



Optical
Connectivity
Product Brochure



A leading optical and digital solutions company.



Research and Development
3 Innovation Centres

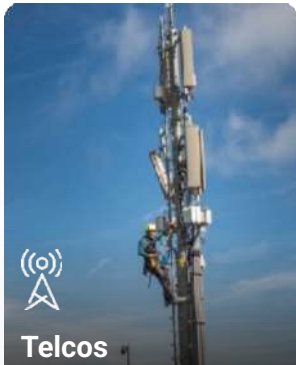


World class manufacturing facilities in India, US & Italy



Advanced product offerings to build 5G, Rural, FTTx, Enterprise and Data Center networks

Powering Next-Generation Fiber Access Networks



Telcos

To connect each customer with the latest data applications while ensuring better experience.



Cloud Companies

To enable future application and immersive content by bringing computer & storage capabilities to the edge



Citizen Networks

To empower every citizen with high quality primary connectivity.



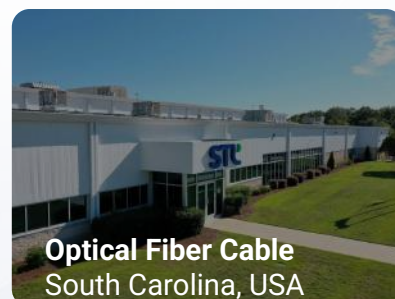
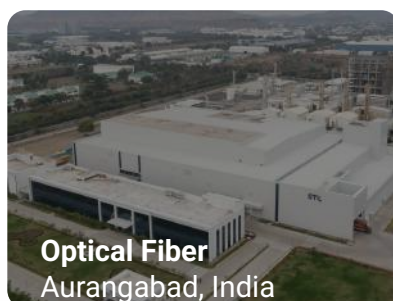
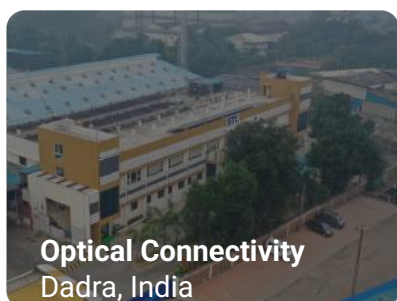
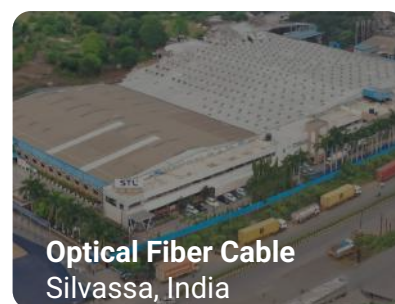
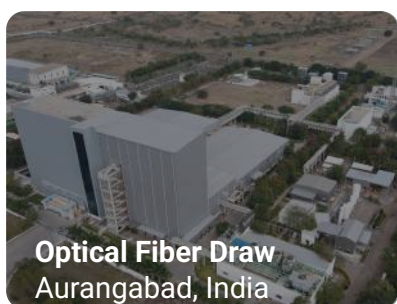
Large Enterprises

To create secure networks for the specialized enterprise use cases.

Global Manufacturing Operations

STL is a leading global optical and digital solutions company providing advanced offerings to build 5G, Rural, FTTx, Enterprise and Datacenter networks. The company, driven by its purpose of 'Transforming Billions of Lives by Connecting the World' designs and manufactures in 4 continents with customers in more than 100 countries.

STL has a strong global presence with design and manufacturing capabilities in India, Italy, the UK, the US and China.



Optical Connectivity

Connect with Confidence

In the rapidly evolving world of FTTx networks, you need more than just individual components; you need a partner who understands the full spectrum of fiber management for ISP access networks. STL's Optical Connectivity Solutions offer a complete approach to building and maintaining robust, future-ready broadband access networks that stand the test of time. Our solutions deliver exceptional quality, longevity, and ruggedness, ensuring that your network infrastructure remains a stable and reliable communications backbone for years to come.

