



INDOOR CONNECTIVITY SOLUTIONS



At Emtelle, we deliver high-performance indoor fiber solutions designed for speed, security, and reliability. With cutting-edge technology and top safety certifications, we ensure seamless connectivity for modern buildings.

Start Thinking Inside The Building
Together, Everything Connects



Emtelle offers a comprehensive range of innovative and high-performance solutions, specifically engineered for internal use.

In today's digital landscape, reliable, high-speed connectivity is essential. Our indoor solutions are designed to meet the complex demands of modern buildings, delivering seamless network performance, ensuring safety, and supporting the evolving needs of contemporary infrastructure.



Pre-Connected Options

Eliminates on-site splicing, saving time and reducing complexity.



Low Fire Hazard Materials

Complies with strict fire safety regulations, minimizing risks.



High Fiber Density

Maximizes performance with minimal space usage.



Enhanced Safety

Crafted from low fire hazard materials, meeting the highest safety standards to protect your property and its occupants.



Effortless Installation

Our streamlined process ensures your network is up and running faster, providing enhanced connectivity without the usual delays of complex installations.



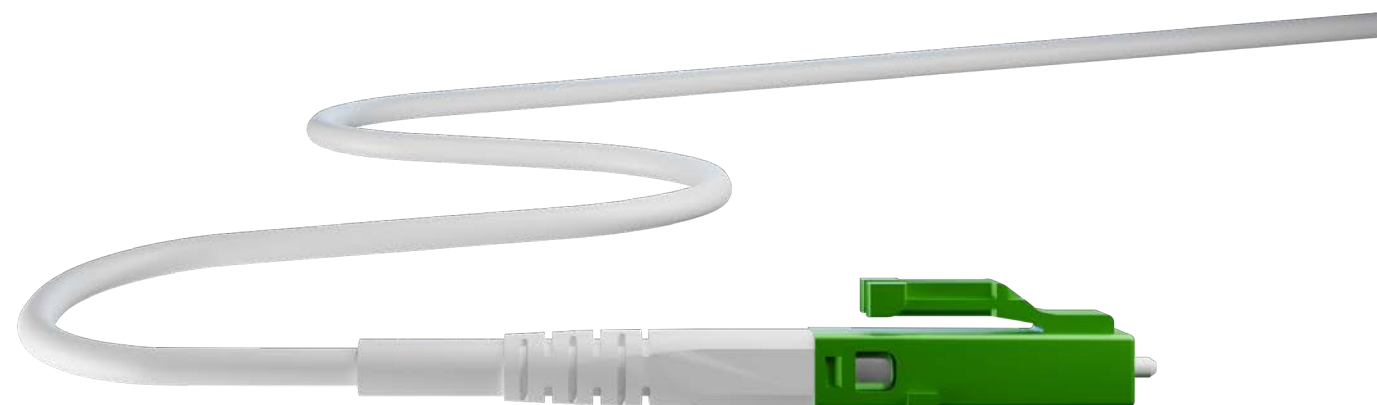
Scalable and Flexible

Whether for residential, commercial, or public use, our solutions can be tailored to fit projects of any size and scope.



Future-Proof Technology

Innovative full solutions designed to meet future demands and stay ahead of technological advancements.



Emtelle's indoor fiber solutions are designed to be versatile and adaptable to a wide range of applications, ensuring optimal performance and reliability across various environments:

