

Simple designs ease handling of high dense fiber distribution systems

In ever increasing requirement of dense FTTX scenario, Fiber distribution system at Central Office side calls for a tremendous amount of splitting of fiber signals combined with high density fiber management. This again increases the space requirement for the system and the high density of fiber routing makes it difficult in properly managing the fibers without causing sharp bends and thus associated extra losses. The main requirements expected in such a system are:

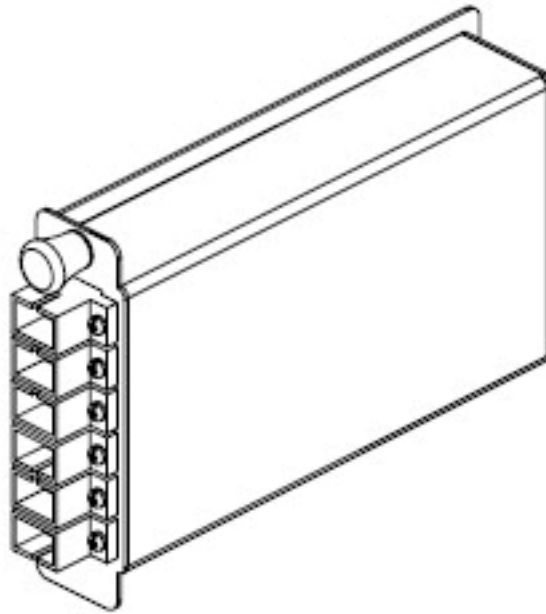
- Capable of housing high density splitters
- Easy installation and removal with no possible occurrence of fiber bending or pinching
- Easy cable management and slack storage facility.
- Minimization of interconnecting patch cord lengths
- Avoid inadvertent bend loss occurrence during fiber routing.
- Front end operation.
- Flexibility of cable entry including lateral entry
- Environmentally low mass design

JAX VAM

JAX VAM, Gen III Fiber Distribution System is configured with the above design objectives. The system consists of pluggable Splitter Modules, Module mounting panel and Fiber Distribution Frame (Rack)

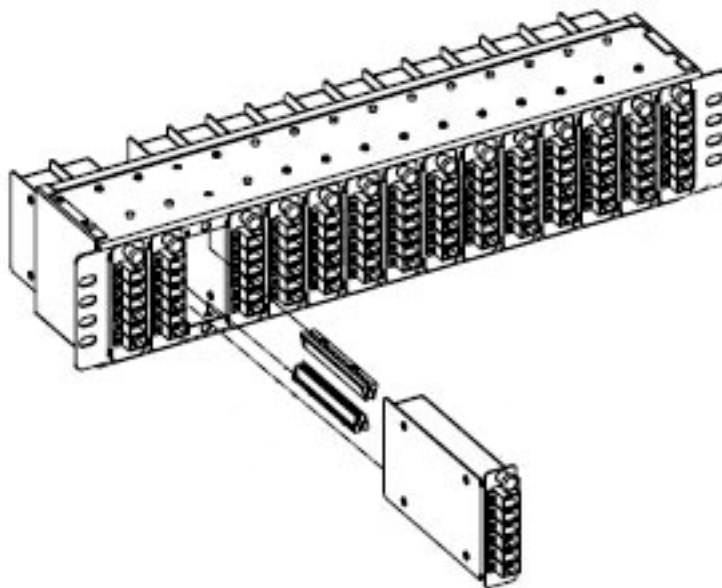
Splitter Module

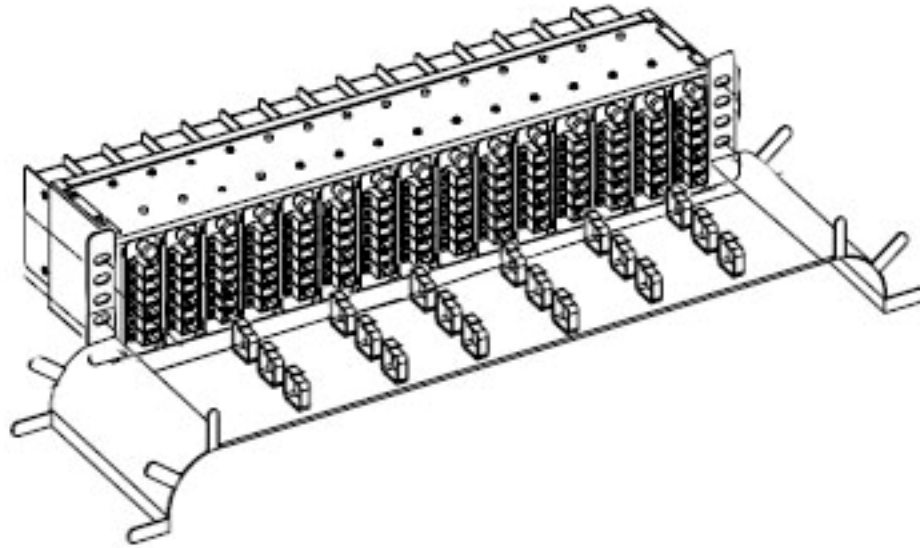
The splitter modules consists of splitters or cross connects. These are specially designed mini modules, and can be loaded with multiple splitters of different configurations/types. Each mini module can be loaded upto 6 SC adapters. These modules can be used for cross connect as well as splitter applications. The tap ports are in black colour for easy identification. These modules are designed with slide ribs which can easily get into the frames. Simple nylatches are used to keep the modules in position.