We believe in offering more than just products—we provide a comprehensive set of integrated solutions that include design-through-operation services. This holistic approach makes network deployment seamless, efficient, and tailored to your specific needs. With STL, you can manage your fiber access network with confidence, knowing that every product is Designed Around You. Our broad product range allows for one-stop shopping, simplifying your procurement process and ensuring that every element fits perfectly into your operational framework.

Our portfolio covers end-to-end fiber-management solutions across key parts of the ISP access network. In Central Office and headend environments, we provide network termination points (nPTDs) for organized and reliable fiber termination. Our Outside Plant offerings include closures, field-installable connectors, patch cords, and splice components built to perform in demanding conditions. At the premises, compact termination boxes, wall-mount outlets, splice protection sleeves, mechanical splice devices, and a wide range of connectors and patch cords ensure complete, future-ready passive network solutions. Supported by STL's engineering expertise and training, our portfolio empowers partners to build, maintain, and scale high-performance broadband access networks with confidence.

With STL Optical Connectivity Solutions, you're not just building a network; you're investing in a legacy of reliability and performance. Our solutions are Ready for the Future, Today, empowering you to connect with confidence, now and in the years to come.



Engineered for
Endurance



Designed
Around You



Ready for the
Future, Today



Optical Connectivity Portfolio



OptoBlaze
Multiport Service Terminal

Plug-and-play FTTH MST for fast hub-to-subscriber connections, available in 4, 8, or 12 ports with or without splitters



OptoBolt
Pre-Connectorized Drop Cable

Pre-connectorized single-fiber drop cable for connecting the MST to the subscriber's home, available in multiple lengths with one or two connectors



OptoPod
Flexible Multiport Service Terminal

Compact fiber terminal for quick, flexible connections in space-constrained installations, with staggered connector cables



OptoPull
Pullable Field Installed Drop Cable

Factory-terminated single-fiber drop cable designed for faster subscriber connections and reduced installation time and cost



OptoPed
Optical Pedestal

Carrier-grade optical pedestal engineered for long-term durability and reliable performance in harsh outdoor environments



FOTB
Fiber Optic Termination Box

Fiber optic termination box for splitting and termination in MDUs and small offices, designed for fast deployment and easy customer connections



Patch Cord and Pigtail
Fiber Optic Accessories

High-quality fiber patch cords and pigtails with precision connectors, manufactured using advanced processes and tested with high-end optical equipment



nPTD
Subrack

19" rack-mount fiber unit for efficient splicing and patching, featuring a pivoting tray and removable front cover



HTB
Home Termination Box

STL Home Termination Box (HTB) is a compact fiber wall outlet designed for FTTH (Fiber to the Home) networks..



CONCAT
Spliceless Concatenated Fiber Cable Assembly System

Spliceless, modular fiber assembly enabling faster FTTH rollouts with plug-and-play connectivity, cost savings, and scalability.



Aerial FDH
Fiber Distribution Hub

Aerial Fiber Distribution Hub (FDH) is a high-performance solution for fiber termination and optical splitting in FTTH PON networks.

BABA COMPLIANT OFFERINGS



STL RapidRibbon
Ribbon Cables



STL RapidTube
Multi Loose Tube Cables



STL RapidDrop
Dielectric and Toneable Drop
Cables



STL MicroLite
Multi Loose Tube Microduct
Cables



STL Celesta
Intelligently Bonded Ribbon
Cables



STL OptoBolt
Hardened Connectorized Drop
Cable



STL OptoPed
Optical Pedestal



HARDENED CONNECTIVITY

Multiport Service Terminal (MST)

OptoBlaze

- **Easy Installation** - Ergonomic design and zig zag port placement design ensures easy and fast installation
- **Wide Range** - Adheres to IEC Standards. Available in a 4-port, 8-port or 12-port configuration with or without preloaded splitters
- **Hang and Lock Mechanism** - Universal mounting bracket with a hang-and-lock mechanism makes it suitable for installation in hand-hole, pedestal, utility pole or on over head cable
- **Fast Installation** - Round self rodding drop cable results in an avg time savings of 5 minutes per aerial drop



