



UNISOL COMMUNICATIONS

PRODUCT CATALOGUE

Innovative Products With Engineering Design



Certifications





UNISOL COMMUNICATIONS

At UNISOL, we have been delivering reliable fiber optic networking solutions since our establishment in 2002. As a value-added System Integrator and OEM of Fiber Optic Networking Products and Accessories, we specialize in designing, manufacturing, and supplying high quality fiber optic solutions for modern communication networks.

Over the years, we have built a strong reputation for delivering innovative, durable, and high performance fiber optic products, including fiber optic patch panels, fiber optic patch cords, and indoor and outdoor networking racks, designed to support reliable connectivity and data transmission.

We serve leading organizations across multiple sectors including IT, Telecommunications, Automation, Oil & Gas, Power Sector, Security & Surveillance, Hospitality, Educational Institutions, and various State and Central Government organizations.

Why UNISOL?

- 24+ years of industry expertise in offering Fiber Optic Networking Products & Solutions.
- 1350+ satisfied clients across the globe.
- We are an ISO certified company.
- CE and RoHS certified products.
- IP55 and IP65 certified company.
- Specialized in offering customized products such as fiber patch panels and Networking racks.
- Our solutions are trusted by leading organizations such as L&T, ABB, Siemens, Yokogawa, Johnson Controls India, Schneider Electric, AMNS, Tata Projects, Tech Mahindra, and TCS.



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CONTENT



FIBER TO HOME (FTTH) SOLUTION

- Rack & Wall Mount Patch Panels
- Fiber Optic Pigtails & Patch Cords
- PLC & LGX Splitters
- Fast Field Connectors & Couplers
- Backbone & FTTH Drop Cables
- ODF Unit & Outdoor Networking Racks



DATA CENTER SOLUTION

- Rack & Wall Mount Patch Panels
- Fiber Optic Pigtails & Patch Cords
- MPO Fan Out Cables & Cassettes
- Fiber Optic Adapters & Couplers
- MPO Patch Cords & Connectors



INDUSTRIAL AUTOMATION

- Din Rail & Wall Mount Patch Panels
- Cable Manager & High Density Patch Panels
- Armored Fiber Cables & Patch Cords
- Industrial Grade Shuttered Adapters
- Indoor & Outdoor Networking Racks



CITY & PERIMETER SURVEILLANCE

- Din Rail & Rack Mount Patch Panels
- Fiber Optic Pigtails & Patch Cords
- CCTV Poles & Pole Mount Racks
- CCTV Extenders & Brackets
- Indoor & Outdoor Networking Racks

DIN RAIL FIBER PATCH PANELS

PRODUCT FEATURES

- Rugged Mild steel or aluminum housing with high quality powder coating.
- Compact and robust design that helps save valuable cabinet space, making it ideal for installations in limited space enclosures.
- Available with 6 to 24 ports, depending on the model, allowing flexible fiber connectivity and network expansion.
- Supports a variety of fiber optic adapters, including SC, ST, LC, FC, and SMA ensuring compatibility with multiple fiber connectivity requirements.
- Replaceable adapter panels compatible with SC, ST, LC, FC, and SMA, adapters for easy upgrades and maintenance.
- Supports 2 to 4 cable entry points, enabling organized fiber cable management.

