



FTTX SOLUTIONS

Complete Passive Fiber Infrastructure
From Backbone to Last Mile.



Your **Trusted Partner** in Next-Generation FTTX Solutions



Telecommunications



Smart Cities &
Urban Infrastructure



IT & Data Centers



Automation & Mobility



Real Estate &
Construction



Oil & Gas



Transportation
& Railways



Hospitality & Healthcare



Government & Defence

Why Byteworx

Reliable Connectivity and Network Deployment

Complete FTTX infrastructure, engineered for reliable connectivity. From backbone to last mile, Byteworx delivers precision-engineered passive fiber solutions for FTTH, BharatNet, enterprise, and smart city networks—designed for reliable transmission, easy installation, and long-term performance.

15+

YEARS IN THE INDUSTRY

500+

CLIENTS SERVED

100%

QUALITY COMMITMENT

6

STATES TESTED



Precision Engineered

Accurate alignment and precise construction for reliable optical connectivity.



Maintenance-Friendly

Designed for easy maintenance and stable performance.



Weather Protection

Designed to perform reliably across changing weather and environmental conditions.



End-to-End Scalability

Scalable solutions for efficient signal transmission and evolving network needs.



Complete Range of FTTX

Passive Optical Connectivity

BYTEWORX offers a complete, field-proven suite of FTTX passive optical components engineered for seamless network integration . Featuring low-loss PLC splitters, IP65/IP68 weather-sealed enclosures, and high-reliability interconnect pigtails, our products deliver maximum network longevity and cost-effective scalability for modern telecommunication projects

- ☒ Joint Closures
- ☒ ODF Cabinet
- ☒ Fiber Management System (FMS)
- ☒ Splitters
- ☒ FAT Box
- ☒ Patch Cords & Pigtails
- ☒ Face Plate
- ☒ Fiber To The Room (Invisible Fiber)



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Fiber Optic PLC Splitters

Planar light-wave circuit splitter (PLC Splitter) is a type of optical power management device that is fabricated using silica optical wave-guide technology. It is used to split a fiber optic beam into several beams at a certain splitting ratio. It is an important passive device in the passive optical network. As one of the leading splitter manufacturers, we offer ROHS compliant products to the clients.



Features

- Wide operating wavelength range: 1260nm - 1650nm.
- Wide operating temperature: -40° C - 85°C .
- Good channel-to-channel uniformity.
- High reliability and small size.
- High strength stainless steel SS304, passes salt spray test.
- 100% virgin raw material, ROHS compliant.
- Low insertion loss, low PDL and compact design.

Low-Loss Splitting.
Consistent Performance

Applications & Deployment

☒ FTTX

☒ Cable television (CATV)

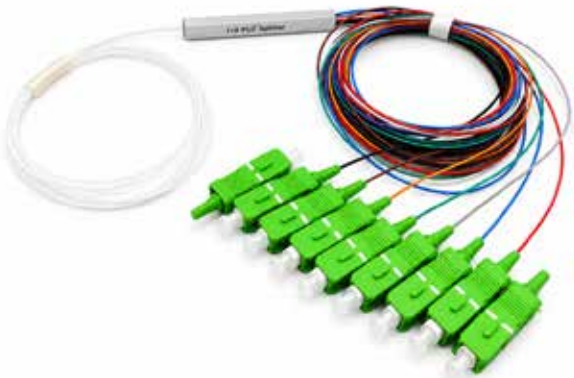
☒ Local area networks (LAN)

☒ Test Equipment

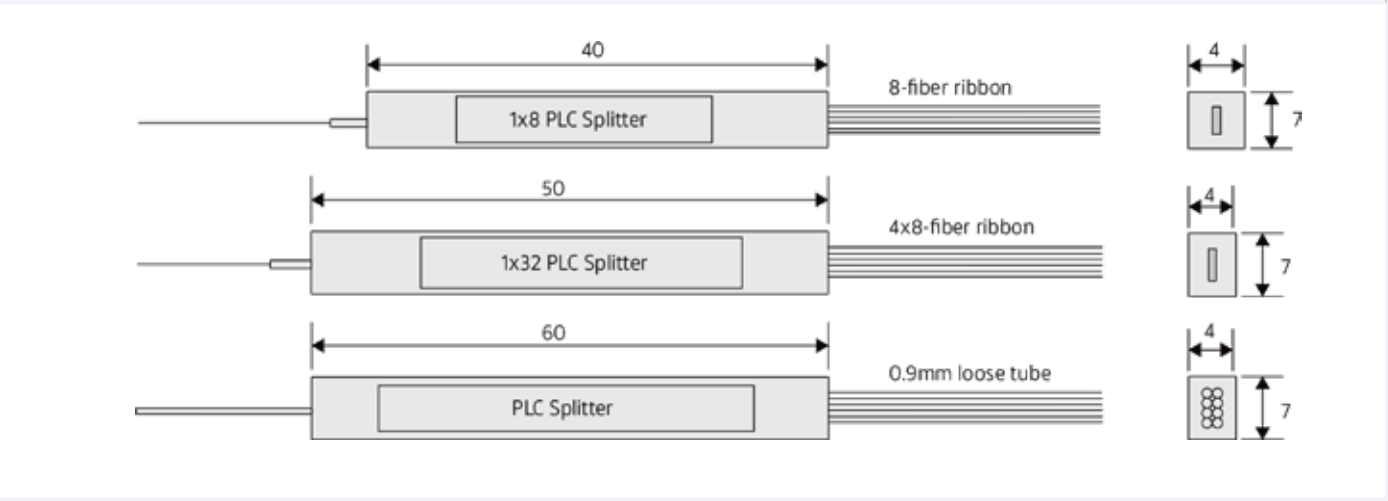
☒ Passive optical networks(PON)

Mini Type PLC Splitters

Compact, high-performance passive optical splitters designed for space-constrained fiber joint closures. Featuring a durable stainless-steel sealed housing, they provide uniform signal distribution with low insertion loss and reliable long-term performance across FTTH, PON, and enterprise networks.



