Optica Technologies Incorporated’s record of technical expertise and professionalism has allowed the company to maintain reseller and customer relationships that span several decades. We have been developing, producing, and marketing high-quality computer products since 1967, and our equipment is installed in some of the largest and most widely recognized data centers worldwide.

Specifically, we provide a wide range of products and services that help facilitate a structured fiber management system. As mainframe data centers move to an ESCON® or a FICON® platform, the fiber infrastructure becomes crucial to an effective and efficient data center environment.

The planning that takes place before any of these infrastructure options is implemented is crucial to developing a connectivity scheme that is modular and that simplifies hardware change and growth.

In the area of mainframe fiber management systems services, Optica’s staff has years of experience providing everything from site surveys to complete installations. Optica’s experienced professionals provide –

- Site assessment, design, planning, and consultation
- Professional installation
- End-to-end system testing
- Cable labeling scheme and documentation
- Technical and standards information
- Order administration and tracking
- Overall project management

Our ability to provide advanced technical expertise in mainframe data center environments is matched only by our high quality fiber management products. Specific mainframe connectivity components we provide are –

- Jumper cables
- Trunk cables
- Patch panels
- Distribution cabinets
- Sub-floor conveyance tray systems
- Additional components, such as –
  - Cable management components
  - Fiber optic testing components
  - Fiber optic adapters and couplers
  - Bus and tag components
More information on these components is provided in this document, and on Optica’s website, www.opticatech.com.

**Mainframe Jumper Cables** – Optica Technologies Incorporated provides factory assembled and tested fiber optic jumper cables terminated with the industry-standard connector style of your choice including all of the Small Form Factor (SFF) connectors. Various connectors (shown below) can be mixed to create hybrid jumper cables. Virtually all cable and connector styles are available to support your ESCON® and FICON® cabling environments. The photos below show the various fiber optic connectors available for zSeries computing environments.

More information about ordering mainframe jumper cables is available at www.opticatech.com.

**Mainframe Trunk Cables** – Optica Technologies Incorporated provides customized multifiber trunk cables terminated with industry-standard connectors to meet your connectivity requirements for ESCON® and FICON® environments.

The most common trunk terminations include ESCON® Duplex, SC Duplex, ST, MTP®, LC Duplex and MT-RJ in a 36 Fiber/18 Channel or 72 Fiber/36 Channel configuration. Optica Technologies Incorporated can custom label trunk cables to match your current labeling methodology or consult with you to design a labeling format for your specific environment. To simplify installations, Optica also offers an industry-unique hexadecimal trunk labeling scheme (0-F) that matches the channel architecture of the mainframe and/or directors. When hex-labeled trunks are used in conjunction with our hex-labeled patch panels within the ESCON® backbone, the CPU and/or director channel interfaces are effectively extended out to the main zone for simplified "patching" and reconfiguration.

Trunks can be delivered upon request with an extended breakout designed to accommodate the larger "spread" that may be required for CMOS CPUs or some director applications. The extended breakout, commonly referred to as a "CMOS breakout", is available in 9 ft., 12 ft., 20 ft., or any other specified lengths.

Fiber Distribution Patch Panels – As a full-service provider of Mainframe Fiber Management Systems (FMS), Optica Technologies Incorporated offers a wide variety of fiber distribution patch panels to meet connectivity requirements for ESCON® and FICON® environments.

Unique to the industry, our patch panels incorporate cable management hardware as a standard feature. Each panel has two strain relief arms with a rubberized surface and Velcro® strap that combine to grip a bundle of jumper cables, routing them to either side of the cabinet, while relieving all of the strain from the jumper cable connection and helping ensure the integrity of jumper cable connections.

On the back side of the panel, integrated releasable cable clamps secure the incoming trunks and assist with organization of the trunk cable. A removable rear cover protects the incoming trunk connections on the back of the patch panel.

Optica has simplified patch panel port labeling in an ESCON® or a FICON® infrastructure. We label ports individually in hexadecimal format, exactly as in the IBM® mainframe or ESCON® Director channel architecture.

In addition to Optica Technologies Incorporated Fiber Distribution Patch Panels, we provide products from the following manufacturers –

- Siecor / Corning
- Infineon / LoDan
- Lucent / Avaya
- Methode / Statos Lightwave
- ADC
- Panduit
- Computer Crafts
- IBM FTS Products

Mainframe Fiber Distribution Storage Cabinetry – As fiber optic technology plays an ever-increasing role in data center communications, the ability to effectively plan for, manage and maintain the growth of your fiber infrastructure gains significance. With that in mind, Optica Technologies Incorporated has designed a fiber optic distribution cabinet ideally suited for a modular fiber optic distribution system.

The cabinet ships unassembled in custom-made packaging for economical transportation and pre-assembly storage. Cabinet assembly is simple and can be completed on-site in a matter of minutes.
The dual smoked Plexiglas front doors are attractive and highly efficient. Although they can be easily removed, the half-width dual doors require less clearance, and if left on, are far more convenient while working with patch cables between and among adjacent cabinets in a main zone.

Standalone Cabinet

In addition to our own cabinets, we provide products from the following manufacturers:

- Knurr
- Great Lakes Cabinet Company
- Rittal
- EDP (Engineered Data Products)
- SWDP (Southwest Data Products)
- CPI (Chatsworth Products, Inc.)
- AMCO Engineering Company
- H&H Industrial Corporation