Module mounting panel

The module mounting panel facilitates mounting of mini modules. Sliding provisions facilitate easy installation of mini modules. These mounting panels are designed as modular, and provision to load with the required number of mini modules. Each module can house 15 mini modules. These are standard 19 inch rack mountable with 2 U heights. Provision exits to mount the front cable tray guide, which facilitates neat cable management.



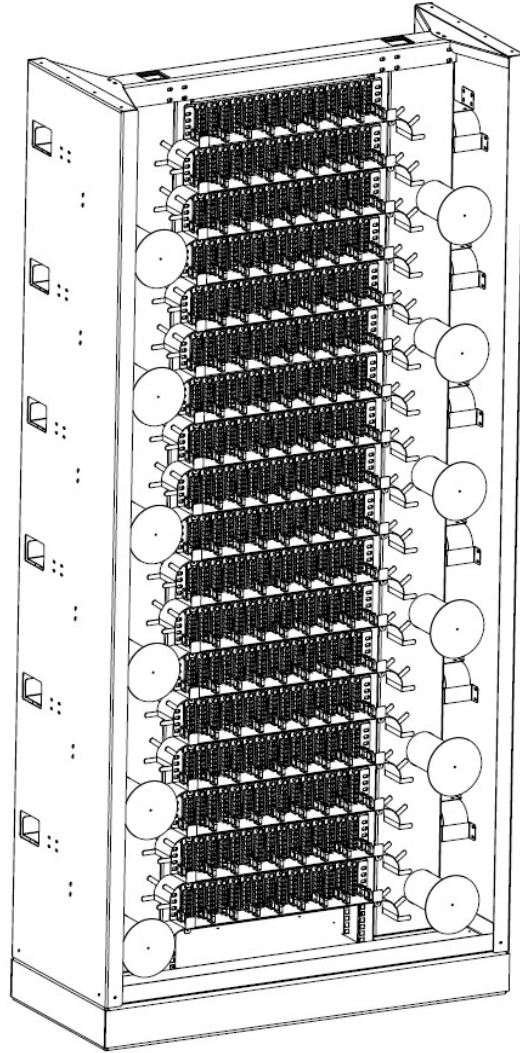


Fiber Distribution Frame

The JAX VAM Fiber Distribution System can handle 1620 cables and can house 540 splitters in 270 compact modules. Fiber congestion and slack storage issues are solved through innovative designs. The bay is capable of raised floor or base mounting.

Salient features of this system:

1. The front end direct loading of module avoiding any swing rack arrangements make the system compact in depth. This also makes direct and easy accessibility of the modules as well as cables, increasing the system manageability.
2. The simple module positioning avoids any inadvertent bending of fibers which can cause losses during maintenance or while adding more functionalities.
3. The double spool solution for slack storage has minimized the cable density and thus easy management of fibers.
4. The proposed sliding module design facilitates the module to be kept in any intermediate position for any repairs or for any monitoring purpose.



5. Direct front access to every module makes it easy to replace any modules without disturbing other modules.
6. The depth of the system is drastically reduced by way of innovative design, to almost depth of the splitter module, thus can locate more systems in the location. The weight of the system also gets proportionally reduced here.

Compatibility through Design

- The JAXVAM system has been designed as compatible to Telcordia GR449 ,GR 326 Standards.

- The JAXVAM belongs to the generation III category of Fiber distribution frames.
- The fiber build up in the horizontal trough do not exceed 2 inches, all troughs are utilized.
- The JAXVAM can easily be integrated with the raceway provided directly above the lineup.
- The interconnection between the different bays is made simple and organized thru design innovation.
- The design is such that choke points do not occur in the troughs.



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