Parameter	Specification			
Input port (pc)	1 or 2			
Output port (pc)	2 / 4 / 8	16	32	64
Steel tube size (mm)	50×7×4 55×7×4 60×7×4	60×12×4	80×20×6	100×40×6
Housing material	Stainless Steel			
Connector type	SC / FC / ST / LC / MU			
Customization	Steel tube size can be customized			

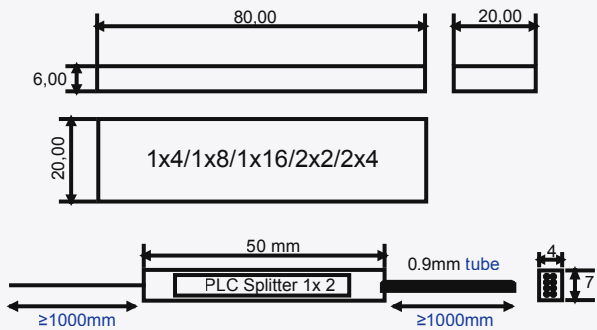
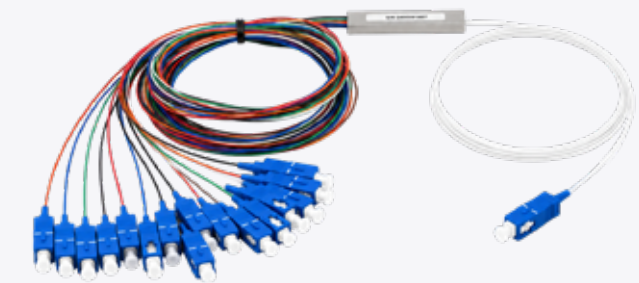


Steel Tube Splitters

Steel Tube Splitters are a type of optical power management device that is fabricated using silica optical waveguide technology. It features small size, high reliability, wide operating wavelength range and good channel-to-channel uniformity. We provide whole series of 1xN and 2xN splitter products that are tailored for specific applications.

Features

- Low insertion loss
- Low PDL
- Excellent channel-to-channel uniformity
- High return loss and Good repeatability
- Wide wavelength range



Compact Design.
Reliable Signal Splitting

Applications & Deployment

- ☒ LAN, WAN and Metro Networks
- ☒ FTTH project & FTTX Deployments
- ☒ CATV System
- ☒ GPON, EPON
- ☒ Fiber Optic Test Equipment
- ☒ Data-base Transmit Broadband Net

1xN PLC Splitters

Parameters	1×2	1×4	1×8	1×16	1×32	1×64	1×28
Operating Wavelength (nm)	1260~1650						
Fiber Type	G652G or customer specified						
Insertion Loss (dB)	3.8	7	10.2	11.5	16.8	20.5/21.0	24.2/24.5
Loss Uniformity (dB)	0.4	0.5	0.8	1	1.2	2	2.5
Return Loss (dB)	55	55	55	55	55	55/50	55/50
Polarization Dependent Loss(dB)	0.2	0.2	0.2	0.2	0.2	0.35	0.35
Directivity (dB)	55	55	55	55	55	55	55
Wavelength Dependent Loss (dB)	0.3	0.3	0.3	0.5	0.5	0.5	0.5
Temperature Stability (-50 to 80 °C) (dB)	0.4	0.4	0.4	0.5	0.5	0.5	0.5
Operating Temperature (C)	-50~85						
Storage Temperature (C)	-50~85						

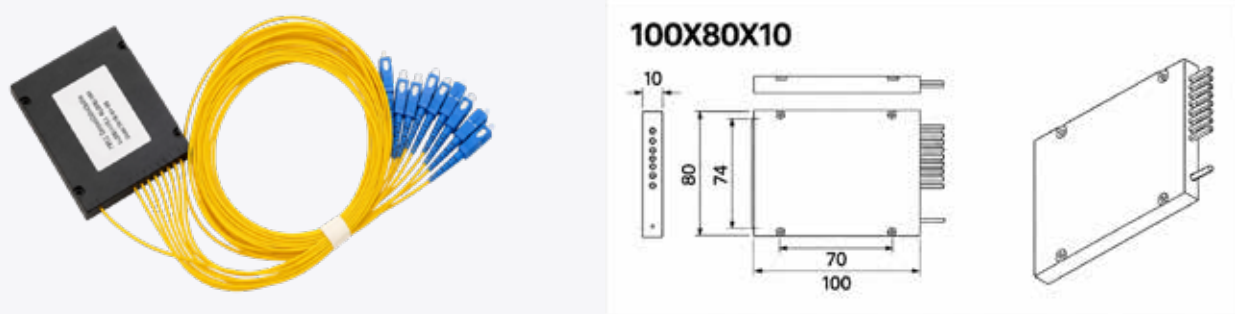
2xN PLC Splitters

Parameters	1×2	1×4	1×8	1×16	1×32	1×64	1×28
Operating Wavelength (nm)	1260~1650						
Fiber Type	G652G						
Insertion Loss (dB)	4.2	7.5	10.6	11.9	17.2	20.8	23.8
Loss Uniformity (dB)	0.8	1	1.2	1.5	1.8	2	2
Return Loss (dB)	50	50	50	50	50	50	50
Polarization Dependent Loss(dB)	0.2	0.2	0.2	0.2	0.2	0.35	0.35
Directivity (dB)	55	55	55	55	55	55	55
Wavelength Dependent Loss (dB)	0.6	0.6	0.6	0.8	1	1	1.2
Temperature Stability (-50 to 80 °C) (dB)	0.6	0.6	0.6	0.8	1	1	1
Operating Temperature (C)	-50~85						
Storage Temperature (C)	-50~85						

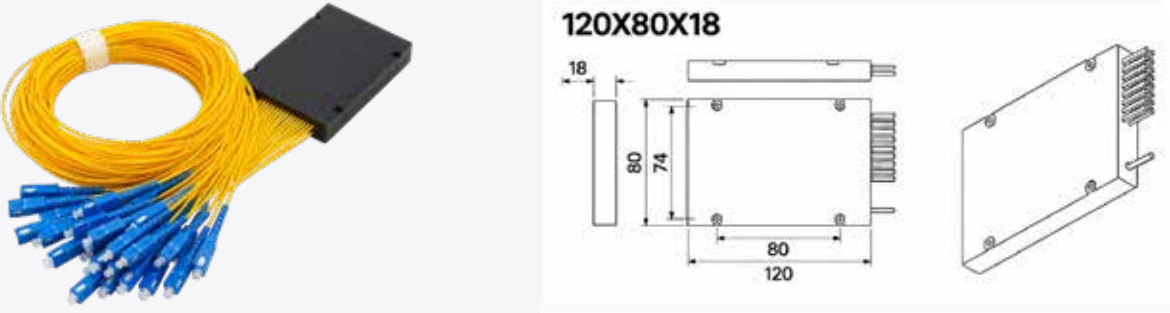
Notes: Specified without connectors. Add an additional 0.15 dB loss per connector.