Nano Din Rail LIU



**130*65*105mm
(H*W*D)**

Micro Din Rail LIU



**150*105*120mm
(H*W*D)**

Mini Din Rail LIU



**210*44*150mm
(H*W*D)**

Medium Din Rail LIU

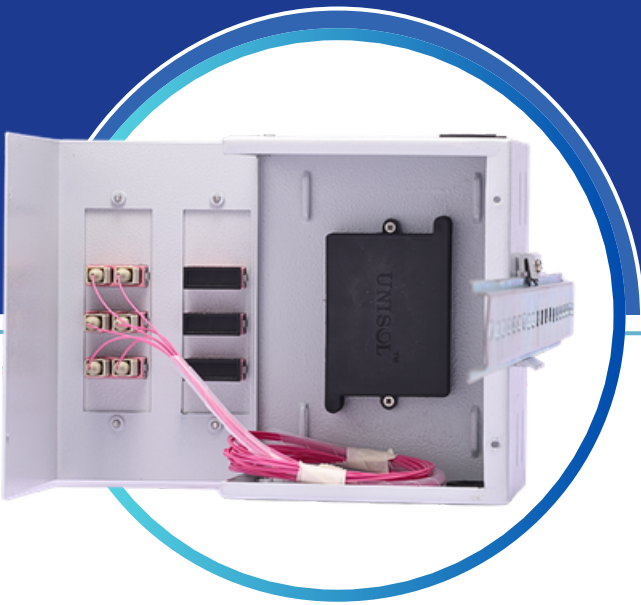


**280*90*200 mm
(H*W*D)**

DESCRIPTION

DIN Rail Fiber Patch Panels are designed to mount on a 35 mm DIN rail frame, providing reliable cross connect and interconnect capabilities for splicing and terminating OFC cables and pigtails in fiber access networks.

Unisol offers four models of DIN Rail Fiber Patch Panels based on the number of ports they support: Nano, Micro, Miniature, and Medium. These compact panels are typically installed close to the terminating device, ensuring efficient fiber management and easy access for maintenance and network expansion.



DIN RAIL FIBER PATCH PANELS

APPLICATIONS

- Industrial Automation.
- Rail Signalling & Control System.
- Process Automation & Control Systems.
- Power Systems & Controls.
- Oil & Gas.
- CCTV Surveillance System.
- Substation Automation Networks

Din Rail
Copper Patch Panel



Din Rail Cabinet



Hybrid Patch Panel



RACK MOUNT FIBER PATCH PANELS

PRODUCT FEATURES

- Rugged mild steel or aluminum construction with high quality powder coating.
- Designed for standard 19 inch rack mount installations, making it suitable for telecom racks, data centers, and network cabinets.
- Supports up to 96 fiber ports depending on the model, enabling high density fiber optic connectivity for network installations.
- Compatible with a variety of fiber optic adapters, including SC, ST, LC, FC, and SMA, available in both single mode and multimode configurations.
- Provides up to four cable entry points for organized cable routing and efficient fiber management.
- Supports both patching and fusion splice field termination, offering installation flexibility for different network setups.

Mini Rack Mount
LIU



44*210*150 mm
(H*W*D)

1U Std Rack Mount LIU



44*430*320 mm
(H*W*D)

2U Std Rack Mount LIU



88*430*320 mm
(H*W*D)

DESCRIPTION

Rack Mount Fiber Patch Panel is an integrated unit for fiber management, for splicing and direct termination of OFC cables and pigtails in the fiber access network. These patch panels allocate cross connect and interconnect capabilities. Unisol designed four models of Rack Mount patch panels such as Miniature, 1U, 2U, & 4U Standard.



RACK MOUNT FIBER PATCH PANELS

APPLICATIONS

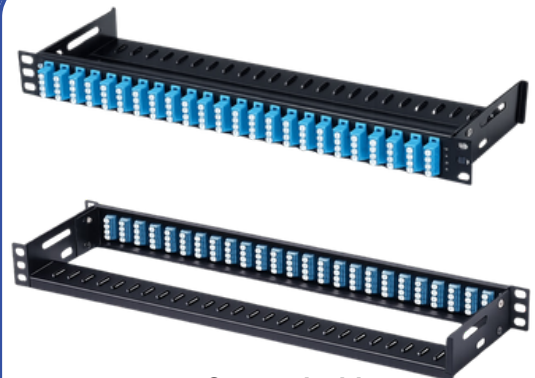
- Optical Fiber Communication Systems.
- Enterprise Networks.
- Central offices (FTTx).
- Data Centers.
- Telecommunication Networks.
- CCTV Surveillance Systems.
- Process Automation & Control Systems.