Residential Buildings

Commercial Properties

Public Institutions

Industrial Facilities

Healthcare and Hospitality

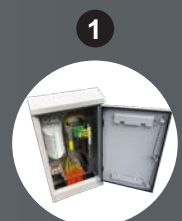
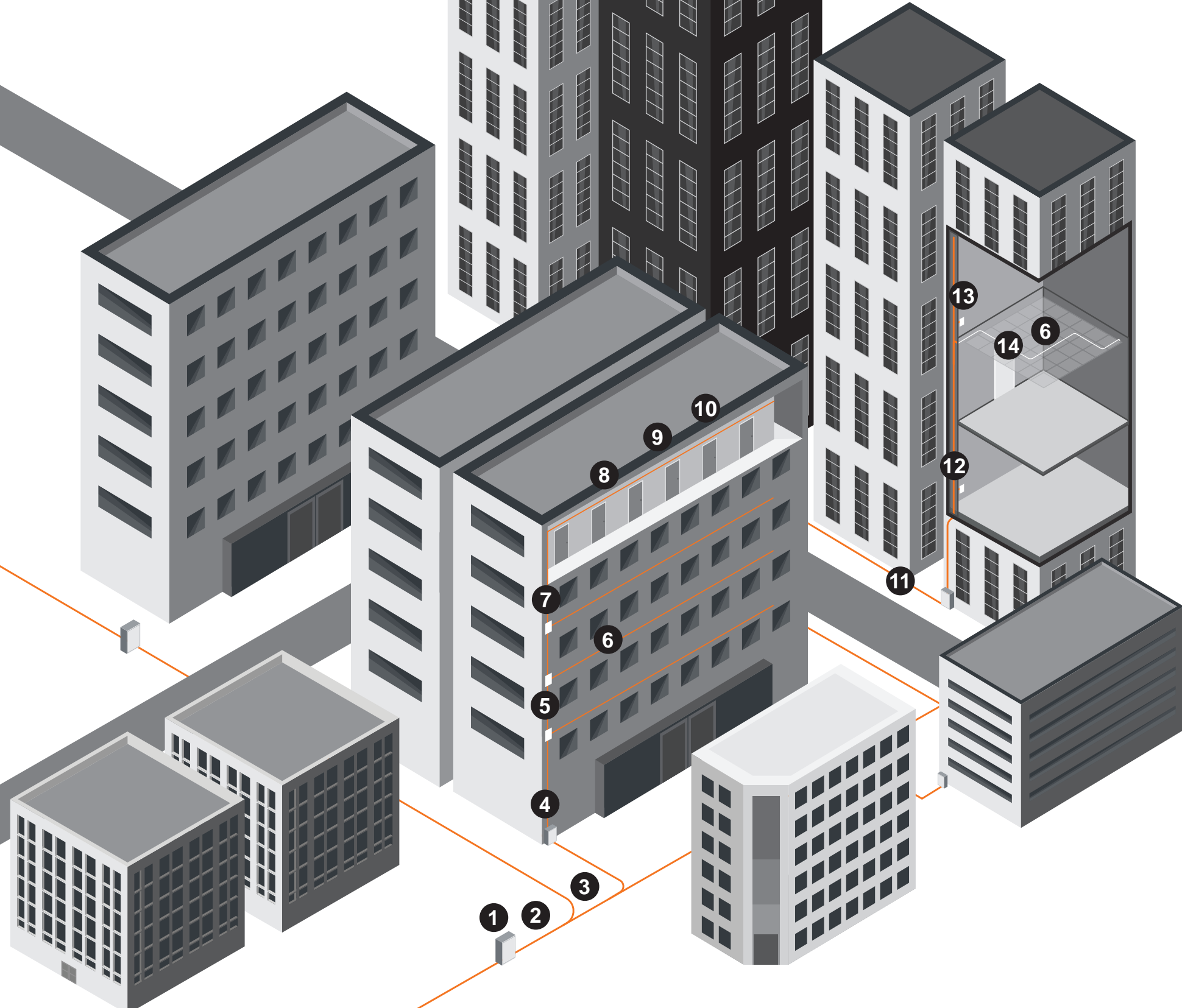
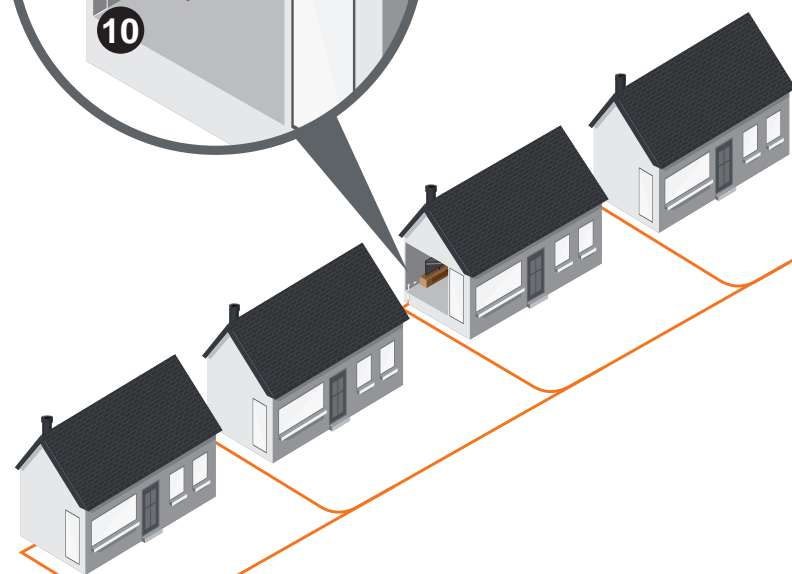
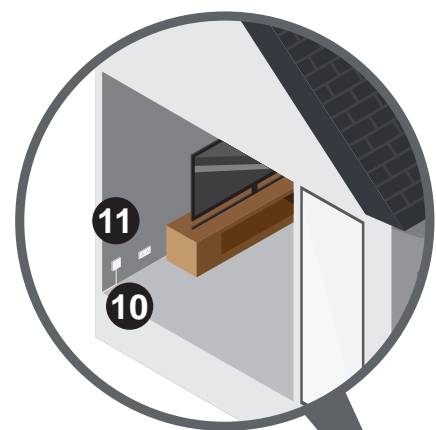
Smart Cities

Broadband

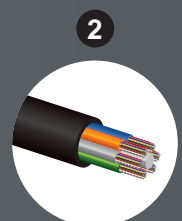
MDUs (Multi-Dwelling Units)