ABS Box PLC Splitter

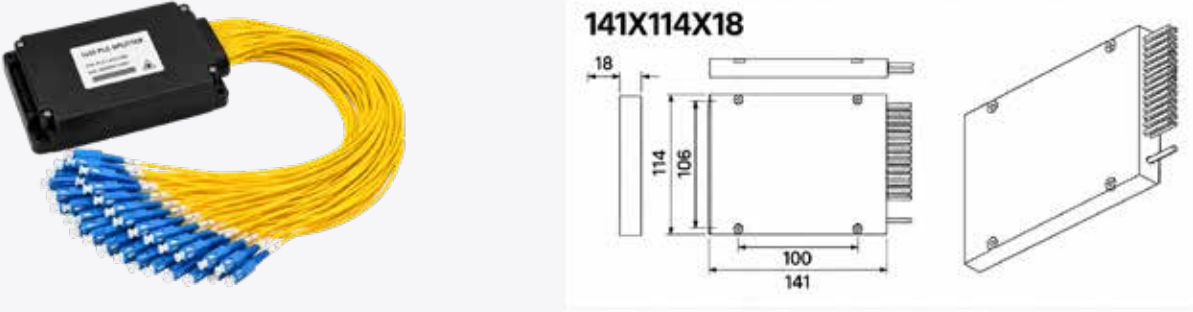
The ABS Box PLC Splitter is compatible with fiber cross connect cabinets and is designed for reliable, uniform signal distribution across multiple output ports. Available in 1xN and 2xN specifications, the compact ABS housing provides robust mechanical protection for the internal PLC chip while maintaining a lightweight, space-efficient profile suitable for a wide range of fiber network installations and cabinet environments.



1x8



1x16



1x32

Features

- Compatible with fiber cross connect cabinets
- Optimised for efficient optical signal transmission.
- Available in various configurations to suit different network architectures.
- High Optical Reliability
- FTTx Ready
- Compact ABS Housing
- Low Insertion Loss

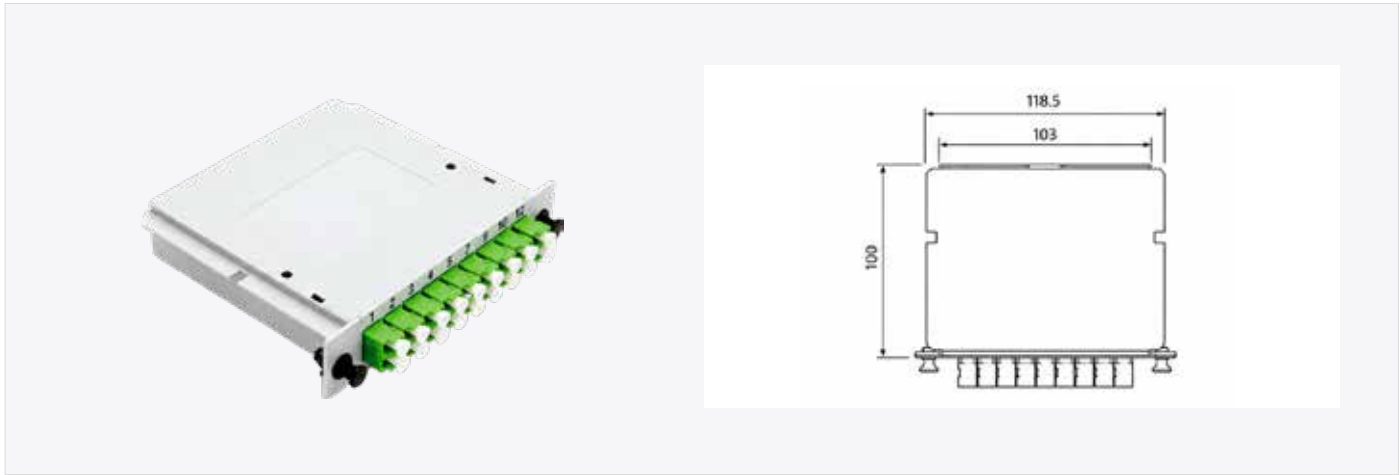
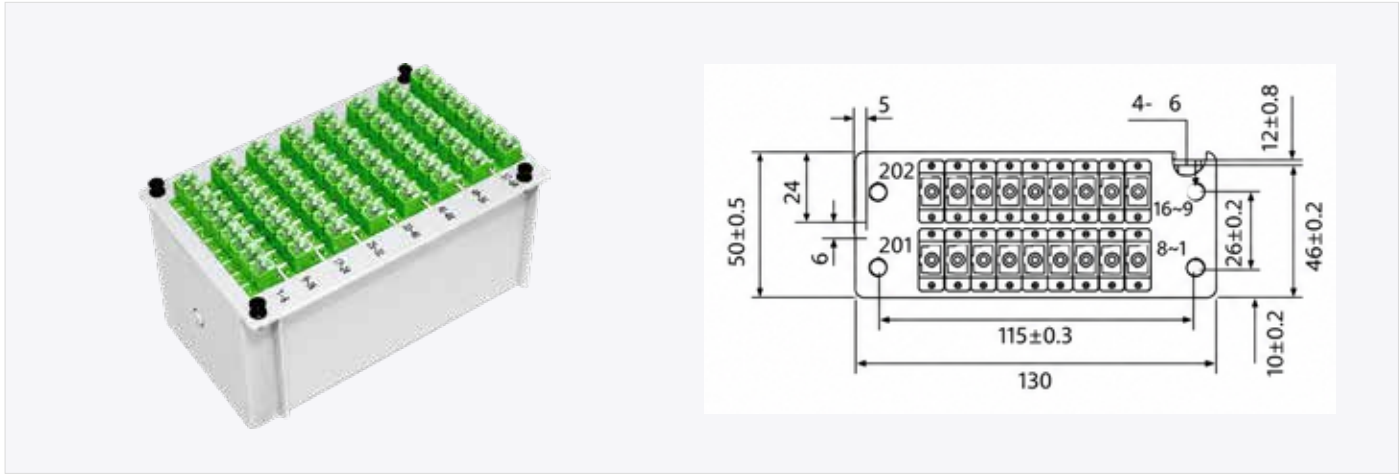
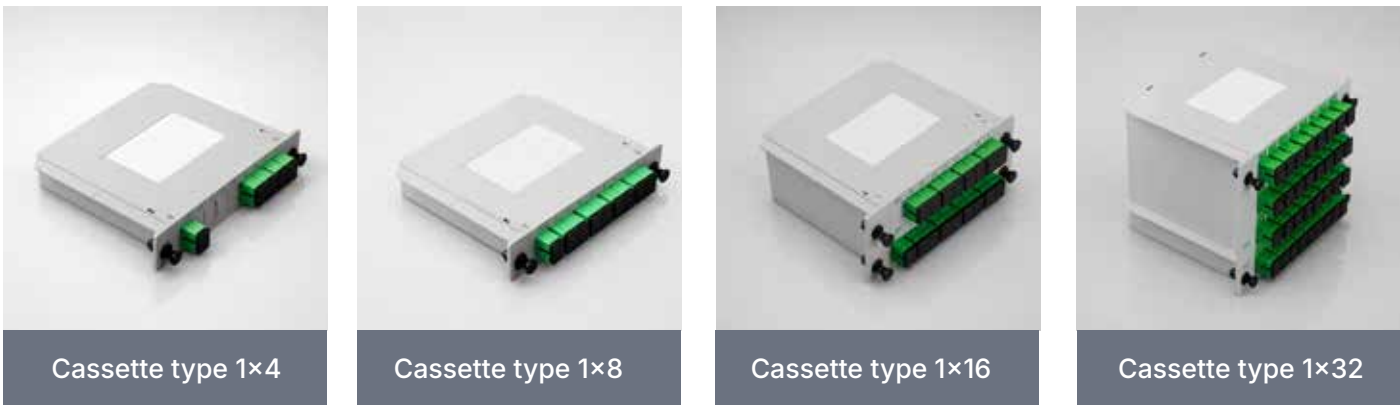
Specification			
Input Port (PC)	1 or 2		
Pigtail length	1m/ 1.5m / 2m		
Output Port (PC)	2/4/8	16/32	64
Box Size (mm)	100×80×10	120×80×18 100×80×10	120×80×18 141×114×18
Connector Type	SC/FC/ST/LC/MU		