4U Std Rack Mount LIU



176*440*350 mm
(H*W*D)

High Density Fiber Patch Panel



Customizable

SLIDING RACK MOUNT FIBER PATCH PANELS

PRODUCTS FEATURES

- Rugged mild steel or aluminum construction with high quality powder coating.
- Designed for standard 19 inch rack mount installations, featuring a fully extendable slide out tray that provides easy access for fiber management, installation, and maintenance.
- Supports up to 616 fiber ports depending on the model, enabling high density fiber optic connectivity for network installations.
- Compatible with a variety of fiber optic adapters, including SC, ST, LC, FC, and SMA, available in both single mode and multimode configurations.
- Provides up to four cable entry points for organized cable routing and efficient fiber management.
- Supports both patching and fusion splice field termination, offering installation flexibility for different network setups.

1U SLD Rack Mount
LIU



44*440*320 mm (H*W*D)

2U SLD Rack Mount
LIU



88*440*320 mm (H*W*D)

4U SLD Rack Mount
LIU



176*440*350 mm (H*W*D)

DESCRIPTION

Sliding Rack Mount patch panel is an integrated unit for fiber management, for splicing and direct termination of OFC cables and pigtails in the fiber access network. These patch panels allocate cross-connect and interconnect capabilities. Unisol designed four models of Sliding Rack Mount patch panels Such as 1U, 2U, 4U, & 6U.

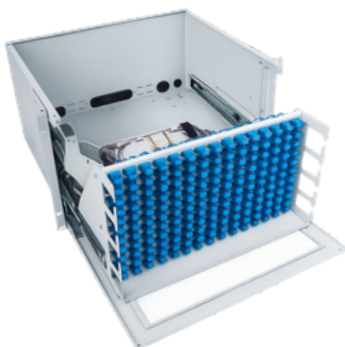


SLIDING RACK MOUNT FIBER PATCH PANELS

APPLICATIONS

- Optical Fiber Communication Systems.
- Enterprise Networks.
- FTTx Systems.
- Data Centers.
- Telecommunication Networks.
- CCTV Surveillance Systems.
- Process Automation & Control Systems.

6U SLD Rack Mount LIU



264*440*350 mm
(H*W*D)

Cable Manager



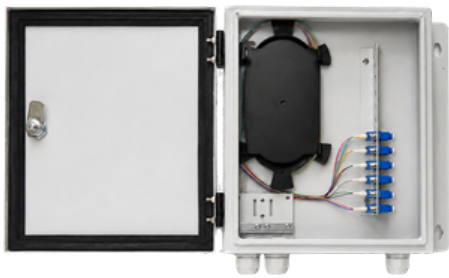
45*450*290 mm
(H*W*D)

WALL MOUNT FIBER PATCH PANELS

PRODUCTS FEATURES

- Rugged mild steel construction with high quality powder coating.
- Single door hinged design with lock and key mechanism for enhanced security and controlled access.
- Supports up to 96 fiber ports, depending on the model, enabling high density fiber connectivity.
- 100% tested for mechanical and optical performance to ensure reliable operation and consistent network performance.
- Provides up to five cable entry points for efficient cable routing and fiber management.
- Designed with IP55 protection rating, offering strong resistance against dust, humidity, rain, moisture, and physical impact.

8 Port Wall Mount
LIU



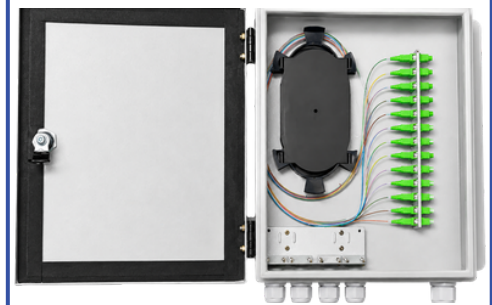
230*260*60 mm (W*H*D)

12 Port Wall Mount
LIU



310*250*60 mm (W* H*D)

24 Port Wall Mount
LIU



300*350*60 mm (W*H*D)

DESCRIPTION

Wall Mount Fiber Patch Panels are designed to be installed on walls, providing cross connect and interconnect capabilities for splicing and terminating OFC cables and pigtails in fiber access networks. They are ideal for building and campus networking environments.

