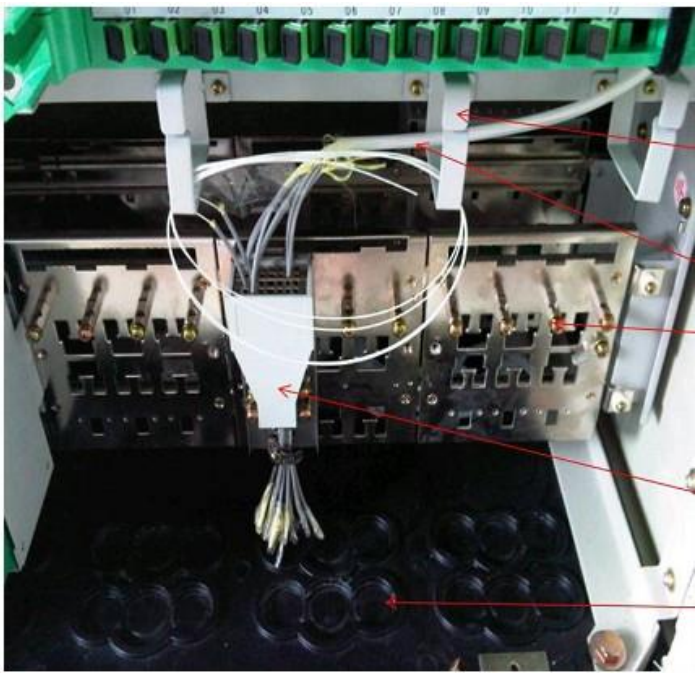
◆Strip the optical cable, with the length of 2.5m (min) and leave metal outer security layer with the length of 25 mm, leave metal-strengthening core with the length of 100 mm.

◆Central Strength Member shall go through the hole of Fiber Guider Kit and fixed accordingly.

◆Use the Fiber Guider kit to Fixed the optical cable with screws.



◆Once all the loose tubes are in place using the Fiber Guider Kit, same shall be mounted on the clamping section.
◆Please note that 1 unit of Fiber Guider Kit can hold up to 24 loose tubes. Hence it is recommended to use 1 fiber Guider kit for clamping of 156F cable (12F X 12LTs) supporting cut/uncut loose tubes using the same kit.



◆Once the Fiber Guider kit is in place, uncut loose can be coiled and stored in the section behind the clamping section.
◆Seal the entrance with Quick Dry clay supplied along with.