Applications & Deployment

- ☒ Fiber cross connect cabinet installations
- ☒ FTTH and last-mile fiber network deployments
- ☒ PON and passive optical network architectures
- ☒ FTTB and FTTC network infrastructure
- ☒ Enterprise and campus fiber networks
- ☒ BharatNet and government broadband deployments

Cassette Type PLC Splitter

The Cassette Type PLC Splitter is ideal for installation in FAT (Fiber Access Terminal) boxes and is engineered for plug-in type deployment in fiber distribution environments requiring organised, space-efficient signal splitting. Being a renowned splitter manufacturer, Byteworx creates 1xN and 2xN specifications, the cassette form factor enables fast, tool-free installation with reliable long-term optical performance across a wide operating temperature and wavelength range.



Features

- Ideal for installation in FAT box environments
- Compact cassette-style design
- Plug-in installation
- Space-efficient configuration
- Convenient installation & maintenance
- FTTX network ready
- Wide operating temperature and wavelength range

Specification

Product Name	Plug-in Type Fiber Optic Splitter	Connector Type	SC, FC, ST, LC, MU
Installation Modes	Plug-in Type	Insertion Loss	<13.7 dB
Operating Temperature	-50°C ~ 85°C	Operating Wavelength	1260-1650 μm
Packaging Material	ABS+PC	Output Port	2, 4, 8, 16, 32

Applications & Deployment



FAT (Fiber Access Terminal) box installations



FTTH and last-mile fiber network deployments



PON and passive optical network architectures



High-density fiber distribution points



Enterprise and campus fiber networks



BharatNet and government broadband infrastructure

FBT Splitter

The FBT (Fused Biconical Taper) Splitter utilises precision technology to combine or distribute light from single or multiple inputs to single or multiple outputs, bi-directionally. Designed for power splitting and signal tapping in telecommunications equipment, CATV networks, and test equipment, FBT splitters offer versatile application options. We manufacture splitters in a variety of styles, sizes, port configurations, split values, and wavelength specifications.



Features

- Various coupling ratio options available
- Single-mode and multimode variants available
- Low insertion loss and low PDL (Polarisation Dependent Loss)
- Environmentally stable construction
- Industry standard and custom housing available
- Wide variety of connector types available
- Available in 1x2, 1x4, and 1xN customised coupler configurations

Applications & Deployment

✓ Optical fiber communication systems

✓ Optical fiber CATV networks

✓ Passive Optical Network (PON) deployments

✓ Optical amplifiers

✓ Optical access networks and LAN

✓ Optical fiber sensor applications & Monitoring systems

Coupling Ratio	Insertion loss (dB)	
	P Grade	S Grade
50/50	≤ 3.4	≤ 3.6
45/55	≤ 3.7/2.7	≤ 3.8/2.9
40/60	≤ 4.4/2.6	≤ 4.7/2.8
35/65	≤ 4.8/2.0	≤ 4.9/2.10
30/70	≤ 5.7/1.9	≤ 6.0/2.0
25/75	≤ 6.9/1.3	≤ 6.5/1.4
20/80	≤ 7.6/1.2	≤ 8.0/1.3
15/85	≤ 8.6/0.7	≤ 8.9/0.88
10/90	≤ 11.0/0.65	≤ 11.5/0.8
5/95	≤ 14.2/0.4	≤ 14.8/0.5
2/98	≤ 18.5/0.25	≤ 19.0/0.35
1/99	≤ 21.5/0.2	≤ 22.0/0.3
Excess Loss(Typ.)(dB)	≤ 0.1	
PDL(Max.)(dB)	≤ 0.1	
Operating Wavelength(nm)	1310±40, 1550±40, 1310/1550±40, 1310/1550/1490±40 or custom wavelength	
Directivity(dB)	≥ 55	
Return Loss(dB)	≥ 50	
Port Configuration	1×2 or 2×2	

Patch Cords & Pigtails

Fiber Optic Indoor Pigtail

The Fiber Optic Indoor Pigtail is a factory-terminated fiber cable with a precision connector on one end and loose fibers on the other, designed for network patching and fiber termination in indoor environments. Available in PC, UPC, and APC polishing options for both single-mode and multimode fibers, it delivers reliable optical performance and long-term stability across various indoor fiber applications.



Features

- PC / UPC / APC polishing compliant
- Low insertion loss and high return loss
- High performance and stability
- 400x microscope inspection compliant
- Wide operating wavelength: 1260 – 1650 nm
- Wide operating temperature: -50°C to +85°C
- Excellent repeatability and interchangeability
- Single-mode and multimode fiber constructions available
- Connector types: FC / SC / LC / ST / MU / DIN / D4 / E2000 / MTRJ / SMA / LX.5
- Single-mode fiber models: G652D, G657A1, G657A2, G657B3, G655
- Multimode fiber models: OM1, OM2, OM3-150, OM3-300, OM4-550, OM5
- Cable types: Ø0.9 mm, Ø2.0 mm, Ø3.0 mm
- Cable construction: Simplex, multicore colourful, multicore bundle, multicore distribution
- Jacket materials: PVC, LSZH, OFNP, OFNR, PE, TPU
- Core numbers: 4, 6, 8, 10, 12, 24 (multicore)
- Standard lengths: 1, 2, 3, 5, 10m (customised lengths available)

Specifications		
Connector Type		FC, SC, LC, ST, MU, DIN, D4, E2000, MTRJ, SMA, LX.5
Fiber Model	Single-Mode	G652D, G657A1, G657A2, G657B3, G655
	Multimode	OM1, OM2, OM3-150, OM3-300, OM4-550, OM5
Cable Types		Ø0.9 mm, Ø2.0 mm, Ø3.0 mm
Cable Construction		Simplex, multicore colourful, multicore bundle, multicore distribution
Jacket		PVC, LSZH, OFNP, OFNR, PE, TPU
Core Number		multicore (4, 6, 8, 10, 12, 24.....)
Length		1, 2, 3, 5, 10m (or customised)

