SOLUTIONS & SERVICES

Cable Assemblies • Custom Optical Products • Fiber Optic Cable • Wireless Access Panels & Enclosures • Fusion Splicers • Test Equipment • Consumables Hand Tools • Copper Cabling • Networking Electronics • Consulting & Design Subcontract Support • Project Management • Integration • CFOT® Training Programs Network Video • Ethernet Lighting • Data Center Solutions • Installation Services

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FiberNext is an innovated fiber optics technology company providing custom solutions, products, technical training and value-added services across the United States. FiberNext is a market leading distributor of thousands of networking components, equipment and tools. We partner with leading manufacturers in the industry to supply the latest technology solutions. In addition, we offer extensive fiber optic installation services and manufacture custom cable assemblies to provide unique customer-driven solutions.
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Cable Assemblies

FiberNext is your source for fiber optic assemblies and custom interconnect products. We have been manufacturing quality fiber optic cable assemblies since 2003. We offer quick turnaround time on customized assemblies to meet demanding project schedules.

Patch Cords

Fiber optic patch cords are commonly used for all interconnection applications. Available in plenum or riser style jacket with either simplex or duplex fiber. We provide a wide variety of custom termination capabilities, fiber types and lengths to meet your specific needs.

Patch Cord Examples:

- 3 Meter, Duplex, Multimode 62.5um, SC-ST
- 5 Meter, Duplex, Single-mode, LC/APC-SC APC
- 3 Meter, Duplex, Multimode, OM3, LC-LC

Pigtails

FiberNext fiber optic pigtails are available with single-ended pre-terminated buffered fiber commonly used for splicing into patch panels. Pigtails can also be made with multifiber, jacketed cable that are often referred to as “fanout”, “breakout”, “distribution tails” or “whips”. Pigtails are split into 2, 4, 6 or 12 fiber sets.

Pigtail Examples:

- Jacketed Ribbon Pigtail, 3 Meter, 12 Fiber, Single-mode, SC
- 900um Buffered TIA Colored Pigtail, 2 Meter, 12 Fiber, Multimode, SC
- Jacketed Distribution Pigtail, 3 Meter, 12 Fiber, Single-mode, SC/APC
- Loose Tube Pigtails, OSP PE Back, 100 FT, 6 Fiber, Single-mode SC APC
MPO/MTP Assemblies
MPO patch cables are becoming increasingly popular, especially for data center applications wherein parallel transport configurations utilize between 8-24 strands of fiber to transmit 40 and 100 Gigabit Ethernet. The most common MPO ferrule types are 12 strand or 24 strand and they come in either male (with guide pins) or female (with guide sockets) gender. In addition, Single-mode MPO ferrules are typically angled polish (APC), whereas Multimode connections are Flat or Physical Contact (PC) polished.

MPO Assemblies Examples:

LC Uniboot Assemblies
LC Uniboot assemblies offer a more compact design when compared to traditional duplex zip cord assemblies. This unique assembly uses a round simplex style jacket that contains two x 250um fibers. The LC connector housing has a single boot, terminated on to the single jacketed two-fiber cable. LC Uniboot assemblies minimize cable management to half the space used by conventional assemblies. Uniboot assemblies are a great solution for high-density patching applications.

Available in Single-mode and Multimode 50um fiber in lengths 1 to 6 meters.
Cable Assemblies

Multi-Fiber Assemblies
FiberNext manufactures a wide variety of multi fiber and longer length assemblies for various applications. We use indoor/outdoor Plenum rated cable, which is extremely versatile and allows assemblies to be installed in virtually any environment. Standard distribution style cable in either Riser (OFNR), Plenum (OFNP), Polyethylene, Tactical or LSZH is also available. The assemblies can be ordered with pulling eyes, protective netting, Kellems® grips, furcation tubing, breakout kits or whatever your application requires. Any connector and fiber type can be used.

Multi-Fiber Assemblies Examples:

Distribution Cables
Ruggedized Cables
Termini

Multi-Fiber On-Reel
Ribbon-Fiber On-Reel w/ Eyes
**Specialty Fiber Optic Assemblies**

FiberNext offers a wide variety of specialty assemblies designed to meet demanding and unique applications. Our expertise includes tactical assemblies spooled on deployable drums, node drop cables, metalized interlock armored assemblies, expanded beam, flat drop FTTx, broadcast cables and military style harnesses such as D38999. FiberNext has the ability to make virtually any specialty assembly around your requirements. We also can provide engineering and design services to meet your unique application.

**Below are examples some of the unique assemblies we provide.**

- **Optical Flat Drop Cable Assemblies**
- **Heavy Duty Breakout Assemblies**
- **Tactical Deployable Cable**
- **Heavy Duty Breakout Assemblies**
**Cassettes and Modules**

**FiberNext Din-Rail Mountable Fiber Optic Patch Modules**

The FiberNext family of Din-Rail mountable fiber optic patch modules solve many of the problems encountered when trying to adapt conventional fiber optic patch panels for use in power, control, SCADA and/or industrial cabinets. These modules mount directly to conventional Din-Rail, which allows it to maintain a minimal footprint, keeps the patching in close proximity to the active equipment it serves and minimizes cable management in the cabinet.

These modules can be configured with any connector style (including LC, LC/APC, SC, SC/APC, ST, FC and others) and any fiber type such as Single-mode, 50 or 62.5um Multimode and common industrial fiber types such as 100/140um or 200/230um. The fiber connections can be pre-fabricated and tested in a lab, or the modules can be purchased empty and terminated in the field using traditional pigtails or common field connectors.

**Unloaded Din-Rail Patch Module PN: PPD-UN001-CFO**  *Requires LGX adapter plate on page 13.

Please call Sales at 603-226-2400 for assistance selecting the proper configuration when ordering.