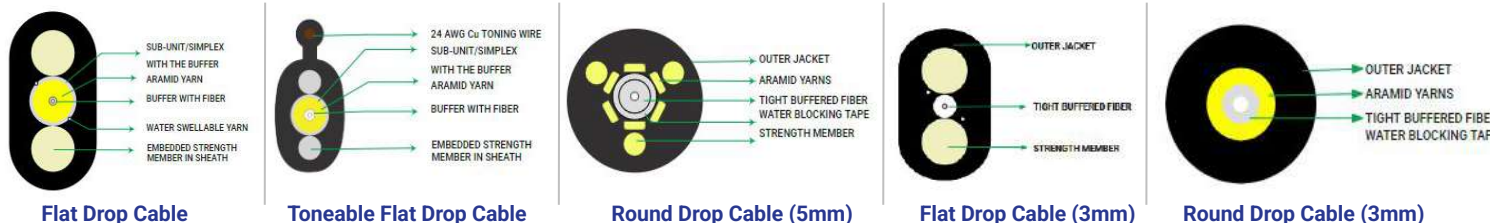
Pre-Connectorized Drop Cable

OptoBolt

- OptoBolt is a factory-terminated hardened SC/APC connectorized single fiber drop Cable, designed to significantly reduce installation time and overall subscriber connection costs.
- OptoBoltEC is the Extra Compact version specifically designed for high-density, compact terminals where space is limited.
- IP68 2m IEC 60529 rated product, tested for 2 meters depth of water for 7 days



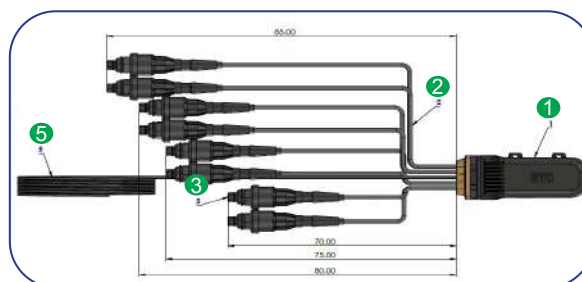
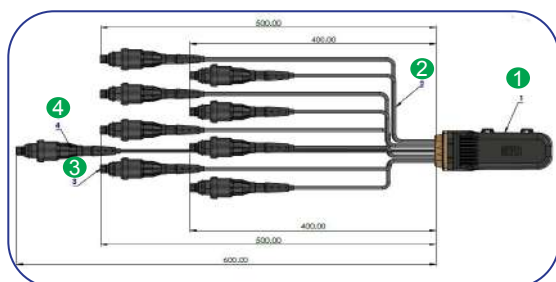
Available Cable Designs



Flexible Multiport Service Terminal

OptoPod

- The STL OptoPod is designed for pole mount and to fit inside poles, compact pedestals and handholes, accelerating FTTH community acceptance.
- It is available in P2P, 1x4, and 1x8 splitter terminal configurations, enabling lower initial deployment costs by connecting multiple drops to one fiber.



- 1 ENCLOSURE
- 2 5mm FAN-OUT TUBE
- 3 FEMALE OUTPUT CONNECTOR
- 4 FEMALE INPUT CONNECTOR
- 5 DROP CABLE

Drop Cable and Optical Pedestal

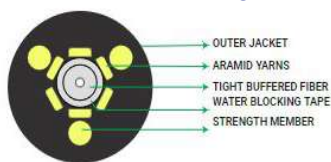
Pullable Field Installed Connectorized Drop Cable

OptoPull

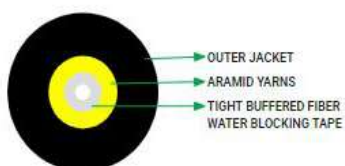
- STL OptoPull factory terminated single fiber drop cables are designed to significantly reduce cable installation time required for subscriber connection, thereby reducing the total cost to connect.
- Ease of installation with Field Installable SC/APC Connector