Applications & Deployment

☒ Fiber distribution frames and patch panels

☒ Optical distribution cabinets and enclosures

☒ Indoor fiber termination and splicing points

☒ FTTH and last-mile indoor network installations

☒ Enterprise and campus fiber networks

☒ Data centre passive optical infrastructure

☒ ODF (Optical Distribution Frame) terminations

☒ PON and GPON network indoor termination points

Patch Cords & Pigtails

Fiber Optic Outdoor Waterproof Pigtail

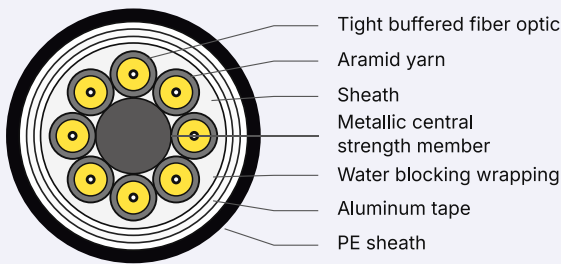
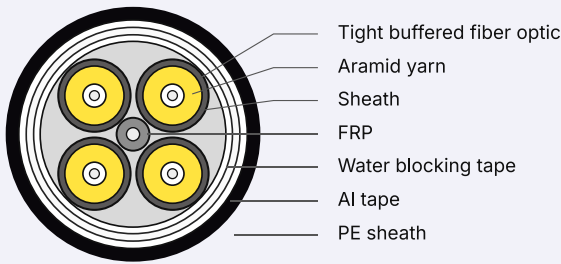
The Fiber Optic Outdoor Waterproof Pigtail features a GYJTA cable with precision connector, designed for reliable outdoor performance. Its waterproof construction with tight-buffered fibers, aramid yarn, FRP, water-blocking and aluminium tapes, and PE sheath provides protection against moisture, mechanical stress, and environmental damage. Available in single-mode and multimode variants with multiple core counts and connector options.



Specifications		
Connector Type		FC, SC, LC, ST, MU, MTRJ, MPO
Fiber Model	Single-Mode	G652D, G657A
	Multimode	OM1, OM2, OM3, OM4, or other fiber types
Cable types		Φ0.9mm, Φ2.0mm, Φ3.0mm
Cable construction		Simplex, multicore colourful, multicore bundle, multicore distribution
Jacket		PE (Polyethylene), or other contracted material
Core number		multicore (2, 4, 6, 8, 10, 12, 24.....)
Length		1, 2, 3, 5, 10m (or customised)

Features

- Manufactured using GYJTA outdoor cable construction
- Waterproof construction — excellent performance in outdoor and harsh environments
- Low insertion loss and high return loss
- Easy to splice and convenient laying
- Single-mode and multimode fiber optional
- Excellent repeatability and interchangeability
- Good mechanical and environmental characteristics
- Flame retardant and meets the requirement of relevant standards
- Available in 2, 4, 6, 8, 12 and 24 core configurations



Applications & Deployment



Outdoor fiber termination and splicing points



FTTH aerial and buried last-mile deployments



Fiber joint closure terminations



Outdoor optical distribution cabinets



BTS and telecom shelter fiber connections



BharatNet and rural broadband infrastructure



Smart city outdoor fiber deployments



Coastal and high-humidity environment deployments

Face Plate

The Face Plate, also known as Wall Outlet Box is a compact, surface-mounted fiber optic termination enclosure designed for indoor and residential FTTH installations. Engineered for wall-mount or DIN rail deployment, the Wall Outlet Box provides a clean, accessible termination point for fiber optic drop cables at the subscriber end – accommodating Adaptors, splice trays, and pigtail routing within a slim, discreet housing. Available in multiple configurations to suit varying port counts and installation requirements, the Wall Outlet Box delivers a reliable, professional-grade termination solution for last-mile fiber deployments.



Specifications	
Fixing	Screwed on the wall / On a fitted wall box / On a DIN rail with an adapter (included)
Cable Entries	6 entries: on the right, left, under, below, on the back.
Cable Ø	2.0 to 6 mm
Cable Fastening	Clip
Outputs	SC / LC
Fiber Routing	Bending radius: 15 mm
Routing Zone	Up to 1.5 m for 250 µm / 1 m for 900 µm
Splicing Support	Up to 4 individual heat shrinks of 40 or 45 mm length for fusion splicing
Operating Temperature	-25°C to +70°C

Models & Variants



Features

- Sleek, low-profile design that blends with interiors
- Made with flame-retardant ABS, RoHS compliant
- Dust protection for adapters and fiber
- Integrated splice holder with organized fiber routing
- Snap-lock cover - no tools needed to open/close
- Tamper-resistant, secure closure
- Paintable white finish for premium look
- Lightweight and sturdy for long-term use

Splice Box



Applications & Deployment

☒ FTTH last-mile subscriber termination points

☒ Residential fiber optic drop cable termination

☒ Indoor fiber distribution and access points

☒ Enterprise and campus in-building fiber terminations

☒ BharatNet and government broadband last-mile deployments

☒ Smart home and smart building fiber installations

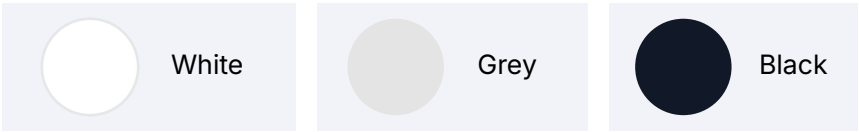
ODF Cabinet

The ODF Cabinet is a high-capacity, multi-function fiber management enclosure designed for central office, exchange, and outdoor fiber distribution environments. Constructed from SMC material with an IP65 protection rating, the double-layer design separates splitter and fiber storage functions from splicing, cross-connecting, and fiber distribution – enabling organised, efficient cable management and simplified maintenance access. Available in 144, 288, and 576 core configurations, the cabinet provides a scalable, secure solution for high-density fiber termination and distribution requirements.