Unisol offers Wall Mount Patch Panels in Miniature, 8 Port, 12 Port, 24 Port, 36 Port, 48 Port, and 96 Port variants.



WALL MOUNT FIBER PATCH PANELS

APPLICATIONS

- Industrial Automation.
- FTTx Systems.
- Telecommunication Networks.
- Process Automation & Control Systems.
- Rail Signalling & Control System.
- Power Systems & Controls.

36 Port Wall Mount LIU



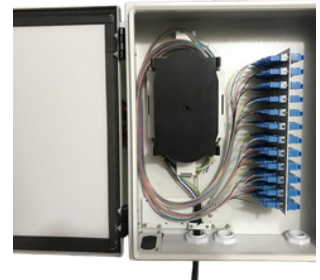
300*350*110 mm (H*W*D)

48 Port Wall Mount LIU



300*350*110 mm (H*W*D)

96 Port Wall Mount LIU



350*300*160 mm (H*W*D)

FIBER OPTIC PATCH CORDS

PRODUCTS FEATURES

- Available in both single mode and multimode configurations to support various fiber optic networking requirements.
- Low insertion loss and low back reflection, ensuring stable signal transmission and high network performance.
- Equipped with high precision ceramic ferrules that provide reliable fiber alignment and connectivity.
- Available in simplex and duplex variants, offering flexibility for different network setups.
- Also available as hybrid patch cords, featuring different connector types at each end to support diverse connectivity needs.
- Offered in customized lengths to meet specific installation and project requirements.

Singlemode Fiber
Patch Cords



Multimode Patch
Cords (OM1/OM2)



Multimode Patch
Cords (OM3)



Multimode Patch
Cords (OM4)



DESCRIPTION

Fiber Optic Patch Cords are jumper cables used to connect fiber optic equipment to equipment or patch panels. They consist of a fiber cable terminated with connectors. Patch cords are available in Singlemode and Multimode fibers (50 μm , 62.5 μm , OM1, OM2, OM3, OM4, OM5) and in simplex or duplex cable types. Common connector types include ST, SC, FC, LC, MTRJ, SMA, MU, and E2000.



FIBER OPTIC PATCH CORDS

APPLICATIONS

- Data Centers.
- LAN/WAN Networks.
- Telecommunication Networks.
- Audio/Visual Systems.
- CCTV Surveillance Systems.
- Industrial Automation.
- FTTx Systems.
- CATV Networks.

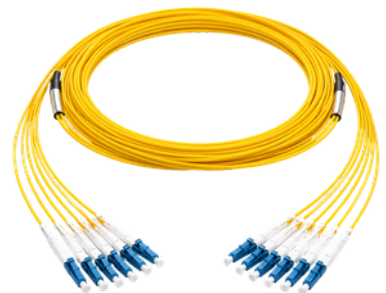
Multimode Patch Cords (OM5)



Armored Patch Cords



Fan Out Cable



FIBER OPTIC ADAPTERS AND CONNECTORS

PRODUCTS FEATURES

- High precision alignment ensures accurate fiber core positioning for reliable connectivity.
- Low insertion loss and low return loss, providing efficient signal transmission and stable network performance.
- High interchangeability, allowing seamless compatibility with standard fiber optic connectors.
- Shuttered design helps prevent accidental exposure to dust and contaminants, protecting the internal fiber interface.
- Protective dust caps keep the adapter clean and prevent dust accumulation when not in use.
- High precision ceramic sleeves ensure optimal alignment and maximum connectivity between fiber optic patch cords and jumpers.

