

Flexibility, Usability Key to Selecting Building Entrance Splice Vaults

Protection of Fiber Optics, Scalable Design are Application-Focused Features

Terminating multifiber cable as it enters a central office is a critical step in a fiber optic network application. Put simply, managing fiber at this point enables the efficient distribution of signals to different bays, network elements, and other fiber optic equipment in the central office, while at the same time protecting fiber to ensure ongoing performance.

Choosing a fiber optic splice vault for this application is a matter of selecting a solution that combines the features, usability and flexibility that are crucial for the installation. Here's a brief outline of a few key factors to address:

Flexibility

Not every application is the same. Physical space limitations, location of the vault within a building, and the location of equipment relative to the vault are just a few of the variables that can be present.

Choosing a splice vault that enables the flexibility to meet various requirements is a significant advantage.

Telect's 288-fiber splice vault, for example, features entry and exit ports for cable on each side of the enclosure. Users can install the vault in the best physical location, then utilize this flexibility to enter and exit cable as needed. In addition, the vault's door is reversible to fit the space requirements of the application and make access as easy as possible.

The rear panel of Telect's splice vault also provides multiple options for mounting.

Protection

Secondly, protecting fiber optic cable is a key concern of every fiber distribution application. Telect's splice vault features cable management



Front view of a loaded Telect 288-fiber splice vault.

within the enclosure and each individual splice tray, helping to protect fiber from over-bending, thereby maintaining critical bend radius.

Cable Routing

In addition to protecting fiber, cable management features help to enable simple cable routing into and out of the vault. Accessories such as clamps, cable ties, and PVC tubing help to route and protect large multifiber assemblies. Within the vault, arcs and posts route individual fiber cables and strands to simplify installation and splicing. Ultimately, cable routing features ensure that even a high-density installation will be clean and orderly.

Density

Put simply, in most applications users must attempt to fit as much usable capacity in as little space as possible. Telect's 288-fiber splice vault measures just 32" x 25" x 14" (W x H x D), providing high splice capacity in a compact footprint. With sufficient capacity for most applications, this compact vault helps users to maximize valuable application space, with a non-obtrusive wall-mountable solution.

Scalability

Telect's 288-fiber splice vault can be configured to various capacities based on the quantity of 24-fiber splice trays installed in the enclosure. Users can therefore scale the vault accordingly to meet the requirements of the application. Furthermore, additional vaults can be installed to meet larger capacity requirements, without sacrificing significant application space.



Side view of Telect's 288-fiber splice vault detailing the multiple cable entry and exit ports.

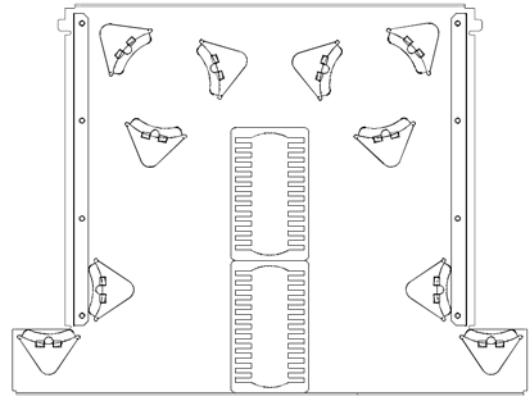
Key Features and Capabilities in Fiber Optic Splice Vaults

Access

All of these features are important to consider, but if the vault's design limits access to trays or impacts the usability of the system negatively, it's likely not a viable option. Telect's splice vault features a simple slide-out tray design for access to each splice cassette. A fold-down working shelf provides a convenient platform for installation and maintenance. The main door locks for additional security. It all adds up to a vault system that provides simple, safe and secure access in an easy-to-use design.

Conclusion

Although there are many splice vault systems available today, not all combine all of the features and advantages detailed above. Choosing a splice vault that emphasizes features, functionality and usability will help to ensure a reliable installation for years to come.



Line drawing (overhead view) of a splice tray from Telect's 288-fiber splice vault. Note the multiple cable routing arcs that help to manage and protect fiber.

Ordering Information

Description	Part Number
288-fiber splice vault	055-4310-0000
Universal splice tray	055-0000-0605
Splice sleeves, 12-pack	KIT-SLEEVES
Bonding/grounding kit	KIT-BOND
Routing accessories kit	015-0010-0010
Wall anchor kit	071-6000-0036
1.13" (2.87 cm) Cable entry panel	055-4300-0001
Compression gland, 1.2 cm-1.6 cm cable	055-4300-0021
Compression gland, 1.4 cm-1.8 cm cable	055-4300-0022