Fiber Optic Patch Panels, Splice Closures and Pedestals

In any fiber-optic system, splices and connectors are crucial to system operation and must be properly housed in protective structures to ensure reliable operation. Completed splices must be organized into splice trays, which are designed to hold specific types of splices as well as to store slack fiber at the proper bend radius. These trays can be housed inside “patch panels,” a general term that refers to a family of panels that provide specific features to a fiber-optic designer.

In addition to true patch panels, which provide only cross-connection, splice trays also can be housed in splice panels, distribution panels, and LAN panels as well as fiber management bays, splice closures, and pedestals. Each type must be properly designed for cable grounding, strain relief, and fiber routing, and should be chosen to best fit the application. Before the proper type of storage can be chosen, one must understand the function and features of each distinct type.

Just as a chain is only as strong as its weakest link, so are the quality and integrity of a fiber-optic system. Only through carefully planning and protection can you keep your optical chain strong.

Fiber Distribution Hubs.........................10:24
Fiber distribution hubs address the many challenges present with cable terminations and OSP optical circuit management. Learn about the capabilities of FDHs and the options available for designers and installers.

Fiber Optic Pedestals.........................5:45
As fiber gets closer to homes and buildings, pedestals provide the last termination point for fiber circuit management before the customer’s facility. Learn about the features and options available, including express entries.

Loose Tube Cable Preparation .............20:36
Learn how to prepare armored and unarmored stranded and central tube cable structures. See how to install fan-out kits and attachment hardware. Learn about mid-entries for trunk and feeder applications, including FTTx.

Tight Tube Cable Preparation ..........10:18
Learn how to prepare distribution, sub-unit distribution, breakout cables and cordage. Watch the process for installing fan-out kits and attachment hardware. Learn how to perform a mid-entry on sub-unit indoor/outdoor distribution cables for protective, alternate route ring and ITS networks.