Fiber Optic
Adapters/Couplers



Fiber Optic Connectors



DESCRIPTION

Fiber Optic Adapters and Connectors are essential components used to establish reliable connections in fiber optic networks. Connectors are attached to the ends of fiber optic cables to enable quick and secure termination, while adapters align and join two connectors for seamless signal transmission.

They are available in Singlemode and Multimode variants. Fiber optic adapters come in simplex and duplex configurations and support connector types such as ST, SC, FC, LC, SMA, MTRJ, MU, and E2000, ensuring compatibility with various fiber networking applications.



FIBER OPTIC ADAPTERS AND CONNECTORS

APPLICATIONS

- Telecommunication Networks.
- CATV distribution networks.
- Active device termination.
- Data Centers.
- LAN/WAN Networks.
- CCTV Surveillance Systems.
- Industrial Automation.
- FTTx Systems.

Fiber Optic Attenuators



Fast Field Connectors



FIBER OPTIC PIGTAILS AND ACCESSORIES

PRODUCTS FEATURES

- Available in both single mode and multimode configurations to support various fiber optic networking requirements.
- Low insertion loss and low back reflection, ensuring stable signal transmission and high network performance.
- High interchangeability, allowing seamless compatibility with standard fiber optic connectors.
- Equipped with high precision ceramic ferrules that provide reliable fiber alignment and connectivity.

Fiber Optic Pigtails



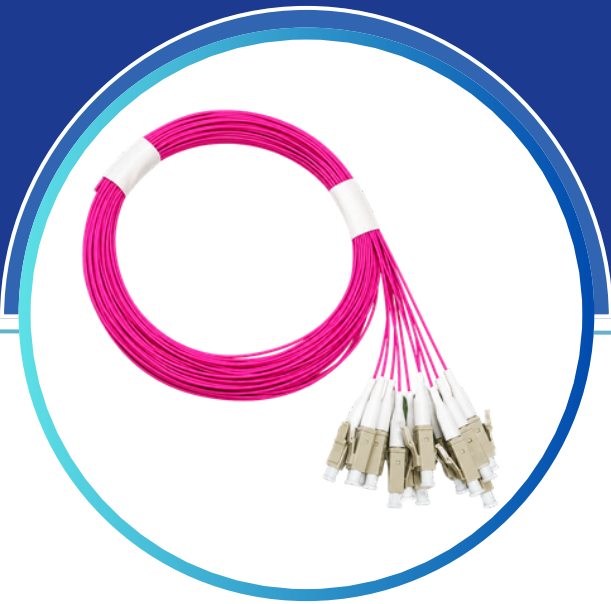
Loop Back Connectors



DESCRIPTION

Fiber Optic Pigtails and Accessories are essential components used for efficient fiber termination and management in fiber optic networks. Fiber optic pigtails are short lengths of fiber cable with a factory terminated connector on one end, while the other end is left bare for splicing to optical fiber cables. They ensure reliable connections and minimal signal loss in fiber distribution systems.

They are available in Singlemode and Multimode variants and support connector types such as ST, SC, FC, LC, SMA, and E2000. Fiber optic accessories include items such as loopback cables, home termination boxes, and fiber joint enclosures, which help organize, secure, and maintain fiber optic installations.



FIBER OPTIC PIGTAILS AND ACCESSORIES

APPLICATIONS

- Telecommunication Networks.
- CATV distribution networks.
- Active device termination.
- Data Centers.
- LAN/WAN Networks.
- CCTV Surveillance Systems.
- Industrial Automation.
- FTTx Systems.