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**Part Number Configurator**

<table>
<thead>
<tr>
<th>Fiber Type:</th>
<th>Cable Type:</th>
</tr>
</thead>
<tbody>
<tr>
<td>T = MM 200/230um</td>
<td>L = Loose Tube PE</td>
</tr>
<tr>
<td>M = MM 62.5um OM1</td>
<td>I = Loose Tube In/Out</td>
</tr>
<tr>
<td>F = MM 50um OM2</td>
<td>T = Tight Buff In/Out</td>
</tr>
<tr>
<td>L = MM 50um OM3</td>
<td>P = Tight Buff Indoor</td>
</tr>
<tr>
<td>G = MM 50um OM4</td>
<td>R = Ribbon</td>
</tr>
<tr>
<td>S = Singlemode (BIF)</td>
<td></td>
</tr>
</tbody>
</table>

**Available Connectors:**

<table>
<thead>
<tr>
<th>FA</th>
<th>FC/UPC</th>
</tr>
</thead>
<tbody>
<tr>
<td>LC/UPC</td>
<td>LC/APC</td>
</tr>
<tr>
<td>SC/UPC</td>
<td>SA/SC/APC</td>
</tr>
<tr>
<td>ST/UPC</td>
<td>L</td>
</tr>
</tbody>
</table>

**Length Units:**

<table>
<thead>
<tr>
<th>F</th>
<th>Feet</th>
</tr>
</thead>
<tbody>
<tr>
<td>M</td>
<td>Meters</td>
</tr>
</tbody>
</table>

**Pre-terminated indoor/outdoor SM Example:**

PN: PPD-ST06SC-0300F  
Din Panel SM 6F SC In/Outdoor Pigtail 300’

**Pre-terminated outdoor only SM Example:**

PN: PPD-SL12SC-0300F  
Din Panel SM 12F SC Loose Tube Pigtail 300’

**Pre-terminated outdoor only MM Example:**

PN: PPD-ML12ST-0200F  
Din Panel MM OM3 50um 24F LC In/Outdoor Pigtail 100’

**Pre-terminated indoor/outdoor MM Example:**

PN: PPD-LL24LC-0100F  
Din Panel MM OM3 50um 24F LC In/Outdoor Pigtail 100’
**FiberNext LGX MPO Cassettes**

The FiberNext brand of MPO/MTP Cassettes are fully pre-terminated modules for “plug-and-play” networking. These cassettes fit any LGX-118 based patch panel frame as well as Corning Cable Systems™ patch panels and frames when using our adapter bezel. These cassettes fanout multi-fiber MPO/MTP connectors to simplex or duplex style connectors such as LC or SC. Our entire family of low-loss MPO/MTP cassettes are finished with a durable powder coat and are available in Method A, B or C wiring. These cassettes are the perfect solution for conventional data center cabling including 10 and 40G networks, or can be used anywhere simplified plug-and-play ease of installation is preferred. The cassettes all offer low-loss MPO/MTP output connections and Telcordia complaint UPC or APC terminations for the single-fiber input connections.

Please call Sales at 603-226-2400 for assistance selecting the proper configuration when ordering.

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**Part Number Configurator**

LGX 118 Based MPO Module

**Fiber Type:**
- M = MM 62.5um OM1
- F = MM 50um OM2
- L = MM 50um OM3
- G = MM 50um OM4
- S = Singlemode BIF

**Fiber Count:**
- 12 or 24

**Connector “IN”:**
- M1 = 1 x 12F MPO
- M2 = 2 x 12F MPO

**Connector “OUT”:**
- TIA-568-B.1-7
- Method:
  - A = Method A
  - B = Method B
  - C = Method C

**FiberNext LGX-118 MPO Cassette Part Number Examples:**
- PN: PPM-MPO-M12M1ASC: Single MPO(M)-SC/UPC OM1 LGX118 Cassette
- PN: PPM-MPO-L12M1ALC: Single MPO(M)-LC/UPC OM3 LGX118 Cassette
- PN: PPM-MPO-G24M2ALC: Dual MPO(M)-LC/UPC MM 50um OM4 LGX118 Cassette
- PN: PPM-MPO-S24M2ALA: Dual MPO(M)-LC/APC SM LGX118 Cassette
**FiberNext Pre-Terminated Cassettes**

Using our LGX118 compatible splice-in cassette solutions, installers would define the type of fiber required, length of cable needed, the connector style and FiberNext would pre-fabricate the complete assembly as a pigtail. Upon delivery to site, the user would then pull the stub end through the pathway and splice it at a splice junction. The cassette would be installed into an LGX118 compatible wall or rack mount panel. This is the highest quality and fastest termination available in the field today for high density applications.

Please call Sales at 603-226-2400 for assistance selecting the proper configuration when ordering.

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**Part Number Configurator**

- **LX 118 Module**
- **Fiber Type:**
  - T = MM 200/230um
  - M = MM 62.5um OM1
  - F = MM 50um OM2
  - L = MM 50um OM3
  - G = MM 50um OM4
  - S = Singlemode (BIF)
- **Cable Type:**
  - L = Loose Tube PE
  - I = Loose Tube In/Out
  - T = Tight Buff In/Out
  - P = Tight Buff Indoor
  - R = Ribbon
- **Length Units:**
  - F = Feet
  - M = Meters
- **Available Connectors:**
  - FA = FC/APC
  - FC = FC/UPC
  - LA = LC/APC
  - LC = LC/UPC
  - SA = SC/APC
  - SC = SC/UPC
  - ST = ST/UPC

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**Pre-terminated outdoor only Loose Tube MM Example:**
- PN: PPM-ML06ST-0075F
- ST 6-Fiber MM 62.5um LT Pigtail Black, 75Ft

**Pre-terminated indoor/outdoor MM Example:**
- PN: PPM-MT12SC-0150F
- SC 12-Fiber MM 62.5um Pigtail Orange, 150Ft

**Pre-terminated indoor/outdoor SM Example:**
- PN: PPM-ST12SC-0025F
- SC 12-Fiber SM Pigtail Yellow, 25Ft
Fiber Patch Panels