Specifications	
Material	SMC
Cores	144 Core, 288 Core, 576 Core
Relative Humidity	<=85% (at +30°C) (indoor), <=95% (at +40°C) (outdoor)
Working Temperature	-5°C ~ +40°C (indoor), -40°C ~ +60°C (outdoor)

Available Colour



Features

- Can be embedded into wall design for outdoor use
- Wall mount kits provided in standard specification
- Adaptor slots – no screws or tools required for installing adaptors
- Designated space for adding splitters within the enclosure
- Double-layer design for space-efficient installation and maintenance
- Lower layer for splitters and over-length fiber storage
- Upper layer for splicing, cross-connecting, and fiber distribution
- Accommodates both cable glands and tie-wraps
- Lock provided for additional security
- Available in White, Black, and Grey
- Protection Rating: IP65
- Material: SMC
- Core capacity: 144 Core, 288 Core, 576 Core
- Relative humidity: ≤85% at +30°C (indoor) | ≤95% at +40°C (outdoor)
- Working temperature: -5°C to +40°C (indoor) | -40°C to +60°C (outdoor)

Applications & Deployment

☒ Central office and exchange fiber distribution

☒ Outdoor fiber cross-connection and termination points

☒ FTTH and FTTX aggregation nodes

☒ Telecom network fiber management enclosures

☒ BharatNet and government broadband distribution infrastructure

☒ Enterprise campus fiber distribution frames

FAT Box 16

A Fiber Access Terminal (FAT) Box is a robust distribution point connecting feeder and subscriber drop cables in FTTH networks. It houses PLC splitters, splice trays, and adaptors for efficient fiber splicing, signal splitting, and patch cord management—simplifying installation and maintenance.

Byteworx FAT Boxes are made from high-grade industrial PC-ABS, with IP65 protection for reliable indoor and outdoor deployment. Available in 16-core and 32-core configurations, they feature reinforced ribs for impact resistance, front-access locking doors, and “Z” type splitter guide rails for secure, organized, and field-friendly fiber management.



FAT Box 16 Details	
Dimensions (W x H x D)	268 mm x 325 mm x 107 mm
Splice capacity	24 fibers
Material	PC-ABS Finish: Matt
Cable mounting	Vertical
Incoming & Outgoing cable ports	2 x 16 mm diameter 16 fibers of 2/3 mm diameter
Patch Cord Outlet	From bottom sides

Features & Specifications

- Cable entry and patch cord outlet glands: Rubber Grommet
- Splitter type: PLC Cassette Type | Configuration: 1x8 or 1x16
- Splitter connectors: SCPC / SC-APC | Fiber type: G.657A
- Adaptor types: SC-PC, SC-APC, LC-PC
- "Z" Type Splitter Guide Rails that helps the field engineer to access to bottom splitter connectors without disturbing the neighbouring connectors
- Ribs- Top Door (the top door of enclosure is supported with Ribs for additional strength)
- Eclosure has unique features to accommodate Pad Lock
- Dual M6 SHCS ensures effective sealing
- Earthing arrangement is provided on need basis
- Enclosure can be effectively mounted on poles using Pole Mount Kit

Splice Tray	
Material	ABS
Colour	White/Grey
Dimension (T x W x L)	9 mm X 106 mm X 175 mm
Capacity	12 fibers, depending on the loose tube configuration
Max. Number	1

Applications & Deployment

☒ Telecommunication networks

☒ CATV networks

☒ FTTH access network subscriber distribution points

☒ Local area networks

☒ Data communications networks

☒ BharatNet and government broadband last-mile deployments

FAT Box 32

The FAT Box 32 is a high-capacity fiber distribution enclosure designed for reliable and organized fiber management in FTTH and FTTx networks. Manufactured from high-grade industrial PC-ABS material, it offers a strong, durable and weather-resistant housing for critical fiber connectivity components.



FAT Box 32 Details	
Port Capacity	32-port
Splice capacity	Up to 32 Cores
Mounting Options	Wall Mount / Pole Mount
PLC Splitter Configuration	1×32 PLC splitter; multiple 1×8 mini PLC splitter option
Protection Rating	IP65 weatherproof

Features & Specifications

- High-capacity 32-port fiber distribution enclosure — manufactured from high-grade industrial PC-ABS plastic
- Splice capacity: Up to 32 cores, expandable depending on internal configuration
- Available with 1x32 PLC splitter configuration with 32 SC adaptor ports for full subscriber distribution
- Cassette splitter design option available — offering a flexible ODF-style solution for centralised optical splitting
- Splitter connectors: SC-PC / SC-APC | Fiber type: G.657A
- Adaptor types: SC-PC, SC-APC, LC-PC
- Front-access locking door for secure, organised fiber management
- "Z" Type Splitter Guide Rails — allows field engineers to access splitter connectors without disturbing neighbouring connections
- Separate internal function areas for splitter modules, splice trays, and cable management rods
- Enclosure has unique features to accommodate Pad Lock for enhanced security
- Earthing arrangement provided on need basis
- Enclosure can be effectively mounted on poles using Pole Mount Kit
- Rubber grommet cable entry and patch cord outlet glands for effective sealing

Complete 32-Port Fiber Distribution in a Compact, Weatherproof Enclosure

Applications & Deployment

- ☒ Telecommunication networks
- ☒ CATV networks
- ☒ FTTH access network subscriber distribution points
- ☒ Local area networks
- ☒ Data communications networks
- ☒ BharatNet and government broadband last-mile deployments

Joint Closure Flat Type

The Joint Closure Flat Type is a high-capacity, flat-profile fiber splice enclosure designed for underground, duct, and manhole installations where a dome configuration is not suitable or practical. This wide, low-profile ABS and PP joint closure is particularly well suited to horizontal duct and underground manhole environments — offering the same IP68 weatherproof protection, heat shrink cable entry sealing, and "C" clamp base sealing as round type, while providing more accessible tray layout for field technicians working in confined spaces.



Features & Specifications

- Joint Closure Flat type configuration
- Dimensions: 380mm x 280mm x 125mm
- Material: ABS & PP
- Cable entry ports: 6/8 round + 1 oval
- Cable entry sealing: Heat shrink
- Base sealing: "C" clamp provisioned
- Number of splice trays: 8 / 12
- Compatible with all types of single fiber optic cable
- Applicable for cut, uncut, and taut sheath applications
- Central strength member fastening system included
- Ribbed closure construction — lightweight and structurally robust
- Resistant to chemical and UV attack.
- Complete splicing accessories kit provisioned
- Minimum tool installation
- Pole mount and wall mount compatible (optional)
- Protection class: IP68
- Operating and storage temperature: -25°C to +65°C
- Relative humidity: ≤85% at +30°C

Models & Variants



Joint closure flat type 96



Joint closure flat type 144

Applications & Deployment

- | | |
|--|--|
| ☒ Telecommunication networks | ☒ Pipeline fiber optic junction enclosures |
| ☒ Buried fiber cable splice management | ☒ Underground duct and manhole fiber splice points |
| ☒ High-density backbone and feeder network splice infrastructure | ☒ BharatNet underground broadband infrastructure |

Joint Closure Round Type

The Joint Closure Round Type is a compact, dome-profile fiber splice enclosure designed for aerial, buried, and outdoor network installations requiring reliable optical and mechanical continuity at cable junction points. The dome configuration provides robust 360-degree environmental protection with heat shrink cable entry sealing, "C" clamp dome and base sealing, and a ribbed ABS and PP construction that delivers structural integrity against physical impact, UV exposure, and chemical degradation. Suitable for cut, uncut, and taut sheath cable applications and provisioned with a complete splicing accessories kit.