Subscriber Home Termination Box



Joint Enclosure



MPO SOLUTION

PRODUCTS FEATURES

- Factory pre terminated and 100% tested to ensure reliable optical performance.
- Flexible cable arrangement options available to meet diverse installation and network design requirements.
- Integrated handles provided for easy installation, handling, and maintenance.
- MPO patch cords available in 8, 12, and 24 fiber configurations, supporting high density fiber connectivity.
- Available in Singlemode and Multimode (OM3 and OM4) variants to suit different network transmission requirements.
- OM3 and OM4 multimode cables are designed to tolerate slight bending, helping reduce system interruptions and signal degradation caused by fiber bending.

8F MPO/MTP
SM Cable



12F MPO/MTP
Om3 Cable



24F MPO/MTP
Om4 Cable



DESCRIPTION

MPO solution provides a complete connectivity system designed for high density networking environments such as data centers. It includes MPO connectors, patch cords, trunk cables, fan out cables, and cassettes, enabling high density fiber connections while optimizing space utilization.

MPO SOLUTION



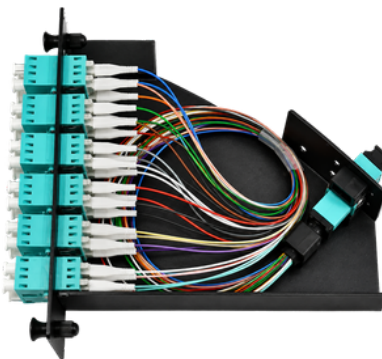
APPLICATIONS

- Data Centers.
- Short distance transmission.
- Long distance transmission.
- Enterprise networks.
- Campus networks.

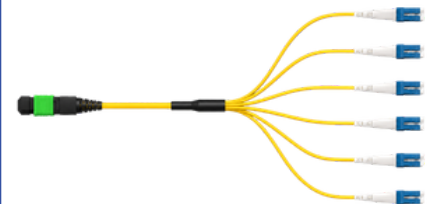
MPO Connector



MPO Cassette



MPO Fan Out



OUTDOOR NETWORK RACKS

PRODUCTS FEATURES

- Available in multiple sizes ranging from 2U to 27U.
- Outdoor racks designed to meet IP55–IP65 standards, providing protection against dust, humidity, rain, moisture, and physical impact, making them suitable for harsh outdoor environments.
- Equipped with a secure lock and key system to prevent unauthorized access and ensure equipment safety.
- Base mounting option at the bottom for stable and secure installation in outdoor locations.
- The bottom section includes separate cable entry points for power cables, signal cables, and optical fiber cables, improving cable segregation and installation efficiency.

Outdoor Wall Mount
Rack



Outdoor Floor Mount
Rack



DESCRIPTION

Outdoor Networking Rack solution provides a complete enclosure system designed for outdoor networking and telecom applications. It includes pole mount racks, wall mount racks, and floor mount cabinets, ensuring secure housing and protection for networking and fiber equipment while optimizing space and installation efficiency.

These enclosures are IP55–IP65 rated, providing protection against dust, moisture, rain, and physical impact for reliable outdoor operation.



OUTDOOR NETWORK RACK

APPLICATIONS

- Smart cities & ITMS projects.
- City surveillance and traffic monitoring.
- CCTV surveillance system.
- IoT parameter monitoring.
- Environment monitoring.

Outdoor Pole / Wall Mount Rack



Mini Outdoor Pole Mount Rack

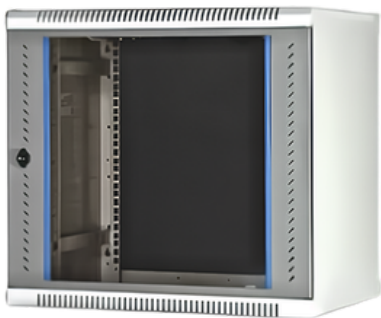


INDOOR NETWORK RACKS

PRODUCTS FEATURES

- Available in multiple sizes ranging from 2U to 42U depending on the model.
- Durable powder coated finish for enhanced corrosion resistance and long lasting performance.
- Panels with ventilation slots and cable entry provisions for efficient airflow and organized cable management.
- Grounding and bonding options provided for improved electrical safety and protection.
- Fan module mounting provision on the top or front cover to support effective heat dissipation and maintain optimal operating temperature.
- Lock and key security option with front or rear door access, ensuring safe and controlled access to installed equipment.