Wall Mount Fiber Panels
Our strength is making sure the end user has the right product for their connectivity application, either from our standard product offerings or by quickly and economically developing just the right configuration of enclosure, module, assembly or combination that will meet the need. Our LGX-based family of interchangeable products utilizes a rugged gauge of steel, a quality powered coat finish and can be fully configured to meet your needs. Below are some of the brands and examples of Wall Mount Panels we offer:

Wall Mount Patch and Splice Panel Examples:

PN: PPW-UN014- OCC
6-12F Zone Box Splice/Term Unloaded Black

PN: PPW-UN006-AFL
WME02E 12-24F Splice/Term Unloaded Black, Lock

PN: PPW-UN005-AFL
WME04E 24-48F Splice/Term Unloaded Black, Lock

NEMA Rated Wall Mount Patch and Splice Panel Example:

PN: PPW-UN002-AFL
24F NEMA 3 Splice/Term Unloaded Plastic

For Adapter Plate examples see page 13.
Rack Mount Fiber Panels

Splice-on connector technology allows users to install a fusion spliced connector directly to a fiber strand without the use of traditional pigtail, splice trays and related cable management, saving space, time and money. FiberNext is your resource for in-stock splice-on connectors, support and training. Below are examples of some of the brands and Rack Mount Panels we offer.

Rack Mount Media Bar Examples:

![Media Bar Examples](image1.png)

- **PN: PPR-UN046-FNX**
  1RU Mounting Platter 3 LGX Plates, 8”D, Open Slot

- **PN: PPR-UN006-MLK**
  1RU Mounting Bar, Black, Holds 3 LGX Style Plates

Rack Mount Patch Panel Examples:

![Patch Panel Examples](image2.png)

- **PN: PPR-UN044-FNX**
  1RU Splice/Term Unloaded Black Holds 3 Plates

- **900um Buffered TIA Colored Pigtail, 2 Meter, 12 Fiber, Multimode, SC**

- **Jacketed Distribution Pigtail, 3 Meter, 12 Fiber, Single-mode, SC/APC**

- **Loose Tube Pigtails, OSP PE Back, 100 FT, 6 Fiber, Single-mode SC APC**

NEMA rated Rack Mount Patch Panels are also available. For Adapter Plate examples see page 13.
Patch Panel Accessories
FiberNext offers an extensive variety of connector adapters, adapter plates, splice trays and splice tray accessories to meet all of your patch panel applications. Below are some examples of the products we carry. Call Sales at 603-266-2400 for support with your specific needs.

Connector Adapter Examples:

LGX Adapter Plate Examples:

Fusion Splice Tray Examples:

Splice Tray Accessories Examples:
Data Center Solutions

FiberNext offers data center connectivity and solutions from several manufacturers to meet all your data center needs. Below are a couple of examples of what we offer.

An emerging trend in data center design is modular Micro Data Center, which provides cost effective, energy efficient data center service with a rapid deployment time frame. Canovate® Micro Data Center solution is the right and cost effective answer for this increasing demand. Canovate® Micro DC solution is an integrated data center solution that incorporates Racks, UPS, Cooling, Fire Suppression, PDU and Environmental Monitoring System (EMS) in a compact single platform.

IT professionals rely upon CANOVATE for leading-edge solutions that incorporate innovative technologies.

Data Center Solutions Examples:
- Maxi Data Center
- Mini Data Center
- Micro Data Center
- Mobile Data Center

Data Center Products Examples:
- Cooling Systems
- Power Solutions
- Environmental Monitoring
- Security & Safety Solutions
- Fire Suppression
- Power Distribution Units

AFL XFM®-HD High Density Patch Panels deliver unsurpassed density and fiber management to high-performance, high density networks. An innovative, integrated cable management design provides end users with complete organization and control of entering and exiting fibers while requiring virtually no external cable management, all while providing near 100% rack space utilization.

AFL XFM®-HD Products:
- PN: PPR-UL001-AFL XFM-HD 144 Port LC 1RU Panel Frame (Empty)
- PN: PPR-UL002-AFL XFM-HD 288 Port LC 2RU Panel Frame (Empty)
- PN: PPR-UL003-AFL XFM-HD 576 Port LC 4RU Panel Frame (Empty)
- PN: PPM-LC001-AFL MPO-LC 50um OM3/4 12F Cassette Module Aqua
- PN: PPM-LC002-AFL MPO-LC SM OS1 12F Cassette Module Blue
Network Racks and Cabinets

A common element of most every networking project are the racks and frames. FiberNext provides metal panel and cabinet products from OCC, Canovate® and many others. We even have the ability to customize many panel and cabinet products, let us know what features you need and we’ll design a solution.

Free Standing Racks and Cabinets Examples:
- Canovate 19” Steel Network Rack
- 36RU Standard 19” Open Bay Rack
- PN: PPA-RK004-OCC

Wall Mounted Racks and Cabinets Examples:
- Canovate Slim Line Wall mount Cabinet
- 12RU x 25”D Wall Mounted Swing Open Bay Rack
- PN: PPA-RK007-OCC

Rack and Cabinet Accessories Examples:
- Cable Organizers
- Shelving
- Power Distribution Units
- Slotted Finger Duct

Contact us for a customized solution!
Splice Enclosures and OSP

Splice accessories and outside-plant (OSP) enclosures and pole line hardware can be complicated to order and configure properly. Here at FiberNext, our customer service team can assist you with the right product for your application by offering dozens of manufacturers of splice trays, splice cases, ADSS hardware, pole line hardware, cable storage shoes and more. With products from AFL, Hubbell and others, FiberNext has the right products in stock to help you with splicing in OSP environments. Below are examples of some of the items we carry.