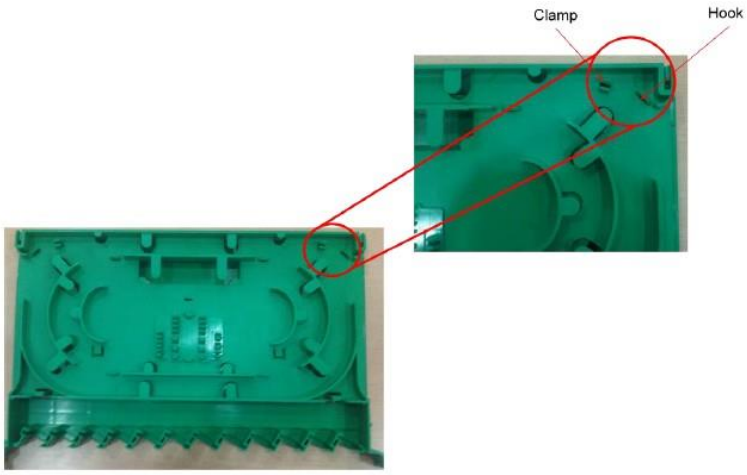
2. Installed Bunched Pigtail



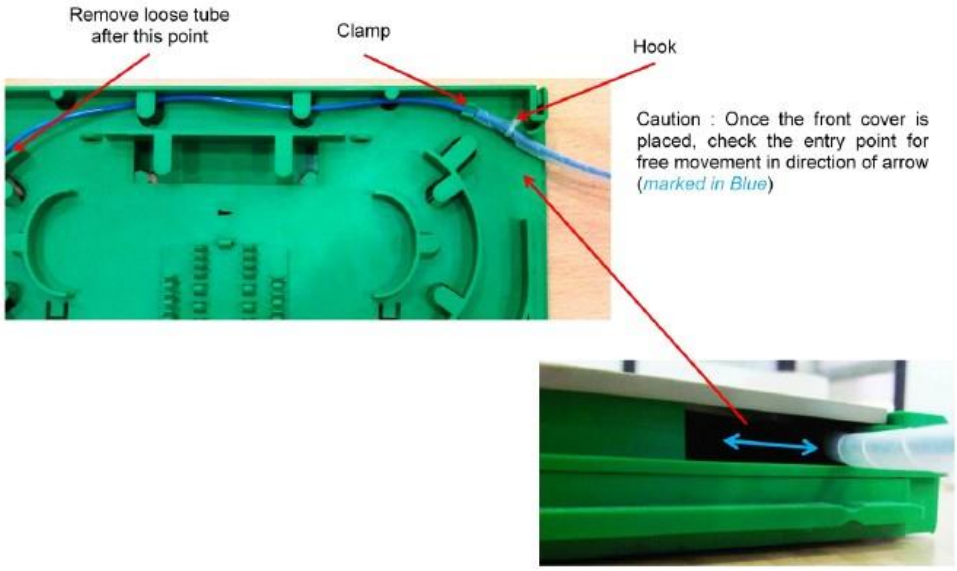


◆ Put adapters into Splice & Distribution Modules.
◆Connected bunched pigtails to adapters, the order from left to right should be: Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Pink and Turquoise.
◆ Store excess length of pigtails in upper layer.

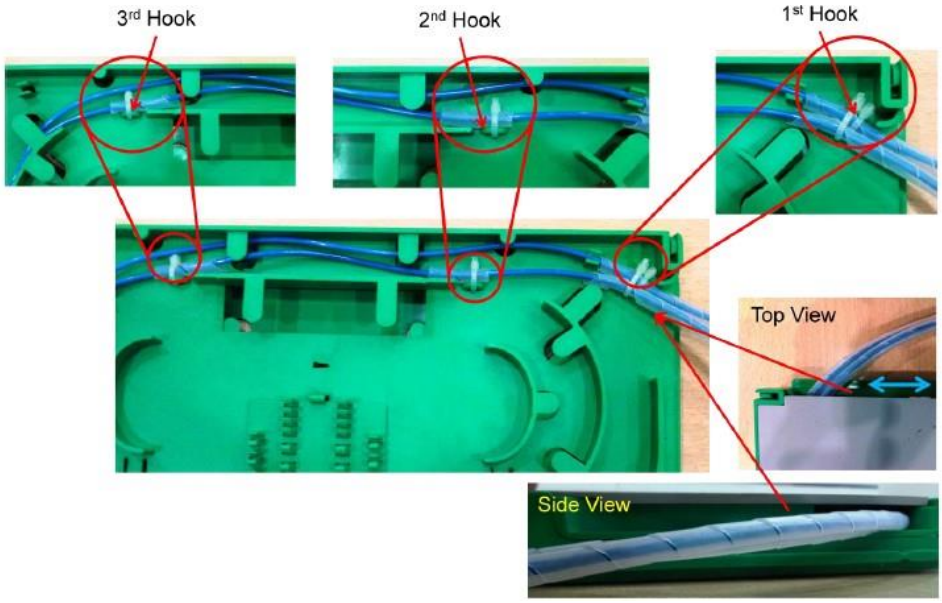
3. Loose Tube Termination on the Splice & Distribution Module.
◆Pull out the Splice & Distribution Module & Fix the incoming loose tube at the hook & clamp as shown below.



◆Fix the transportation tube in the hook using nylon cable tie & pass it thru the clamp. Once the loose tube has reached the 2nd half moon, remove the excess length of loose. Splice the incoming fiber with pre-installed 900 μm pigtail.



◆To terminate a 2nd loose tube in a module already having a loose tube, pulls out the “SDM” & open top cover. Fix the 2nd transportation tube at the hook using nylon cable tie. Moving forward clamp the 2nd loose tube at 2nd & 3rd Hook. Once the loose tube has reached the 2nd half moon, remove the excess length of loose. Splice the incoming fiber with pre-installed 900 μm pigtail.