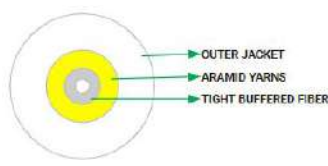
Available Cable Designs



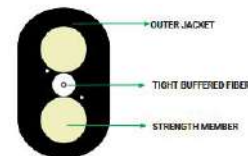
Round Drop Cable (5mm)



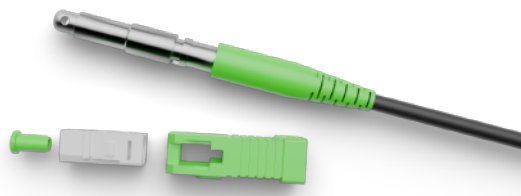
Round Drop Cable (3mm)



UL-OFNR Rated Round Drop Cable (3mm)



Flat Drop Cable (3mm)



Connector Assembly

Optical Pedestal

OptoPed

- STL pedestal is built with carrier-grade engineering materials for lasting environmental endurance.
- These pedestals are designed and tested to withstand the harshest of environmental conditions, including floods, fires, Insects, fungus, cyclones and high-speed winds carrying dust and debris.
- OptoPed adheres to the Telcordia GR-13 fire resistance standards
- This product is designed in light green or dark green color that goes well with surroundings.



Optical Pedestal Range

Optical Pedestal

STL BABA Complaint range of OptoPed Pedestals are economical ground or pad mountable pedestals that can be used for a variety of applications to splice, patch, drop, express optical fiber or coax drops to subscribers. It can also be used to house a terminal or closure. A wide variety of accessories and accessory kits are available for factory or on site customization.

- Product Size: 10" X 8" Rectangular, Buried Depth: 11", Height Above Grade Level: 27", CAN 216 Tool Operable Locking Provision
- Mid-span Loose Tube / Modules Storage Capacity: 3.4 Meters (11 Feet, Distribution Cable Loose Tubes/ Modules: 1.5 Meters (5 Feet)
- Splice Trays: 6 Nos., Single Fiber Single Stacking: 144F Splices, Single Fiber Double Stacking: 288F Splice, 12F Ribbon Fiber: 864F Splices



**HDPE Solid Base 8" X 8"
Optical Pedestal**



**HDPE Solid Base 10" X 10" Optical
Pedestal**



**HDPE Solid Base 12" X 12" Optical
Pedestal**

FOTB - Fiber Optic Termination Box

STL's range of FOTB product offering is the perfect solution to be used in the FTTx networks for both indoor and outdoor conditions. Its innovative design makes FOTB the ideal choice for splitting and termination needs of optical fiber in locations like single dwelling unit, multi-dwelling units and small offices.



Comprehensive Design

- Compact plastic design with fire-retardant, LSZH materials (UL 94HB V1)
- Suitable for Category C, G, and A environments (IEC 61753-1)
- Ample cable storage space
- Easy integration with optical passive components



Customizable Design

- Available for both Splice and Splice - Patch application
- Top cable entry option available
- Multiple accessories available to terminate and seal different cable type
- Two colour options available: RAL7035 / RAL9001



Ergonomic Design

- Designed with a single point lock coupled with double latch locking for better sealing
- Cable reeler which ensures optimum bend radius
- Mounts directly on wall and comes with a provision for pole mounting
- Provision for Cable anchoring and Mid spanning



Protective System

- IIP65 – Protection against entry of foreign solid objects and water
- Earth provision available



Specification	FOTB-8	FOTB-16
SC/APC Adapter Capacity	Up to 12	Up to 24
Splicing Capacity	Up to 24 fibers	Up to 48 fibers
Splitter Support	1x8 splitter	1x8, 1x16, 1x32 splitters
Pigtail Support	Yes	Yes

Patch Cords and Pigtails

Patch Cords are a type of optical fiber cable that comes with pre-terminated connectors at both ends. The connectors terminated at both ends can be of the same type (LC-LC or SC-SC) or can be of different types (LC-SC) basis the application. These patch cords are typically LSZH jacketed and are available in different fiber counts with different fiber types.