Rack Mount Media Bar Examples:

- PN: SPL-EN001-AFL
  LG250 96-Fiber Butt Style Splice Enclosure

- LightGuard® 500 Aerial Weathertight Fiber Optic Splice Closure

ADSS Hardware Examples:

- ADSS In-line Trunnion Assembly .424
- ADSS Down Lead Cushion
- ADSS In-line Trunnion Assembly .424
- ADSS Preform Cable Grip w/ Clevis .424
- Fiber Storage Units for ADSS Fiber Optic Cable
Fiber Optic Test and Inspection

FiberNext works with the leading manufacturers of fiber optic test and inspection products to bring you the equipment that you need to get the job done. From troubleshooting to full network documentation we can get you the equipment that meets your needs. Here are examples of some of the types of products we offer.

**OTDRs Examples:**
- MAX-715B

**Loss Test Kit Examples:**
- SMLP5-5

**Fiber Indentifies and Visual Fault Locators**
- iOLM
- FlexScan

**Inspection Scope Examples:**
- Contractor Series
- ODM
- Senko Fiber Checker
- FOCIS Flex
- VS300 View Safe Video Microscope

**Inspection Scope Examples:**
- VF12 HILite
- ODM
- FIPT-400-MF - automated multifiber inspection solution
**OTDR Launch Cables**

**Fiber Rings**

Fiber Rings are compact launch/receive cables designed to measure the insertion loss of the near-end and/or far-end connection of a fiber optic link using an OTDR. Both a launch and receive cable are required to measure complete link loss of a fiber with an OTDR. A launch cable, which connects the OTDR to the link under test, reveals the insertion loss and reflectance of the near-end connection. A receive cable, which connects to the far-end of the link, reveals the insertion loss and reflectance of the far-end connection. Launch and receive test cables can range from 150 m to 1 km (or longer) in length. Because very long test cables are impractical to transport and use, AFL offers coiled lengths of 50um multimode, 62.5um multimode, or single-mode fiber conveniently packaged in compact rings.

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**Fiber Ring Part Number Configurator**

- **Riber Ring**
- **Fiber Type:**
  - S = Singlemode (BIF)
  - L = MM 50um O3M
  - G = MM 50um OM4
  - M = MM 62.5um OM1
  - F = MM 50um OM2
- **Length Units:**
  - 60M (MPO Only)
  - 150M
  - 500M
  - 1000M
- **Availble Connectors:**
  - FA = FC/APC
  - FC = FC/UPC
  - LA = LC/APC
  - LC = LC/UPC
  - SA = SC/APC
  - SC = SC/UPC
  - ST = ST/UPC
  - MP = MPO (M)
  - MG = MPO (F)

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**Multimode 62.5 um, SC-SC, 150 Meter**
- PN: TST-FR-M-SC-SC-0150

**Single-mode, FC-SC, 150 Meter**
- PN: TST-FR-S-FC-SC-0150

**Multimode 50 OM3 um, LC-SC, 150 Meter**
- PN: TST-FR-L-LC-SC-0150
FiberNext MPO Test Switches

The FiberNext MPO Test Switch allows users to quickly and easily test discrete strands within 12 and 24 MTP or MPO cables. Continuity can be verified by simply attaching a VFL to the switch input port using a fiber optic patch cord and scrolling through the fiber count. Cables can be tested for optical loss and ORL by connecting the switch to an OTDR using a patch cord, with a second cable (or “launch cord”) which would be patched to the MPO cable under test. While testing, the user can analyze the optical performance on strand one, store the test report and simply click the “fiber up” button to increment the test without having to physically disconnect, speeding test times. To further speed testing, a receive cable can be connected to the far end to accomplish Framed Link Testing as defined in ISO/IEC 11801.

MPO Test Switches Available Models:

- TST-5506S-FNX 12-Fiber MPO Switch, Single-mode MPO Angled
- TST-5506M-FNX 12-Fiber MPO Switch, Multimode OM3 50um
- TST-5507MN-FNX 24-Fiber MPO Switch, Multimode OM4 50um

Accessories:

Fiber Multimode OM3 MPO Rings:
- TST-FR-L-MG-MG-0061 MPO(f)-MPO(f) OM3 50um 61 Meters
- TST-FR-L-MG-MP-0061 MPO(f)-MPO(m) OM3 50um 61 Meters
- TST-FR-L-MP-MP-0061 MPO(m)-MPO(m) OM3 50um 61 Meters

12 Fiber Single-mode MPO Rings:
- TST-FR-S-MG-MG-0061 MPO(f)-MPO(f) Single-mode 61 Meters
- TST-FR-S-MG-MP-0061 MPO(f)-MPO(m) Single-mode 61 Meters
- TST-FR-S-MP-MP-0061 MPO(m)-MPO(m) Single-mode 61 Meters

24 Fiber Multimode OM4 MPO Rings:
- TST-FR-G-MG-MG-0046 MPO(f)-MPO(f) OM4 50um 46 Meters
- TST-FR-G-MG-MP-0046 MPO(f)-MPO(m) OM4 50um 46 Meters
- TST-FR-G-MP-MP-0046 MPO(m)-MPO(m) OM4 50um 46 Meters

Switch Mating Adapters:
- ADM-MTP03-SEN MTP Flanged, Key Up to Key Down, Black
- ADM-MTP04-SEN MTP Flanged, Keys Aligned, Gray

OTDR
Launch Cable
MPO Switch
Cable Under Test
Receiving Cable
Fusion splicing technology is the fastest and lowest loss method of joining, terminating and repairing fiber optic cables. Significant advancements in equipment design and technology have made fusion splicers much more durable, user friendly and automated than ever before. FiberNext is proud to offer products from the market dominating splicer equipment manufacturers. From V-Groove and Core Alignment to Mass Ribbon splicing machines, cleavers and accessories FiberNext can provide the tools necessary to get the job done. FiberNext staff members are fully trained on splicing technology and can support our customers with questions and any training needed to get them up and running quickly. Below are examples of some of the products we offer.