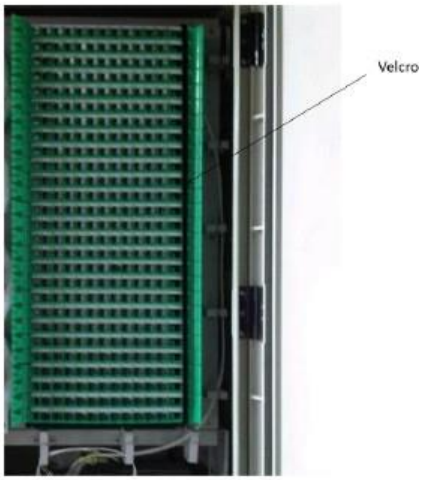


4. Fiber Fusion Splice (Bunched cable pigtail fusion spliced)



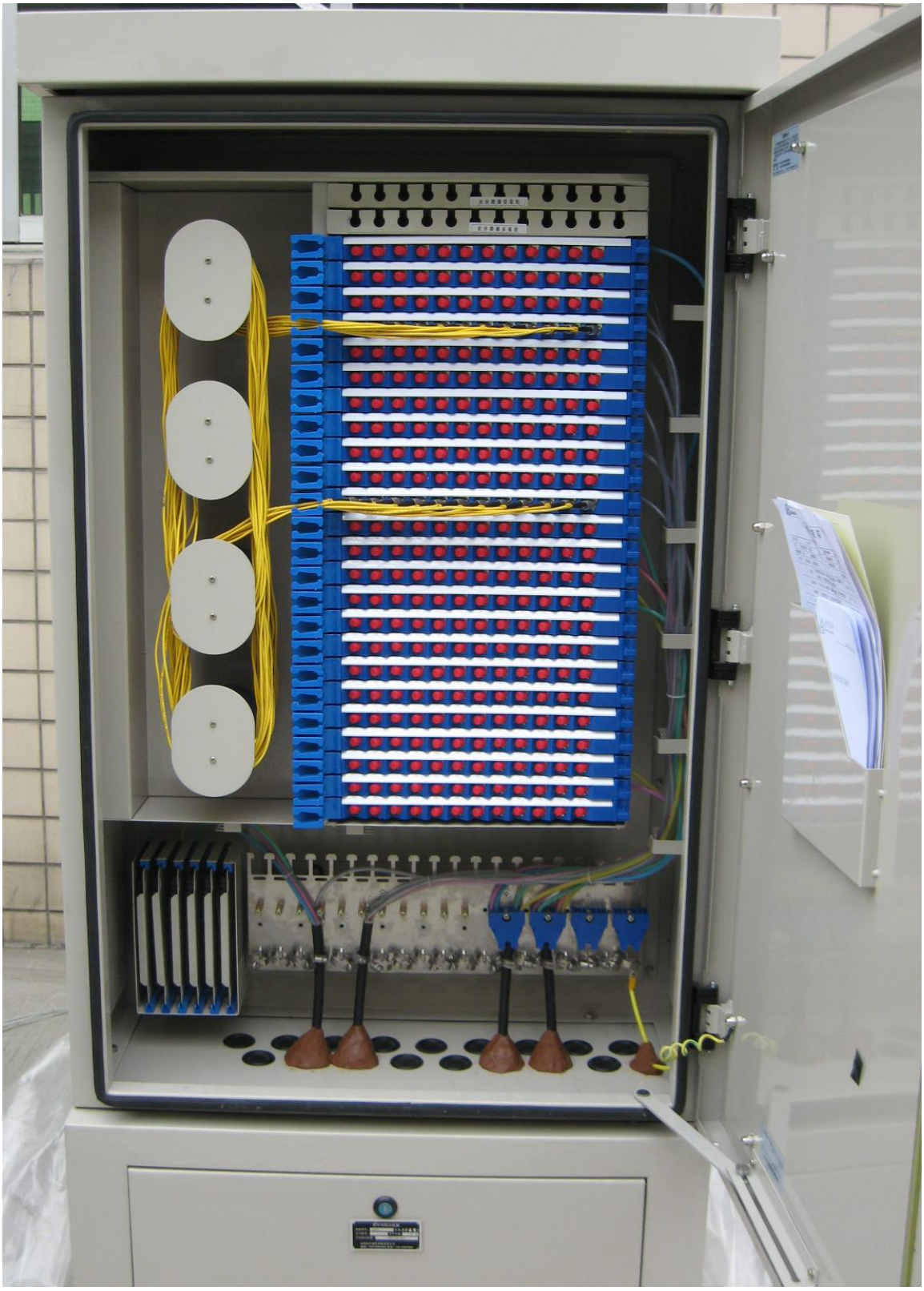
◆Unplug splice& distribution modules, remove the cover of upper layer, and take out pigtails stored in the modules.
◆Fixed bare fibers protection tubes at the ODF (show as legend); leave enough fiber for fusion splicing.
◆Strip fibers.
◆Installed protection tubes, cut pigtails and fibers with special scissors. Then spliced with fusion splicer.
◆After test conformity, move protection tubes to the splicing place, and heat shrink.
◆Fixed protection tubes and splicing fibers in splice& distribution modules. Store excess pigtails in upper layer & place the cover back on the module.
◆Record the details of fibers. Plug modules to originally places.
◆Repeat above-mentioned steps, fusion spliced all of modules from top to bottom.