IoT & 5G

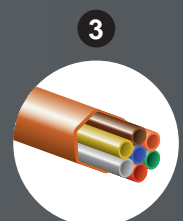




Cabinet



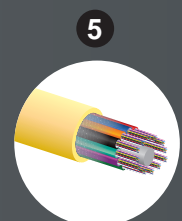
FiberFast
Minicable



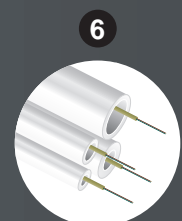
Tube
Bundle



MDU
Distribution
Box



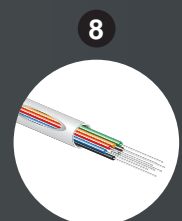
Riser
Cable



LFH /
Plenum
Microducts



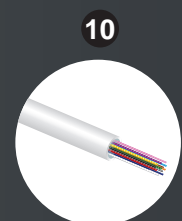
3 / 4 Port
ITFP



RTRYVA™
Indoor



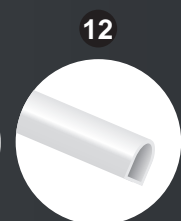
RTRYVA™
BOBM



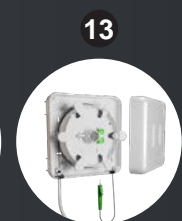
Invisible
Cable



QWK-Range



D-Line
Trunking



ITB



Linian
Clip

PLENUM SAFE MICRODUCTS



Plenum Safe Microducts are an expertly manufactured indoor solution, compliant with the highest safety standards. Our plenum microducts are not only independently tested but also approved to ensure top-notch performance. Constructed from fire-retardant materials, these microducts meet the most exacting regulatory requirements and safety standards for plenum environments: UL & cUL listed and certified as per the international standards (UL 2024 & CAN/ULC S143).

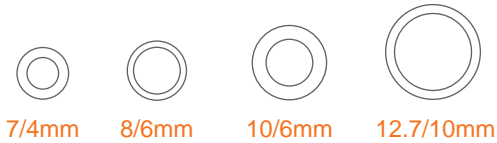
- * **Plenum rating** specifically designed and rated for plenum air spaces.
- * **Ultra-low smoke and flame propagation** for enhanced safety.
- * **Customizable:** available in a range of sizes, lengths and also with pre-installed microcable - PIFU™.



PRODUCT SPECIFICATIONS			
Microduct Sizes	Outer Diameter (Nominal)	Inner Diameter (Nominal)	Weight (Nominal)
7/4mm	7.0mm (0.27")	4.0mm (0.15")	41.7g/m (0.028 lbs/ft)
8/6mm	8.0mm (0.31")	6.0mm (0.23")	35.7g/m (0.024 lbs/ft)
10/6mm	10.0mm (0.39")	6.0mm (0.23")	83.3g/m (0.056 lbs/ft)
12.7/10mm	12.7 mm (0.5")	10.0mm (0.39")	78.9g/m (0.053 lbs/ft)



Microduct Actual Size



INDOOR MICRODUCTS & TUBE BUNDLES

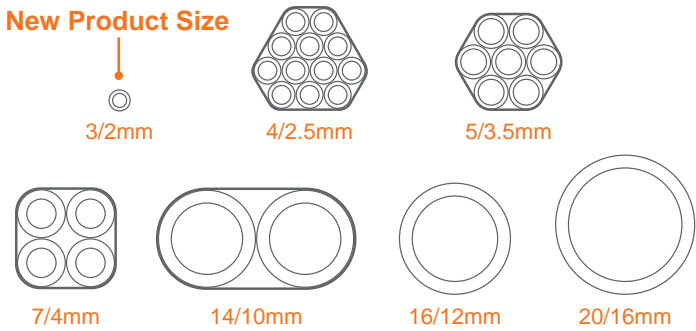


Indoor Microducts & Tube Bundles are manufactured with an LFH (Low Fire Hazard) material suitable for indoor fire regulation use and giving excellent performance in fire scenario. Each assembly includes a low-friction liner, ensuring optimal installation performance and compatibility with fiber blowing. All indoor microducts are manufactured to meet IEC 60332-3 and IEC 60332-1 standards.

- * **Extruded from LFH virgin material** (no re-used content).
- * **Smooth or ribbed + EM-Liner** on the inner surface.
- * **Coefficient friction max 0.1μ** on the inner surface.
- * **Microducts individually printed** with safety ratings and identification numbers.

PRODUCT SPECIFICATIONS	
Dimensions	Number of Microducts
3/2mm	Primary Tube, 1, 7, 12, 24 Way
5/3.5mm	Primary Tube, 1, 2, 4, 7, 12, 19, 24 Way
7/4mm	Primary Tube, 1, 2, 4, 7, 12, 19, 24 Way
14/10mm	Primary Tube, 2, 3, 4, 6, 7 Way
16/12mm	Primary Tube
20/16mm	Primary Tube