**Fusion Splicer Examples:**

[Images of fusion splicers and accessories]

**Fusion Splicer Accessories:**

[Images of accessories]
Connectors and Terminating

FiberNext offers a wide range of pre-polished connectivity solutions as well as fuse on connectors for terminating and repairing fiber strands.

Pre-polished Connectors
FiberNext offers pre-polished connectivity solutions such as the AFL FAST®, Sumitomo Quick® and Senko XP Fit connectors. Pre-polished connectors are available for Single-mode and Multimode fiber in ST, SC, LC and SC/APC connector styles.

For support on choosing the proper solutions related to terminating fiber on your specific project, please contact Sales at Sales@FiberNext.com or call 603-226-2400.
AFL FuseConnect® Connectors and Accessories

Fusion splicing is the fastest method of field terminating and repairing fiber strands, while also providing the best overall insertion and return loss performance. Splice-on connector technology allows users to install a fusion spliced connector directly to a fiber strand without the use of traditional pigtail, splice trays and related cable management, saving space, time and money. FiberNext is your resource for in-stock splice-on connectors, support and training.

AFL FuseConnect® Tools:

- TSPL-AC010-AFL, FuseConnect® MPO Term Kit (for Ribbon Fiber)

AFL FuseConnect® SC Connectors:

- CP6-SC008-AFL, SC Multimode 62.5um Connector Kit 900um Boot
- CP6-SC004-AFL, SC Multimode 62.5um Connector Kit 3mm Boot
- CP5-SC016-AFL, SC Multimode 50um OM2 Connector Kit 2/3mm Boot
- CP8-SA009-AFL, SC/APC Single-mode Connector Kit 3mm Boot
- CP8-SC014-AFL, SC Single-mode Connector kit 900um Boot

AFL FuseConnect® LC Connectors:

- CP8-LC008-AFL, LC Single-mode Connector kit 2mm Boot
- CP5-LC010-AFL, LC Multimode 50um OM3 Connector Kit 900um Boot, Black
- CP5-LC009-AFL, LC Multimode 50um OM2 Connector Kit 2mm Boot

AFL FuseConnect® ST Connectors:

- CP8-ST003-AFL, ST Single-mode Connector Kit 900um Boot
- CP5-ST002-AFL, ST Multimode 50um OM2 Connector Kit 900um Boot

AFL FuseConnect® FC Connectors:

- CP8-FC001-AFL, FC Single-mode Connector Kit 900um Boot
- CP6-FC001-AFL, FC Multimode 62.5 Connector Kit 900um Boot

AFL FuseConnect® MPO Connectors:

- CP8-MP001-AFL, MPO 12F Single-mode Female Bare Fiber Conn Kit
- CP5-MP003-AFL, MPO 12F Multimode 50um OM3 Fem Round Conn Kit

AFL FuseConnect® Fiber Holders:

- CPA-AC123-AFL, 2mm Fiber Holder 60s,70s FH-FC-2000
- CPA-AC124-AFL, 3mm Fiber Holder 60s,70s FH-FC-3000
- CPA-AC122-AFL, 900um Fiber Holder 60s,70s FH-FC-900
Sumitomo Lynx® Connectors and Accessories

Splice-On connectors are simplifying conventional field terminations and improving quality. Let FiberNext show you how to revolutionize your field terminations while simplifying the process!

Sumitomo Lynx® Tools:

- SPL-AC111-SUM  Lynx® Term Kit (used for 2 & 3mm Jacketed Fiber)
- CPA-AC011-SUM  Lynx® MPO Corded Ribbonizing Assembly Platform
- TOL-00101-SUM  Lynx® Connector Assembly Jig

Sumitomo Lynx® SC Connectors:

- CP6-SC007-SUM  SC Multimode 62.5um Connector Kit 250/900um Boot
- CP5-SC009-SUM  SC Multimode 50um Connector Kit 900um Boot
- CP8-SC006-SUM  SC Single-mode Connector Kit 250/900um Boot [F]
- CP8-SC015-SUM  SC Single-mode Connector Kit 900um Boot Loose Tube
- CP8-SA007-SUM  SC/APC Single-mode Connector Kit 2mm Boot [B]

Sumitomo Lynx® LC Connectors:

- CP5-LC003-SUM  LC Multimode 50um OM2 Connector Kit 900um Boot [A]
- CP5-LC008-SUM  LC Multimode 50um OM3 Connector Kit 2mm Boot [C]
- CP8-LC002-SUM  LC Single-mode Connector Kit 250/900um Boot
- CP8-LA001-SUM  LC/APC SM Connector Kit 900um Loose Tube [H]

Sumitomo Lynx® ST Connectors:

- CP6-ST001-SUM  ST Multimode 62.5um Connector Kit 250/900um Boot
- CP5-ST002-SUM  ST Multimode 50um OM3 Connector Kit 250/900um Boot
- CP5-ST001-SUM  ST Multimode 50um OM2 Connector 900um Boot [D]
- CP8-ST006-SUM  ST Single-mode Connector kit 2mm Boot [E]

Sumitomo Lynx® FC Connectors:

- CP8-FC001-SUM  FC Single-mode Connector Kit 2mm Boot
- CP6-FC003-SUM  FC Multimode 62.5um Connector Kit 900um

Sumitomo Lynx® MPO Connectors:

- CP5-MP004-SUM  MPO 12F MM 50um OM3 Male Flat Cable Conn Kit [G]
- CP8-MP002-SUM  MPO 12Fiber SM Male Round Cord Connector Kit

Sumitomo Lynx® Fiber Holders:

- CPA-AC120-SUM  12 Count Ribbon Holder [I]
- SPL-AC142-SUM  250um Loose Tube Fiber Holder (Left Side) [J]
- SPL-AC116-SUM  900um Single Fiber Holder (Pair) [K]
Fiber Optic Cable

FiberNext carries an extensive line of fiber optic cables for multiple applications including simplex/duplex assembly cordage, distribution, sub-unitized distribution, breakout, and ribbon with riser (OFNR/OFCR) and plenum (OFNP/OFCP) jacket styles. Some popular cable types are described below.