Indoor Wall Mount Rack



Server Rack



DESCRIPTION

Indoor Networking Rack solution provides a complete enclosure system designed for structured networking and telecom installations. It includes wall mount racks, floor mount racks, two post racks, and four post racks, ensuring organized equipment mounting, efficient cable management, and easy maintenance.

These racks are designed to securely house networking, server, and telecom equipment, optimizing space utilization while supporting reliable indoor network infrastructure.

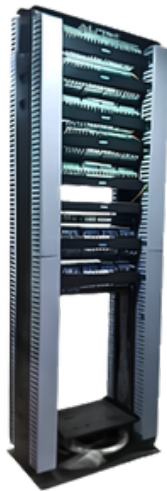


INDOOR NETWORK RACK

APPLICATIONS

- Data Centers.
- Enterprise networks.
- Telecommunication networks.
- CCTV surveillance system.
- Fiber To The Home (FTTH).

Two Post Rack



Four Post Rack



CCTV ACCESSORIES

PRODUCTS FEATURES

- CCTV poles designed for secure mounting of surveillance cameras, ensuring stable and reliable installation for monitoring applications.
- Compatible with Analog, IP, and PTZ CCTV cameras, providing flexibility for different surveillance system requirements.
- Designed to provide flexible camera positioning, ensuring optimal coverage for surveillance and monitoring areas.
- Outdoor pole mount cabinets are durable and weatherproof, specifically engineered to perform reliably in outdoor environments.
- Protective camera housings safeguard CCTV cameras from harsh weather conditions, dust, and vandalism, with options available in waterproof and tamper-resistant designs for enhanced security.

Camera Extender



Camera Housing



CCTV Pole



DESCRIPTION

CCTV Accessories solution provides essential components designed to support secure and efficient CCTV installations. It includes camera extenders, camera housings, CCTV poles, CCTV brackets, and CCTV pole mount racks, ensuring reliable mounting, protection, and connectivity for surveillance equipment.

These accessories help improve installation flexibility, equipment protection, and organized deployment for various surveillance applications.



CCTV ACCESSORIES

APPLICATIONS

- City surveillance and traffic monitoring.
- Smart cities & ITMS projects.
- Campus monitoring.
- Perimeter surveillance.

CCTV Bracket



Pole Mount Enclosure



FTTH SOLUTION

PRODUCTS FEATURES

- ABS housing with Mechanical seal for Excellent seal performance and reusable.
- Suitable for wall mount/pole mount /panel mount Applications.
- High impact resistance splicing tray & cable spool for fiber & pigtail routing.
- Capable of storing up to 3 meters of 900 micron tight buffered fiber cable
- Allow maximum four cables entry.
- Patch or fusion splice field termination standard.
- Replaceable panel for SC/ST/LC/FC type couplers
- Accessory kit includes mounting ear, cable gland, cable ties and screws.

Wall Mount FTTH
Box



ODF Unit



Fiber Access Terminal



DESCRIPTION

FTTH solution provides essential components designed for efficient fiber to the home network deployment. It includes Subscriber Termination Boxes, Fiber Optical Enclosures, ODF Units, Module PLC Splitters, Fiber Access Terminals (FAT), Patch Cords, Pigtails, and Fast Field Connectors, ensuring reliable fiber connectivity from the operator's network to homes and businesses.

These products help improve network distribution, fiber termination, and organized installation for FTTH applications.



FTTH PRODUCTS

APPLICATIONS

- Indoor Premise Networks
- Central offices (FTTX)
- Security Surveillance Applications
- Process Automation & Control
- Systems Telecommunication Network

PLC Splitter



LGX Splitter





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