Microduct Actual Size



PIFU™ INDOOR

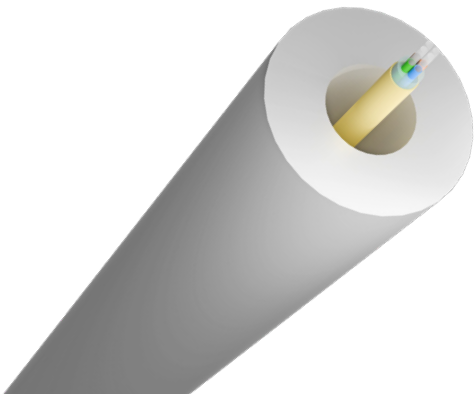
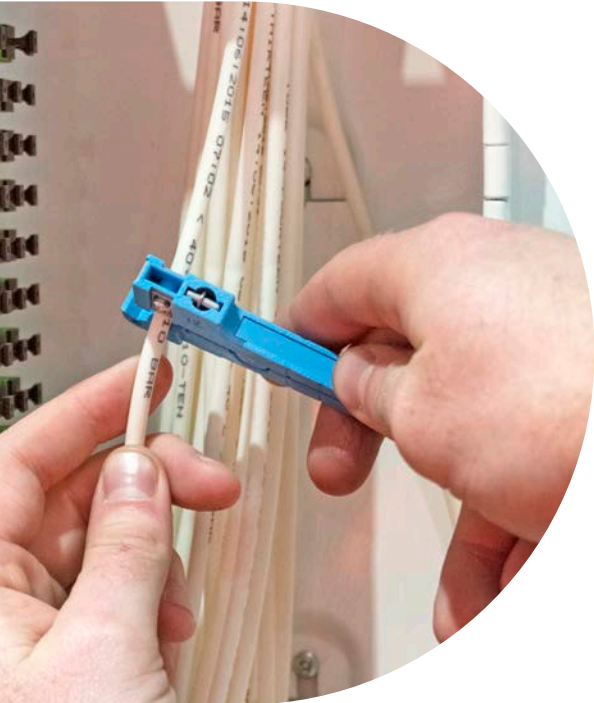


Pre-Installed Microcable in a fire-rated microduct, designed for swift action, LFH PIFU™ is the ideal solution for indoor FTTH drops. Emtelle PIFU™ Indoor is a microduct which comes with a pre-installed fibers from FiberFast products family. PIFU™ Indoor is made from LFH material, making it suitable for buildings and ensuring excellent fire performance.

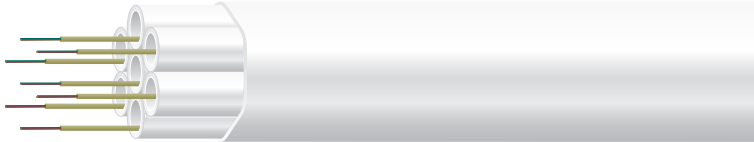
- ⊗ Confirmation of CPR rating for multiple versions.
- ⊗ Available pre-connectorized versions - QWKconnect™.
- ⊗ No need for fiber blowing.
- ⊗ Seamless integration into various setups while meeting safety standards.



PRODUCT SPECIFICATIONS		
Microduct Size	Fiber	CPR Rating
LFH PIFU 5/3.5mm	FiberFast 1f	Dca-s1a,d2,a1
LFH PIFU 5/3.5mm	FiberFast 2/4f	Dca-s1a,d2,a1
LFH PIFU 7/4mm	FiberFast Xtreme 2f	Dca-s1a,d2,a1
LFH PIFU 7/4mm	FiberFast 1f	Cca-s1a,d2,a1
LFH PIFU 7/4mm	FiberFast 2/4f	Cca-s1a,d2,a1



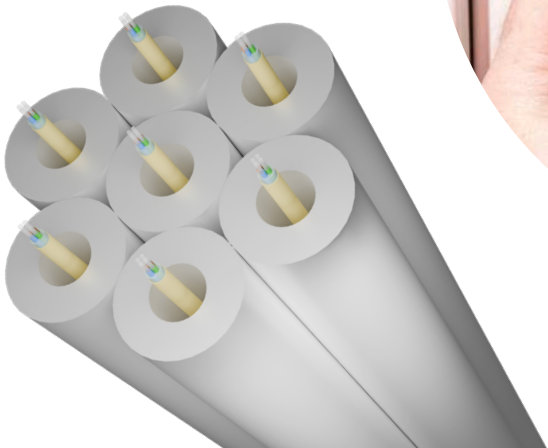
MULTIFU™ INDOOR



MULTIFU™ Indoor is a tube bundle with fibers already pre-installed (2f or 4f). Designed for indoor use, the bundle is lightweight, flexible, and metal-free, making them easy to pull through ducts with low tension. Safety is built in with a Low Fire Hazard (LFH) sheath, ensuring low flammability, minimal smoke, reduced acid/fume release, and a halogen-free composition. The ideal choice for secure, high-performance fiber deployment—efficient, safe, and ready to install!

- ⊗ Available in 2F, 4F, or 6F options, saving time and reducing installation hassle.
- ⊗ Encased in a Low Fire Hazard (LFH) sheath for unmatched safety.
- ⊗ Lightweight, flexible, and completely metal-free.
- ⊗ Perfect for internal fiber- deployments, no need for fiber blowing.