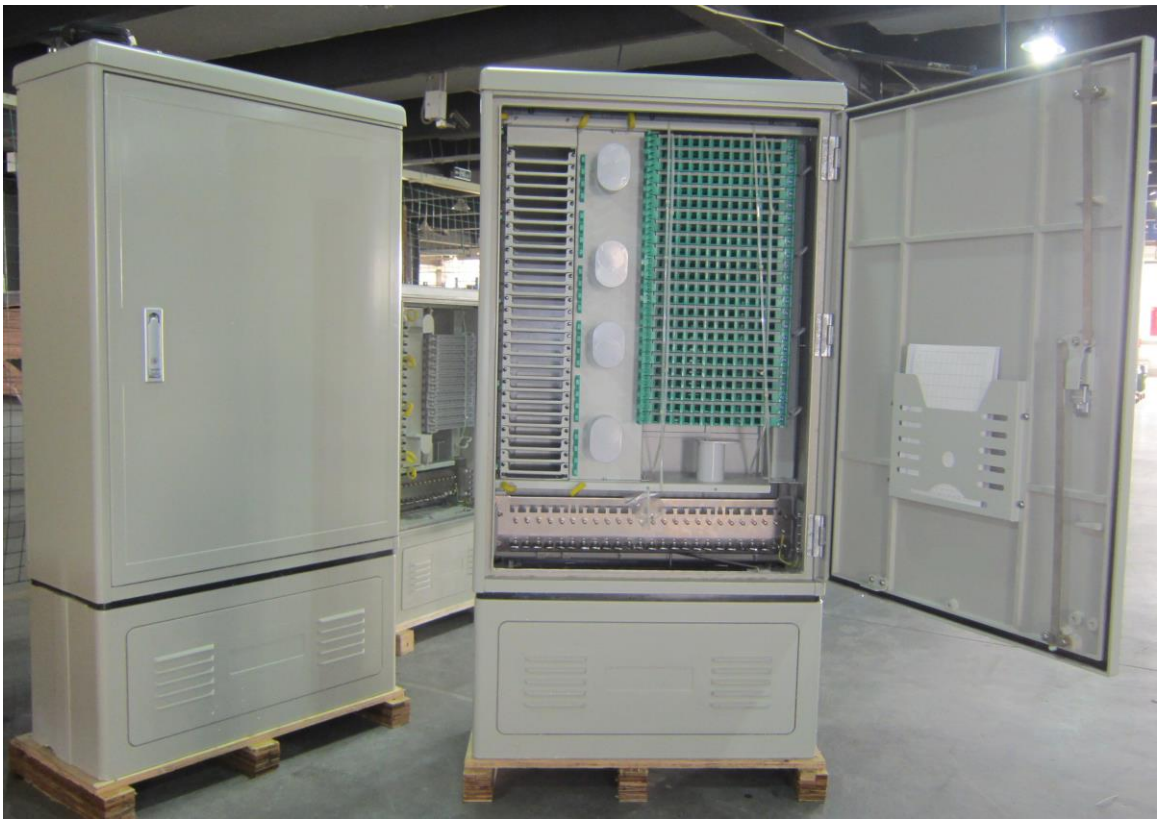
5. Once the Splice & Distribution Module is in place, secure it using the Velcro strip supplied along with as shown below.



6. Dos & Don'ts

◆While installing the FDH unit on the main supporting clamp, make sure the door of unit is locked.
◆Once the cable is fixed on the cable clamp use dry clay (supplied along with) to seal any voids on the cable entry side.
◆Ensure all the loose tubes (going to the Splice & Distribution Module) are routed thru the ◆G-Clips & uncut ones are secured on the half moon & do not move freely.
◆Route all the splitter fan-out on the G-clips before the connection.
◆Ensure the canopy does not create hindrance in the free movement of the front door.
◆Clean the connector required to be patched using tissue paper and IPA.
◆Check the integrity of the gasket, dry clay once every 2nd month.






光缆交




1.
2.
3.
4.
5.
6.