**Simplex & Duplex Cables** are used for interconnect applications such as fiber patch cords, assemblies and launch reels.

**Distribution Cables** are tight buffered cables used in intrabuilding/interbuilding applications and data centers. These cables are the most typical premise choice, as the outer diameter is small, flexible and user friendly. Fiber Counts range from 2F to 144F typically. OFNR, OFNP, LSZH and Tactical Polyurethane are available.

**Interlocking Armor Cables** provide extra protection against damage in areas that are subject to harsh environment. By using interlocking armor, one saves the cost of installing both conduit and fiber by only having one pull. The diameter is smaller, so there is less pathway fill. There is an extruded outer jacket which provides identification and makes installation easier and carries the same flame rating as the cable within it.

**Breakout Cables** are typically used as direct interconnections between active devices. The cable can be brought to one distribution point and then breakout duplex drops are run to the fiber outlets. This type is different from standard distribution, as each fiber is surrounded by its own Kevlar layer. This design adds a layer of protection for use in a more rugged environment. 2.0mm, 2.5mm, 2.9mm subunits are available.

**Ribbon Cables** are used in the highest density applications including MPO uses in data centers and trunk cables for outside plant telecom and municipal cabling systems where space savings and high fiber count are critical factors.

**Loose Tube Cables** are most commonly used outdoors although there are some interconnect uses for high density micro-core loose tube cables within data centers. Loose tube cables for outside plant (OSP) applications are very robust and are built in a wide variety of styles including flat drop cables, typical/stranded, uni-tube, armored/direct-burial, armored paver cable, figure-8 self-supporting, all dielectric self-supporting (ADSS), ribbon, optical ground wire (OPGW) and more. These cables can also vary from gel flooded core/tube, to dry core/gel filled tubes, to dry core/dry tube designs, which offer the fastest termination and easiest handling for field technicians.
Cable Management and Labeling

When properly installing fiber optic cables, it’s inevitable that users will need to bundling, securing and organizing cables. FiberNext offers products such as VELCRO® Brand ONE-WRAP and Cable Ties and other supplies to meet the application at hand. In addition to the management materials listed below, FiberNext also offers a wide variety of sizes, colors and packaging quantities on various other cable management items and brands.

With any cabling project it’s important to clearly label all cables within the network at patching and junction points, as well as along the span. FiberNext offers labeling solutions for any application including inside and outside plant. Below are some common styles and many others are available.

**Cable Ties:**

- TOL-00024-TYT Cable Tie Gun, Adjustable Tension
- CNS-ZT127-TYT Cable Tie, 1300pc Assortment Pack
- CNS-ZT041-TYT Cable Tie, 50lb Light Duty 7.9” 1000pk, Black
- CNS-ZT059-IDL Cable Tie, 50lb light duty 8” 1000pk, Natural
- CNS-ZT128-TYT Cable Tie, 120lb Heavy Duty 12” 500pk, Black
- CNS-ZT129-TYT Cable Tie, 120lb Heavy Duty 15.25” 500pk, Black
- CNS-ZT130-TYT Cable Tie, 120lb Heavy Duty, 30” 50pk Black
- CNS-ZT131-TYT Cable Tie, 18lb Write On ID, 4.3”, 200Pk Natural

**VELCRO® Brand ONE-WRAP® Straps:**

- CNS-VL057-TYT VELCRO® Brand ONE-WRAP® Strap 3/4” x .50’ Black Roll
- CNS-VL023-ULN VELCRO® Brand ONE-WRAP® Strap 1/2” x .75’ Black Roll
- CNS-VL025-TYT VELCRO® Brand ONE-WRAP® Strap 3/4” x .75’ Black Roll
- CNS-VL002-VEL VELCRO® Brand ONE-WRAP® Strap 3/4” x 75’ Orange Roll
- CNS-VL003-VEL VELCRO® Brand ONE-WRAP® Strap 3/4” x 75’ Aqua Roll
- CNS-VL004-VEL VELCRO® Brand ONE-WRAP® Strap 3/4” x 75’ Violet Roll
- CNS-VL005-VEL VELCRO® Brand ONE-WRAP® Strap 3/4” x 75’ Yellow Roll

**Electrical Tape:**

- CNS-TP067-TYT General Purpose Electrical Tape 7ml White
- CNS-TP068-TYT General Purpose Electrical Tape 7ml Yellow
- CNS-TP036-MMM Super 33+ Professional Electrical Tape
- CNS-TP064-TYT Professional Elect. Tape 8ml Black, to ~40Fo

**Pre-Printed Label Dispensers:**

- CNS-LB001-MMM 0-9 Number Label Dispenser Cut-to-length

**Indoor/Outdoor Fiber Optic Caution Tags:**

- MIS-LB013-TYT Self Coiling Plastic Caution Tags 4”L x .055” Dia
- MIS-LB014-TYT Self Coiling Caution Tags 7.25”L x .73” Dia
- MIS-LB008-MLK Self Coiling OSP Caution Tags -Custom Print
Fiber Optic Connector Cleaning

Dirt and contamination are a major cause of issues with fiber optic networks. FiberNext offers the leading brands of fiber optic connector cleaning products. From wipes to One-Click cleaning tools we have the cleaning supplies to keep your network operating at its maximum performance. Some of our more popular items are listed below. If you don’t see what you’re looking for contact sales at 603-226-2400.