PRODUCT SPECIFICATIONS			
Type 3/2mm	Outer Diameter (Nominal)	Fiber Type	CPR Rating
1-WAY	5.0mm	FiberFast 2/4f	B2ca-s1a,d2,a1
7-WAY	11.0mm	FiberFast 2/4f	Eca-s2,d2,a1
12-WAY	14.2mm	FiberFast 2/4f	Eca-s2,d2,a1
24-WAY	20.0mm	FiberFast 2/4f	Dca-s1b,d2,a1



INDOOR RISER CABLE



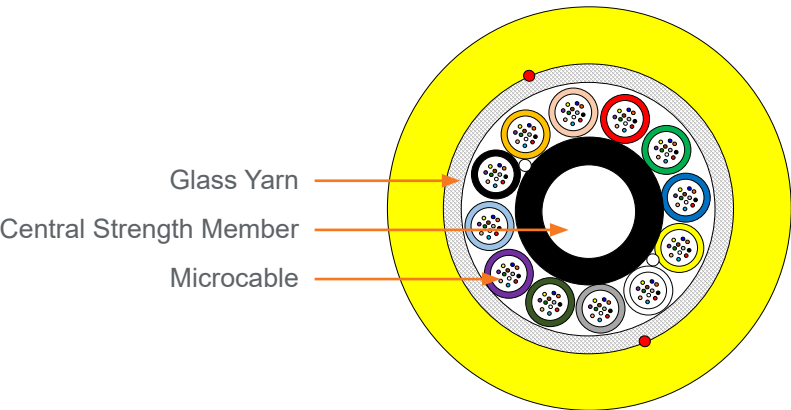
Indoor Riser Cable is an indoor distribution cable designed for building installations with excellent fire performance. Available in 12 to 144 single-mode fibers in up to 12 micro modules, with ripcords for easy sheath stripping. It’s non-metallic central strength member makes it easy to install in risers and floor distribution boxes.

- * Compact construction, easy to install in the floor distribution box.
- * Non-metallic central strength member, easy to install in risers.
- * The cable can contain 12 to 144 single mode fibers.



PRODUCT SPECIFICATIONS				
Fiber Count	Modules x Fibers	Cable Outer Diameter	Max Tensile Load	Operating Temperature
12f	1x12	Max. 7.0mm 6.5mm±5%	425N	-10 °C to +60 °C
24f	2x12			
36f	3x12			
48f	4x12			
96f	8x12	Max. 9.0mm 8.2mm±5%	700N	
144f	12x12	Max. 11.0mm 10.2mm±5%	1109N	

Cca s1b,d1,a2



RTRYVA™ INDOOR



RTRYVA™ Indoor solution is a retractable pre-installed microcable within a fire-rated microduct. It is a single microduct which comes with pre-installed fiber units to maximize fiber density with minimal build intrusion. RTRYVA™ Indoor is manufactured out of LFH material meaning it is suitable for use within buildings and gives excellent performance in a fire scenario.

- * No splicing or blowing, fiber units are pulled out to each apartment.
- * Supplies fiber units directly to individual apartments in MDUs.
- * Installed in a riser from the basement.
- * Installation methods: underground, riser, surface mounted, flush mounted, existing networks, cavity walls, suspended ceilings.



PRODUCT SPECIFICATIONS	
Dimensions	CPR Rating
6/4mm 8 x 1F	B2ca-s1a, d0, a1
8/5mm 12 x 2F	Dca-s2, d2, a1
15/9mm 48 x 2F	Eca-s2, d2, a1

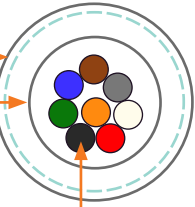
CE BS EN 13501-6

Microduct 6/4mm
Material: LSZH

OD: 6mm

ID: 4mm

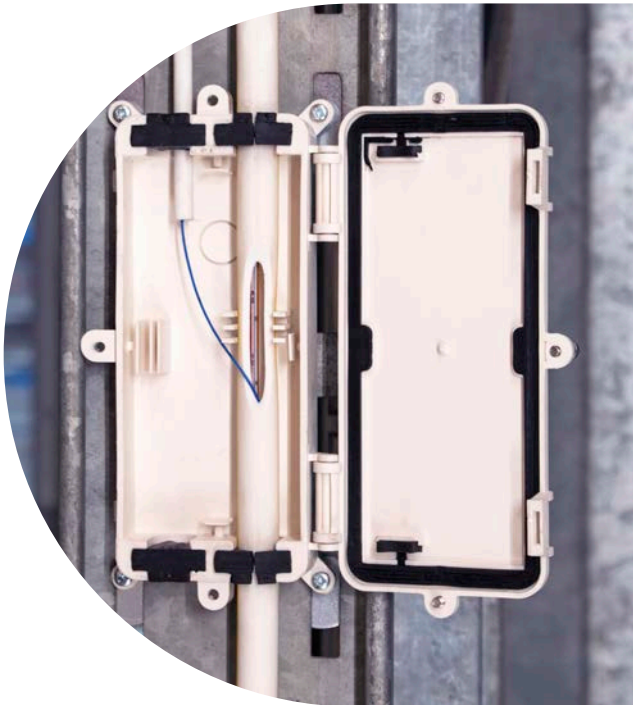
8 fiber elements
(1 fiber per element)



LFZH 900µ
Optical Fiber



Scan the QR-code and watch the RTRYVA™ video on YouTube.



INDOOR INVISIBLE CABLE



Indoor Invisible Cable, with a white LSZH sheath, offers a fast and easy solution for fiber deployment in buildings. Its 2 - 3mm white cord, supporting up to 24 fibers, is virtually invisible, making it highly accepted by building owners and tenants. The cable features color-coded fibers and is available in pre-connectorized or bulk reel-in-box options, providing a faster and easier installation process.