Models & Variants



Joint closure round type 24



Joint closure round type 48



Joint closure round type 96

Features & Specifications

- Dimensions (HxD): 500mm x 210mm
- Round dome type configuration
- Material: ABS & PP
- Cable entry sealing: Heat shrink
- Dome and base sealing: "C" clamp provisioned
- Compatible with all types of single fiber optic cable
- Applicable for cut, uncut, and taut sheath applications
- Central strength member fastening system included
- Ribbed closure construction — lightweight and structurally robust
- Chemical and UV attack resistant
- Complete splicing accessories kit provisioned
- Minimum tool installation
- Pole mount and wall mount compatible (optional)
- Protection class: IP68
- Operating and storage temperature: -25°C to +65°C
- Relative humidity: ≤85% at +30°C

*360° Protection.
Built for Every Connection.*

Applications & Deployment

- | | |
|--|--|
| ☒ Telecommunication networks | ☒ Pipeline fiber optic junction enclosures |
| ☒ Buried fiber cable splice management | ☒ Underground duct and manhole fiber splice points |
| ☒ High-density backbone and feeder network splice infrastructure | ☒ BharatNet underground broadband infrastructure |

FMS Wall Mount

The Fiber Management System (FMS) Wall Mount is a robust fiber optic enclosure designed to manage connections from the external fibre network to fiber routers through splicing technology. Combining Fiber Termination and Fibre Distribution in one frame, it ensures efficient, stable fiber management. Suitable for indoor and outdoor wall or pole mounting, it supports FC/PC, SC/PC, ST/PC, FC/APC, and SC/APC adaptors and pigtails, with single or double-door lockable access for component protection. Available in 24F, 48F, and 96F configurations, the Byteworx FMS delivers reliable and organised fiber connectivity across diverse network environments.



Wall/Pole Mountable Fiber Management System
24F/48F/96F.

Available Models & Variants



FMS wall mount 24F



FMS wall mount 48F



FMS wall mount 96F

Features

- Direct wall and pole mountable unit suitable for indoor and outdoor applications — available with grounding nuts
- Fully compatible with industry-grade fiber adaptors — FC/PC, SC/PC, ST/PC, FC/APC, SC/APC
- Single and double door access with lock and key for maximum protection of optical components
- Shelf inside the unit provides excess length pigtail storage while maintaining correct bend radius
- Fibre in and fibre out ports for efficient connection management from outside the fiber rack to the fiber routers
- CRCA steel construction with 7-tank process powder coating for durability and corrosion resistance
- Available in 24F, 48F, and 96F fibre capacity configurations
- Modular splice trays, lockable doors, and dustproof corrosion-resistant housing
- Compact and space-efficient design for easy installation in space-constrained environments

Engineered For High-density
Fiber Deployments

Applications & Deployment

- | | |
|---|--|
| ☒ Backbone and Telecommunications Room installations | ☒ Main Distribution Room and Outside Plant deployments |
| ☒ Mining and Military applications | ☒ Road and Rail infrastructure |
| ☒ Transmission boxes for substations, CCTV, and FTTH applications | ☒ Factory and automation applications |
| ☒ Central offices, distribution points, and network hubs | ☒ BharatNet and government broadband last-mile deployments |

FMS Rack Mount

The Rack Mount Fiber Management System is a modular enclosure for cross-connect, interconnect, splicing, and termination of outdoor and FTTH drop cables. It integrates fiber splicing, cable winding & storage, and interface management in a single frame, combining Fiber Termination and Fiber Distribution for reliable, high-density fiber management.

Available in 2U (24F), 3U (48F), and 4U (96F) configurations with SC/APC adaptors, it fits standard 19-inch and 21-inch racks, making it suitable for telecom, enterprise, and data centre environments.



Available Models & Variants



FMS rack mount 24F



FMS rack mount 48F



FMS rack mount 96F

Features

- High-density multifunctional unit — available in fixed or sliding type rack mount made of high-quality CRCA steel
- Fits comfortably into new and existing interconnect, cross-connect, and co-location environments
- Removable top cover with sliding tray for quick access to service connections
- All models allow multiple openings for cable entry and exit
- Slide-out mechanism designed to provide excellent cable management and organise cable slack
- Individual and modular coupler plates with GLIDE mounting system for maximum protection of optical components
- Excess length of pigtail storage provided inside the shelf to maintain the bend radius of the pigtail
- 100% tested for mechanical and optical characteristics
- Main frame fixed to the rack with only the inside tray extending outside — improving stability of the system
- Provides easy rack front access to rear compartment and jumpers
- Compatible with FC, SC, LC, LC/APC, ST, SC/APC, and E2000 connector styles
- Suitable for standard 19-inch and 21-inch racks

Applications & Deployment



Backbone and Telecommunications Room installations



Main Distribution Room and Outside Plant deployments



Mining and Military applications



Road and Rail infrastructure



Transmission boxes for substations, CCTV, and FTTH applications



Factory and automation applications



Data centres and network operation centres



BharatNet and government broadband last-mile deployments

FTTR – Invisible Fiber Cable

The Invisible Fiber Optic Cable or Invisible Fiber Optic Patch Cord for FTTR is designed for indoor optical networks, offering a discreet and high-performance solution for modern fiber installations. Its ultra-thin and transparent design allows seamless integration into any indoor environment, making it perfect for fiber-to-the-room deployments. The fiber outer diameter is 0.9 mm and is made of all transparent materials — it can be fixed directly to the wall using dedicated glue, and the G.657B3 fiber enables worry-free bending around the many tight corners typically found inside buildings and rooms.



Features

- Invisible fiber design — ultra-thin 0.9 mm cable with a transparent finish that blends into surroundings for discreet indoor use
- High-performance SC/APC connectors ensuring low insertion loss and high return loss for stable signal transmission
- Insertion loss: ≤0.3dB | Return loss: ≥60dB
- Compact and flexible — easy to route around corners, walls, and ceilings without affecting performance
- Built with G.657A2/B3 bend-insensitive fiber for excellent bend performance and durability
- Durable outer coating resistant to UV rays and environmental wear ensuring longevity
- Can be glued along walls — soft and flexible, perfect for surface mounting with adhesive
- Compatible connector types: SC/UPC, SC/APC, LC
- Available in spool design for 20 m, 30 m, and 40 m fiber lengths
- Supports indoor surface routing along walls, slots, ceilings, door frames, and corners
- Compliant with CE, RoHS, and ISO 9001 standards

Zero Visual Clutter.
Seamless Connectivity.