Pigtails are a type of optical fiber cable that comes with a pre-terminated connector at one end only and the other end is ready for splicing to another fiber.



International Quality Standards

- IEC Grade B standard
- IEC Grade A quality is available on request
- Qualified to Telcordia GR326 and IEC 61300 standards
- RoHS compliant materials



Different Configurations

- Ultra polish (UPC) and Angle polish (APC) available
- Available in single mode G.652.D, G.657.A1, or G.657.A2, and multimode OM1, OM2, OM3, or OM4.
- Simplex and Duplex available, with 1.6m, 2mm or 3mm diameter.



Wide Range

- Pigtails available as sets in 2, 4, 6, or 8 colors.
- Connector options include SC, LC, FC, ST, MU, and E2000.
- Various sheath colors are available.
- Pulls tab, and short boot options available.



High Safety

- Its Low Smoke Zero Halogen (LSZH) flame-resistant jacket that doesn't emit toxic fumes even if it burns



nPTD-New Pivoting Tray Drawer

Optical Distribution Panels

The New Pivoting Tray Drawer (NPTD) is a 19" rack-mountable metallic unit designed for efficient fiber optic cable splicing and patching, featuring a pivoting tray and removable front cover.



Pivoting Tray Access

Left and right trays enable easy installation and maintenance around a single pivot point.



Low Fiber Stress

Pivot design minimizes strain on fibers compared to linear movement.



Front Facing Patch Field

Provides safe, organized cord management and easy connector access.



High Density

Maximizes fiber capacity while saving rack space



Visible Port Labeling

Clear labeling (1-96) ensures fast, accurate patching.



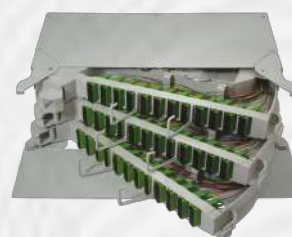
Maintenance-Optimized

Pre-terminated pigtails with dual access enable easy maintenance.

Optical Distribution Panels

Shelf Features & Design

- NPTD – Ideal for flexible deployments
- Fixed Adapter Positioning – Stable, secure and consistent layout
- SC & LC Compatibility – Supports both connector types
- Pivoting Access – Right- or left-pivoting versions for easy handling
- Configurations – Patch & Splice or Patch Only
- Available Sizes – 1U, 2U, and 3U 19" rackmount



Product	Rack Unit (RU)	Termination Capacity
NPTD	1U / 2U / 3U	Up to 48 SC per unit
		Up to 72 LC per unit
NPTD HD	1 U	Up to 96 LC
	2 U	Up to 192 LC
	3U	Up to 288 LC

HTB-Home Termination Box

Optical Distribution Panels

The New Pivoting Tray Drawer (NPTD) is a 19" rack-mountable metallic unit designed for efficient fiber optic cable splicing and patching, featuring a pivoting tray and removable front cover.



Easy Termination

Supports splicing or field-installable connectors



Adapter Options

2 SC/LC standard, expandable to 4 ports



Compact Design

Slim, modern enclosure for indoor use



Durable Build

Robust PC-ABS construction for long-term protection



Flexible Entry

Cable access from all sides; vertical or horizontal mounting



Secure Access

Screw-locked cover with optional security labels

Ideal use cases

- FTTH subscriber terminations
- Wall-mounted final customer drop point
- ONT (Optical Network Terminal) connection interface
- Residential fiber upgrades and new builds