- ⊗ **Virtually invisible**, increasing acceptance by building owners and tenants.
- ⊗ **2.0 or 3.0mm white cord**, up to 24 fibers.
- ⊗ **Pre-connected** or bulk reel-in-box.
- ⊗ **IEC60793-1, IEC60793-2, IEC60794-2, IEC60332-1-2, IEC60754-1, IEC60754-2, IEC61034.**



PRODUCT SPECIFICATIONS		
Fiber Count	Outer Diameter (Nominal)	Operating Temperature
1f - 250µm	900µm	-10 °C to +60 °C
2f - 250µm	2.0mm, 3.0mm	
4f - 250µm		
6f - 250µm		
8f - 250µm		
12f - 250µm		
16f - 250µm	3mm	
20f - 250µm		
24f - 250µm		

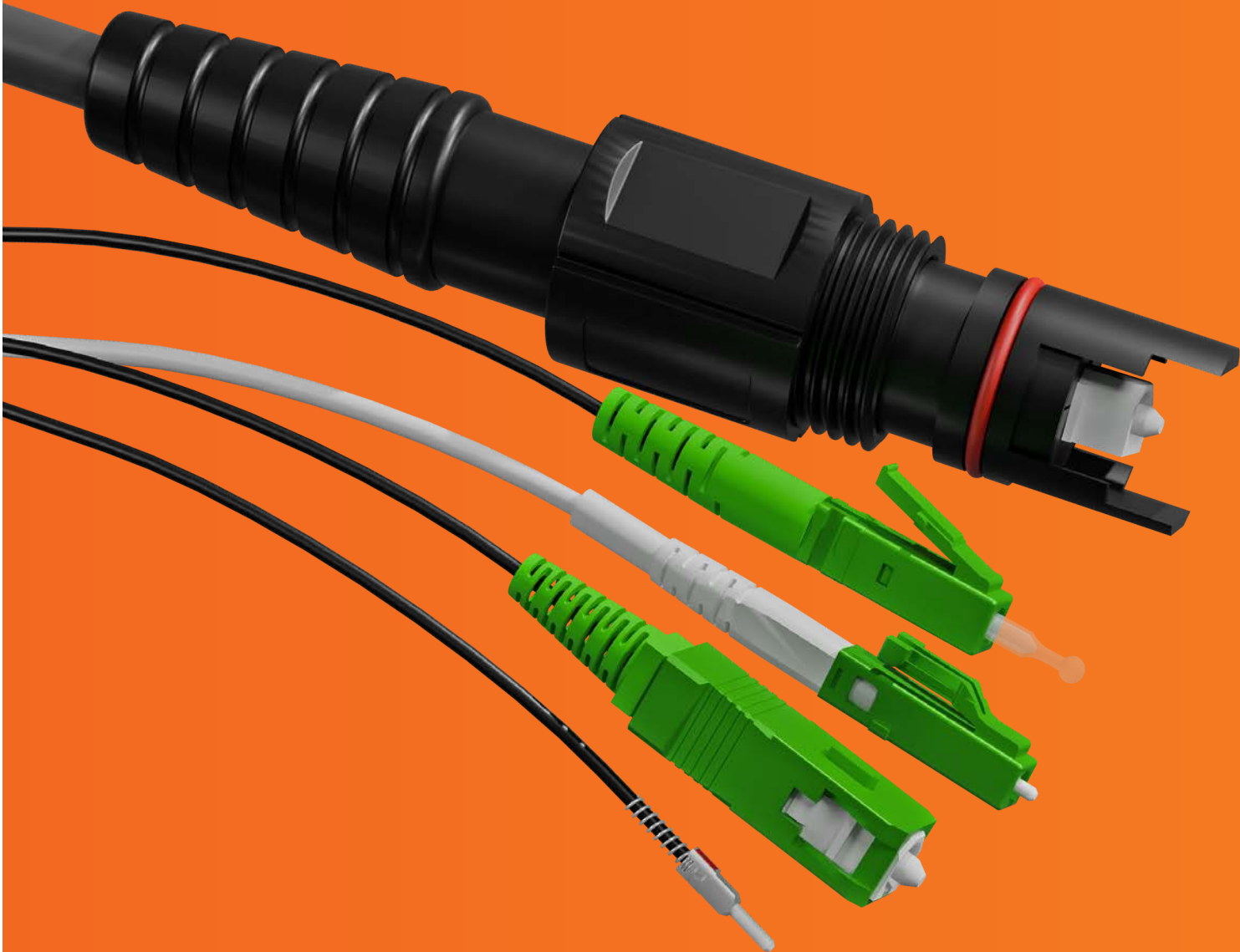


PRE-CONNECTED

Award Winning Solutions

for seamless installation to the home.

Emtelle's QWK-Range revolutionizes connectivity with pre-connectorized solutions designed for effortless installation. Engineered for seamless integration and rapid deployment, this plug-and-play system enhances efficiency and reliability, making network expansion faster and more cost-effective. Trusted worldwide, the QWK-Range ensures a smooth, hassle-free setup, minimizing downtime and maximizing performance.