Cleaning Solvents:

- CNS-0001-GTV 99% Isopropyl Alcohol, 16oz Bottle
- TOL-00001-MEN Pump Top Bottle w Lock Lid for Alcohol
- CNS-CL002-NFS FCC2 Fiber Connector Cleaner, 3.0oz Can
- CNS-CL011-NFS FPF1 Fiber Preparation Fluid, 3.0oz Can
- CNS-WP001-CHE Alcohol Wipes, 50pk
- CNS-CL001-CHE Electro-Wash MX Pen

Dry Cleaning Tools:

- CNS-WP001-KIM Kim Wipes Optical Wipes, 280ct Box
- CNS-WP002-MCC MicroCare Wipes 90 Sheet Tub
- CNS-CL007-NFS Cletop Type B Reel Cleaner
- CNS-CL008-NFS Cletop B Tape Refill
- CNS-CL054-NFS 1.25mm Mini One-Click Cleaning Tool
- CNS-CL053-NFS 2.5mm Mini One-Click Cleaning Tool
- CNS-CL070-NFS MPO One-Click “push-to-clean” Tool
- CNS-CL056-NFS LC Duplex One-Click Cleaning Tool
- CNS-CL022-USC 1.25mm (LC) One-Click Cleaning Tool
- CNS-CL021-USC 2.5mm (SC) One-Click Cleaning Tool
Hand Tools

FiberNext carries a broad line of hand tools for installing fiber optic cable fiber from a variety of industry leading manufacturers including Ideal, Ripley, Sumitomo and many more. These tools are commonly used for installing, cutting, slitting, stripping, mid-entry on all types of fiber optic cables. Here are some of the common hand tools we carry. If you don’t see what you’re looking for contact sales at 603-226-2400.

Stripping Tools:

- **TOL-FS026-SUM**: 3-way Univ Strip Tool
- **TOL-FS005-HRD**: 3-way Univ Strip Tool
- **TOL-FS001-MLR**: FO103S 250um Univ Strip Tool
- **TOL-FS029-MLR**: 3-way Univ 250/900/3mm Strip Tool

Mid-Span Tube Entry Tools:

- **TOL-JS001-MLR**: MSAT-5 Mid-entry Tube Splitter
- **TOL-CT020-MLR**: MSAT-5 Replacement Blades 5pk
- **TOL-00003-CCS**: Corning Mid-entry Tool 2.4-3.0mm

Cable Sheath Entry Tools:

- **TOL-CT007-IDL**: Tube/Cable Ringing Tool Lg. Blue <14mm
- **TOL-CT026-IDL**: Tube/Cable Ringing Tool Gray <3.2mm
- **TOL-CT004-IDL**: Tube/Cable Ringing Tool .40*.75” Blue
- **TOL-CT023-IDL**: Tube/Cable Ringing Tool .50”-1.0” Black
- **TOL-00102-SUM**: Sumitomo Universal Sheath Ringer/Slitter
- **TOL-CT006-IDL**: Swivel Cable Slitting/Ringing Tool 3/16” to 1”
- **TOL-FS014-URA**: Flat Drop Cable Slitting Tool

Cable Cutting Tools:

- **TOL-CT001-MLR**: HD Cable/Kevlar Cutting Scissors
- **TOL-CT003-IDL**: Large Handle Kevlar Cutting Scissors
- **TOL-CT005-MLR**: FOKC Serrated Kevlar Scissors
Copper Networking

FiberNext offers a full complement of copper networking products from Cat5e and Cat6 cable to patch panels, jacks, faceplates and more. Our vendors include Hitachi, OCC, Comtran, HellermannTyton, Signamax and more. And don’t forget the patch cords, we can supply the end-to-end solution!

Cat5e & Cat6 Cable Examples:

- PN: COP-CA002-HCM Cat5e CMP Plenum 1000' Box, Blue
- PN: COP-CA005-CTN Cat5e CMR Plenum 1000' Box, Blue (also in Yellow & White)
- PN: COP-CA007-CTN Cat6 CMR Riser 1000' Box, Blue (also in Yellow & White)
- PN: COP-CA004-CTN Cat6 CMP Plenum 1000' Box, Blue (also in Yellow & White)

Cat5e and Cat6 Patch Cords:

- PN: COP-CA011-FNX Cat5e 3' Patch Cord, Unbooted, Blue CMR
- PN: COP-CA012-FNX Cat5e 5' Patch Cord, Unbooted, Blue CMR
- PN: COP-CA003-FNX Cat5e 7' Patch Cord, Unbooted, Blue CMR
- PN: COP-CA004-FNX Cat6 3' Patch Cord, Unbooted, Blue CMR
- PN: COP-CA007-FNX Cat6 7' Patch Cord, Unbooted, Blue CMR
- PN: COP-CA007-FNX Cat6 25' Patch Cord, Unbooted, Blue CMR

Data Closet Patch Panels Examples:

Work Area Jacks and Faceplates Examples:
Media Conversion and Switching

To complement our passive network materials offering, FiberNext offers a wide breadth of active networking hardware from several manufacturers. Our active networking devices includes media conversion, Ethernet switching, SFP modules and other devices used for a variety of commercial and industrial applications such as IP cameras, broadcasting, LAN networking, WAN networking, utility/smart grid, tactical, FTTX/PON networks and more.

Media conversion solutions support data, voice, video and image transport over a wide variety of transmission media. These products convert data from copper cable, multimode fiber, and single-mode fiber through Standard, Fast, and Gigabit Ethernet protocols.

Ethernet Switches deliver PoE, cost-effective network speed, plug & play convenience, and network control through complete and comprehensive management options. Ethernet Switches solve an array of applications and power devices over low-voltage cable, reducing costs and have rapid ROI.

Below are examples of a couple of the brands we carry:
Ethernet Testing

**Testing your next-generation 100G network**

The growing demand for more bandwidth and the proliferation of data centers and inter-data-center connectivity is fueling the growth of 100G networks. Network equipment manufacturers (NEMs) are responding with solutions that are better suited to the mass deployment of 100G in the network with the inclusion of high-speed pluggable CFP4 and QSFP28 interfaces that lower costs and offer increased port density.