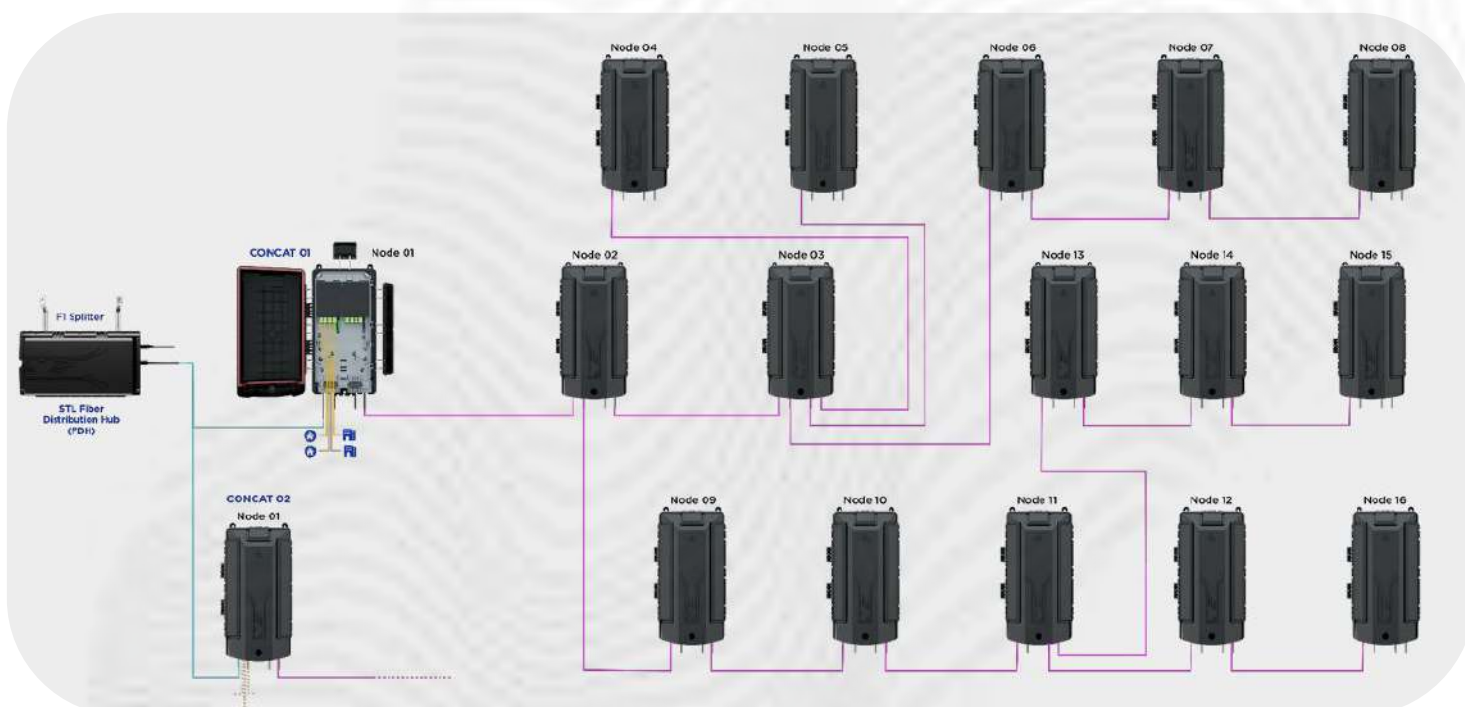


Concatenated Fiber Cable Assembly System

The STL CONCAT Spliceless Concatenated Fiber Cable Assembly System is designed to simplify and accelerate FTTx network deployments. It utilizes factory-assembled, pre-connectorized fiber segments, eliminating the need for field fusion splicing and offering true plug-and-play functionality. The modular system includes the CONCAT Closure, MPO-LC assemblies, splitter modules, and a reusable reel. This approach minimizes field labor, ensures consistent quality via factory testing, and delivers faster time-to-service and cost savings for network builds and upgrades.

CONCAT Architecture

STL CONCAT features a pre-connectorized MPO-to-LC cable assembly with a compact, versatile enclosure that supports both aerial and buried deployments. Its three branching options enable flexible distribution, while MPO-to-LC connections improve attenuation and keep installation plug-and-play. Flat ADSS and IBR drop cables allow longer spans and quick splicing at the FDH. The closure includes ganged LC connectors, ample slack storage, clear fiber routing, and space for up to two symmetrical splitters, ensuring efficient organization of feeder, distribution, and drop sections.