EMTELLE HOMECONNECT™



Emtelle HomeConnect™ is a pre-connected microcable within an indoor microduct, with a slideable/adjustable outdoor microduct sheath on top. The HomeConnect offers a full solution FTTH kit, including a Customer Connection Point with a pre-connected CPR rated drop cable. It can be delivered in fully customized versions e.g. single or multifiber, as a loose coil, a reel or a reel & box; one or both sides pre-connected, with or without pulling or pushing systems.

- * **High CPR rating.**
- * **Wide range of lengths, up to 100m.**
- * **Factory terminated connectors with quality guarantee.**
- * **Installation methods:** pushable, pullable, blowable, wall mounted, flush mounted.



PRODUCT SPECIFICATIONS		
Dimensions	Connector Type	CPR Rating
5/3.5mm PE to 3mm LFH	SC/APC to Bare	Cca-s1a,d0,a1
5/3.5mm PE to 3mm LFH	LC/APC to Bare	Cca-s1a,d0,a1

Emtelle HomeConnect™ it is not only the microcables and indoor microducts with connectors, under this family we can offer all types of drop cables preconnectorized.

Application
Indoor and Outdoor Options

Drop Cables
Aerial drop 3mm, 4mm, 3mm, 2.5mm, 2mm, discreet 900µm

Fiber Types
G657A1, A2 or B3
From 1 up to 6 fibers

CPR Rating
Cca or B2ca on select cable types

Connectors
LC, SC, LCv, SCv
LC-QR, LC-TT

Multifiber
LC, SC, Push or Pull system, Straight or Cascade

Packaging
Possibility of adapting packaging to customer

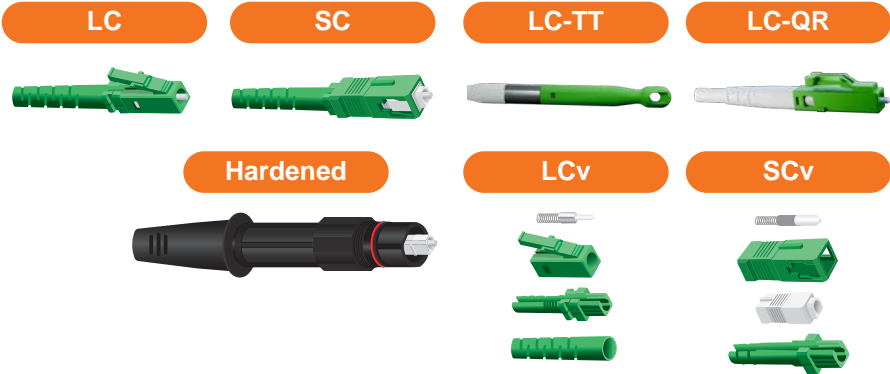


LFH Microduct
CCP



Scan the QR-code and watch our Pre-Connectorized video on YouTube.

Connectors Available for Emtelle HomeConnect™





QWKlink™ is a pre-connected microcable, that can be pre-connected on one or both ends which easily allows for fiber connectors (SC or LC APC ferrule) to be built up after being installed. This eliminates the need for splicing fiber in the house. QWKlink™ is supplied with a ferrule that can be blown into a microduct with a minimum diameter of 3.5mm. Optimized to be installed by being blown into LFH microducts.

- * **Pre-connected microcable.**
- * **No need for splicing,** reducing installation costs.
- * **Allows flexible installation** within a microduct.
- * **Ferrule can be built up quickly** after installation, within seconds.

PRODUCT SPECIFICATIONS		
Fiber Type	Fiber Count	Connector Type
G.657.A1	2f	LC/APC, SC/APC LCv/APC, SCv/APC
	4f	
	6f	
G.657.A2	2f	
	4f	
	6f	



Connectors Available for QWKlink™ and QWKconnect™

LC

SC

LC-TT

LC-QR

Hardened

LCv

SCv



QWKconnect™ is a pre-connected microcable, that is pre-installed into a fire-rated microduct during the manufacturing process and gives all the advantages of blown fiber, without the need for blowing. As the pre-installed microcable is only 1.1mm in diameter, any excess microcable can easily be coiled at the home or in fiber management housing. Can be supplied in various lengths from 25m up to 500m, perfectly suited for indoor projects.

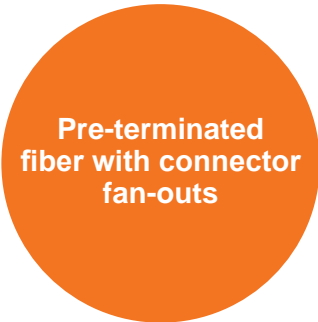
- * **Pre-connected and pre-installed microcable.**
- * **Flexible installation** within the building.
- * **Ideal to feed apartments** from the outside of the building to the inside.
- * **No need for splicing or blowing,** microcables can be retracted and plugged into an apartment CCP, reducing installation costs.