Applications & Deployment

- | | |
|---|--|
| ☒ FTTR installations — high-speed connectivity with invisible fiber, without compromising aesthetics. | ☒ Indoor telecom systems for LAN, WAN, and metro networks |
| ☒ Fiber to the room of indoor living units (ILUs) and multiple dwelling | ☒ High-density residential buildings and apartment complexes |
| ☒ Hotels, co-working spaces, and premium commercial environments | ☒ Factory and automation applications |

FTTR - Installation Gun

The Invisible Fiber Cable Optic Wiring Glue Gun is suitable for hot-melt fixation construction of FTTR indoor invisible fiber optic wiring. It is equipped with a glue outlet with a slot – the amount of glue applied is stable and the effect is clean and professional. It is equipped with an invisible fiber optic cable reel fixing post and an optical fiber emergence groove for easy wiring, simplifying operating procedures.



Hot-melt glue gun for invisible FTTR fiber wiring — no drilling.

Features

- Convenient and fast simultaneous glue and fiber dispensing for a more beautiful, convenient, and efficient wiring experience
- 360° adjustable glue gun nozzle — horizontal and vertical flexible switching, effectively solving the problems of included angles, dead corners, and corners during the wiring process
- Adjustable temperature control for continuous operation across different installation conditions
- Built-in cable reel fixing post and fiber emergence groove for organised, clean installation
- Stable glue dispensing — precise, consistent application along walls, baseboards, and door frames
- No drilling, no nailing, no perforation — zero damage to existing indoor structures
- Lightweight and ergonomic design for extended field use
- Suitable for all indoor surface types — plaster, wood, tile, and concrete walls
- Compatible with 0.9 mm and 1.2 mm invisible fiber optic cable

Precision Tool For
Seamless Fiber Routing

Applications & Deployment



FTTR installations — high-speed connectivity with invisible fiber, without compromising aesthetics.



Smart home networks — supports modern devices and systems requiring efficient and visually unobtrusive cabling



Indoor telecom systems — ensures stable fiber connections for LAN, WAN & metro networks in office buildings and commercial spaces



Enterprise solutions — ideal for discreet cabling in corporate environments enhancing both performance and appearance



Fiber to the room of indoor living units (ILUs) and multiple dwelling units (MDUs)



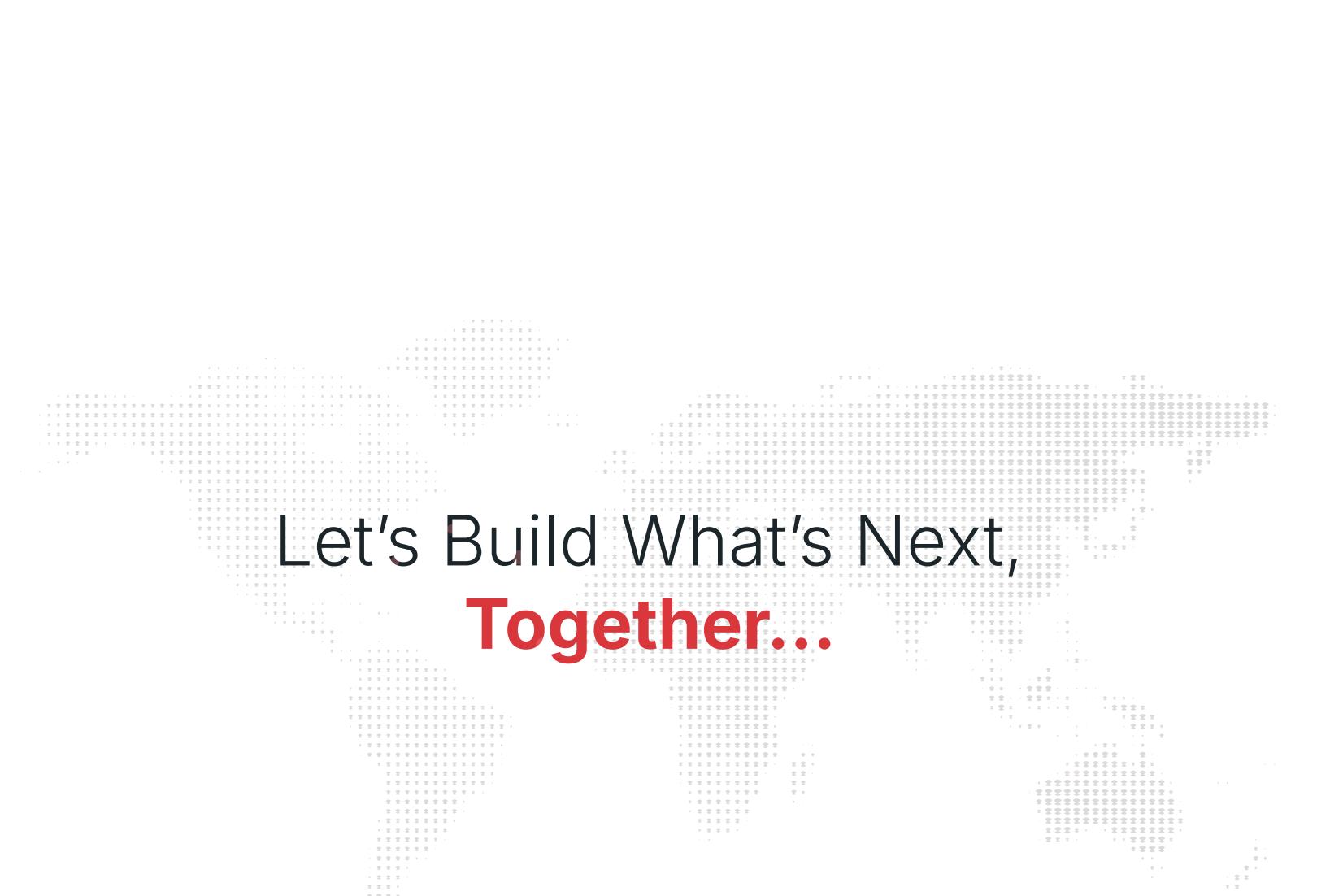
High-density residential buildings and apartment complexes



Old residential areas and offices where traditional cable entry is not acceptable



Hotels, co-working spaces, and premium commercial environments



Let's Build What's Next,
Together...



BYTEWRX™
Connectivity, Simplified

— **Registered Office**

12/74, Pioneer Complex Site-IV, Industrial Area
Sahibabad, Ghaziabad, Uttar Pradesh - 201010

R&D Office: Bengaluru

Sales Offices: Gurugram, Jaipur

Manufacturing: Chennai, Bengaluru & Ahmedabad

GET IN TOUCH



0120 - 4129371
+91 98106 45757



info@customwrapsindia.com
Mail us for enquiries



www.customwrapsindia.com
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