Concatenated Fiber Cable Assembly System

CONCAT Closure

STL CONCAT Closure is a robust, pre-connectorized solution engineered for fast, reliable FTTx deployments. Tested to Telcordia GR-771 and GR-2866 standards, this closure enables seamless MPO-to-LC concatenation through a modular cassette setup.



Closure

Drop Splitter Module

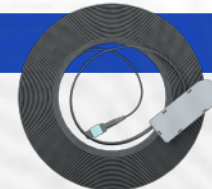
STL Symmetrical Splitter Modules are compact, high-performance optical splitters (1x2, 1x4, 1x8) designed for efficient FTTx signal distribution. They operate across a wide wavelength range (1260 to 1650 nm) and feature an ultra-small form factor with integrated mounting for easy deployment in closures and cabinets. Engineered for harsh environments (rated -40°C to +70°C) and tested to stringent Telcordia standards, they ensure robust reliability and consistent optical performance.



Drop Splitter Module

MPO-LC Cable Assembly

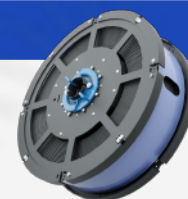
The STL CONCAT MPO - LC pre-connectorized fiber cable assembly is engineered for fast, high-performance FTTx access and drop network deployments. It features pre-coiled lengths (30 to 1,000 feet) for aerial, buried, or duct applications, reducing installation time. The assembly uses a flat, all-dielectric self-supporting (ADSS) IBR cable and integrates a factory MPO to LC/APC fanout protected within an LC connector box, ensuring connection integrity from the factory to the field.



MPO - LC Cable Assembly

Reusable Reel

STL Reusable Reel Assembly is a rugged, field-friendly solution for deploying pre-connectorized fiber coils up to 1,000 feet. Its reusable design enables quick loading, easy transport, and smooth, tangle-free cable payout, reducing packaging waste while boosting installation efficiency in both aerial and underground applications.



Reusable Reel



Enable easy installation and maintenance for rapid deployment



Reduce labor dependency and lower overall network TCO



Simplify branch point management with modular flexibility



Ensure adaptability across aerial and underground networks

Aerial FDH - Fiber Distribution Hub

STL's **Aerial Fiber Distribution Hub (FDH)** is a compact, strand-mounted solution for fiber termination and optical splitting in areas where ground-based cabinets are not feasible. This pre-configured hub streamlines connections between feeder and distribution lines, simplifying service deployment while enhancing security and minimizing permitting challenges.



Rapid deployment

- 100-Foot Cable Length for Plug-and-Play deployment.
- Available with 12, 24, or 48-fiber feeder options.
- Available in 144 or 288 LC output ports.



Durable Design

- IP55-rated enclosure for reliable outdoor use.
- Space-saving design to fit tight aerial installations.
- LC connectors with pull tabs to enable easy handling in high-density layouts.
- Durable molded enclosure ensures long-term performance.



Increased capacity and flexibility

- Supports up to 10 splitter slots using 1x32 PLC splitters.
- Easily expand splitter capacity without replacing hardware.
- Choose between factory-installed or field-added as needed.



Optimized Fiber Management

- Intuitive routing paths with bend radius protection with slack storage.
- Integrated parking lot for up to 64 fibers.
- Splitter tails with 1.2mm A2 bend-insensitive fiber.





STL

beyond tomorrow

About STL

STL is a global leader in advanced connectivity solutions, providing end-to-end solutions for building AI-ready infrastructure, FTTx, Rural, Enterprise and Data Centre networks. With manufacturing facilities in North America, Europe and Asia, we deliver our solutions in more than 100 countries. Data Centre & Cloud companies, Telecom operators, Internet service providers and Large enterprises collaborate with STL to build their future-ready digital infrastructure. STL's business goals are driven by customer-centricity, R&D and sustainability

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You can also visit our website at www.stl.tech

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