EXFO’s FTBx-88200NGE Power Blazer is the first test solution to offer integrated CFP4 and QSFP28 interfaces, making it ready for the 100G network evolution.

Wireless Access Points

When connectivity really matters, organizations turn to Ruckus. FiberNext offers Ruckus indoor and outdoor wireless access points to fit just about any budget, performance requirement or deployment scenario. Whether you’re challenged with high client density, Wi-Fi-unfriendly building materials or just rising employee or customer expectations, Ruckus access points provide secure, reliable access no matter how tough the environment. Every Ruckus AP, from the humblest to the boldest, is packed with patented technologies that go beyond the everyday to ensure superior connections and awesome user experiences.
Network Video

FiberNext is excited to announce its partnership with Axis Communications as a member of the Axis Channel Partner Program. As the industry leader in network video, Axis offers a wide range of products and services for video surveillance, access control, audio systems, as well as video analytics – improving security and optimizing business performance. FiberNext can provide you with a complete range of solutions, whether you need a smart system for basic surveillance or a more advanced security system.

Ethernet Lighting

FiberNext can provide you innovated PoE Lighting through their partnership with CREE. CREE is a market-leading innovator of lighting-class LEDs, LED lighting and semiconductor solutions for wireless and power applications. They are uniquely positioned to innovate new ways in which lighting will serve as a platform for emerging technologies and capabilities that will enrich lives, improve society and safeguard our planet.
Technical Services

Project Management
FiberNext can provide highly involved project management services for unique fiber optic install projects. We work closely with general contractors to provide comprehensive installation estimating, planning, scheduling, provisioning, and construction services to keep projects moving efficiently. We can provide turnkey solutions managing subcontractors to generate quality installations.

Network Audit
FiberNext can provide communication auditing for various network users. From campus network audits to WAN services including pole line audits and pathway analysis. We provide detailed audits and documentation for markets ranging from transportation, energy, broadcasting and municipal.

Field Services
FiberNext has a highly skilled and trained team of versatile fiber optic professionals that deliver diverse field services. From network testing and troubleshooting to full turnkey solutions we have the knowledge and experience to deliver against your specific requirements. FiberNext has developed a reputation for quality installations and services that our customers have come to rely on.

Training
FiberNext is a leading provider of technician training in fiber optic cabling in the Northeastern US region. Each of our 3-day Certified Fiber Optic Technician (CFOT®) programs are BICSI accredited and Fiber Optic Association (FOA) sanctioned.
Technical Services

**Services Provided:**
- Aerial Pathway Planning
- GPS Asset Mapping
- GIS Database Development
- Fiber Optic Cable Placement
- Rack & Hardware Installation
- Fiber Optic Termination
- Fiber Optic Fusion Splicing
- Aerial Fusion Splicing
- Insertion Loss Testing
- Return Loss Testing
- Bandwidth Testing
- Certification Testing
- OLTS Testing
- OTDR Testing
- Chromatic Dispersion Testing
- Polarization Mode Dispersion Testing
- Network Troubleshooting
- System Documentation
- Project Management
- Network Auditing
- Network Integration
- Sub-Contracting
- Network Design & Consulting
- Security Camera Installation
- Fiber Optic Technician Training

**Our Equipment:**
- Core Align Fusion Slicers
- V-Groove Fusion Splicers
- Quad LAN/WAN OTDRs
- Launch/Reference Cables
- MPO Field Installation tools
- Video Fiber Scopes
- Fiber Optic Talk Sets
- Insertion Loss Test Kits
- SM OLTS Test Kits
- SM Return Loss Meters
- Mass Fiber Optic Polishers
- MM Certification Test Kits
- Fiber Termination Kits
- Fuse-On Connector Kits
- Fiber Optic Identifiers (OFI)
- Gb Bandwidth Test Set
- Assorted Construction Tools
- Jobsite Trailers

**Markets Served:**
- Data Center
- Broadcast
- Cable & Internet
- LAN & Campus Networks
- Wide Area Networks
- Municipal Networks
- Utility & Smart Grid
- Windfarms
- Hydro Power
- Solar Panel Arrays
- Surveillance & Security
- Industrial Ethernet
- Oil & Gas
Certified Fiber Optic Technician (CFOT®) 3-day program

In this program, students will learn the fundamentals of fiber optic networking for applications from the ground up. Beginning with important safety considerations, students will then be exposed to all the elements in a typical fiber optic network including various cable types, connectors, patching hardware, installation methodologies and industry standards. Students will also be trained on the types of equipment used to test and troubleshoot installed fiber optic cable. The program is highlighted by samples from industry leading manufacturers and incorporates a series of hands-on labs for connectors, splicing, inspection and certification testing of fiber networks.

• **Who should attend?** Anyone looking for a thorough understanding of fiber optic infrastructure systems including installers, electricians, IT managers, systems designers, end users, facility managers, ITS professionals, telecom/datacom service technicians and more.

• **Student Prerequisites:** None (although a background in communications, computer networking or cabling systems is strongly recommended but is not required).

• **Student Certification:** Obtained by taking the written CFOT exam on the third day of the program (included in the course price). Students must receive an exam score of 70% or higher to achieve FOA CFOT certification.

• **Classroom Ratio:** 60% lecture, 40% hands-on labs.

• **Accreditations:** FOA CFOT Certification and 1-year membership into the FOA as well as 21 BICSI continuing education credits for all BICSI members that attend.

We hold training classes once a month at our facility at 41 Locke Rd, Concord NH 03301. For groups of 10 or more we can bring the training class to you.

For more information, to sign up for a class or to schedule a training at your location contact us at 603-226-2400 or at Sales@FiberNext.com.
Get FiberNext T-shirts customized with your company logo!

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