PRODUCT SPECIFICATIONS	
Dimensions	CPR Rating
7/4mm 2F or 4F	B2ca-s1a, d0, a1
5/3.5mm 2F or 4F	Dca-s2, d2, a1

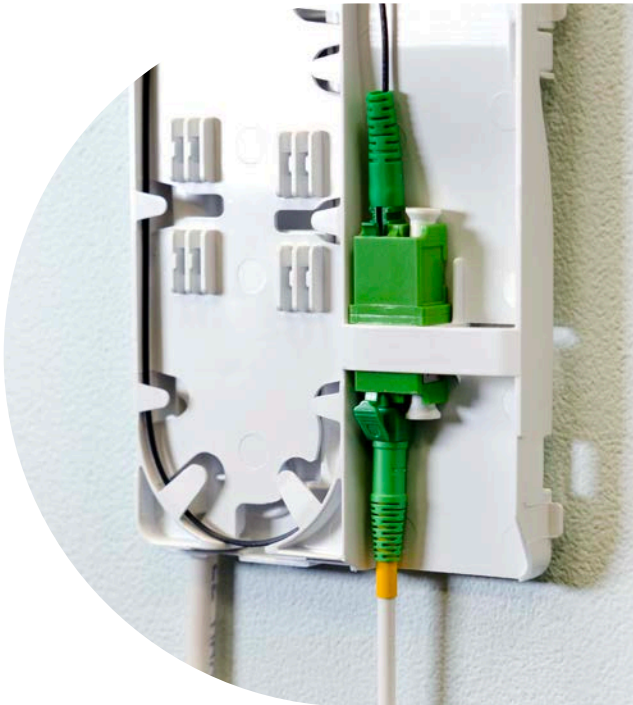


Scan the QR-code and watch the LCv Assembly video on YouTube.



End 1 - Bare

End 2 - Connectors



LC-TT™



LC-TT™ [Twist-On Twist-Off] is a high-performance simplex LC connector with a unique removable latch. The front body of the LC-TT™ can be twisted on and off the main connector body allowing the connector to be fed through a 5mm hole. The LC-TT™ can be fitted with LC Quick Release (QR) front latch or the standard clip front latch. With the QR latch fitted the connector will disengage at loads of up to 25N. Available as PC or APC for a variety of fiber and cable sizes, the LC-TT™ is ideal for use where it is important for the assembly to dis-connect before the jumper or equipment is permanently damaged.

- * Through the wall installations.
- * Industry standard LC interface compliant and compatible with all LC adaptors.
- * Designed for various drop cable diameters, up to 3mm.
- * Safe co-operation with home devices - CPE/s, active devices with LC interface.



PRODUCT SPECIFICATIONS		
Plug Connector	Diameter	Total Length (including boot)
IEC 61754-20 LC-TT [Twist on Twist off]	3mm	35mm

LC-QR™

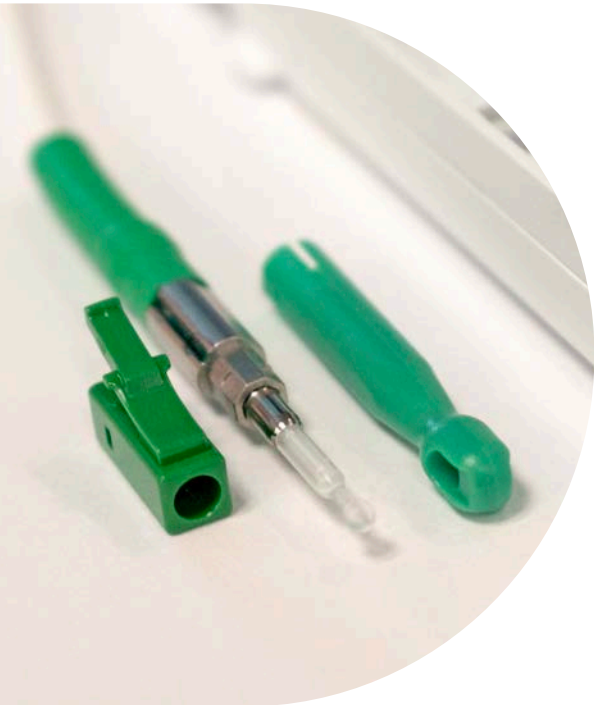


The LC-QR™ [Quick Release] is a simplex LC connector with a unique patented front body latch. The LC-QR™ disconnects from a standard LC adapter under cable loading or accidental snagging to protect both the cable assembly and the equipment adapter. The LC-QR™ is designed to dis-engage at loads up to 25N and when snagged will disconnect at loads as low as ~5N. Available as PC or APC for a variety of fiber and cable sizes, the LC-QR™ is ideal for use where it is important for the assembly to dis-connect before the jumper or equipment is permanently damaged.

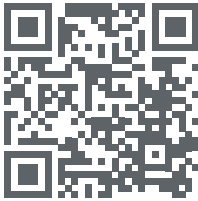
- * Industry standard LC interface compliant.
- * De-latches before cable or equipment is damaged.
- * Possibility of use with cables dedicated for microducts and outdoor solutions.
- * Safe co-operation with home devices CPE/s, active devices with LC interface.



PRODUCT SPECIFICATIONS		
Connector Standard	Diameter	Total Length (including boot)
IEC 61754-20 LC-QR	3mm	38mm



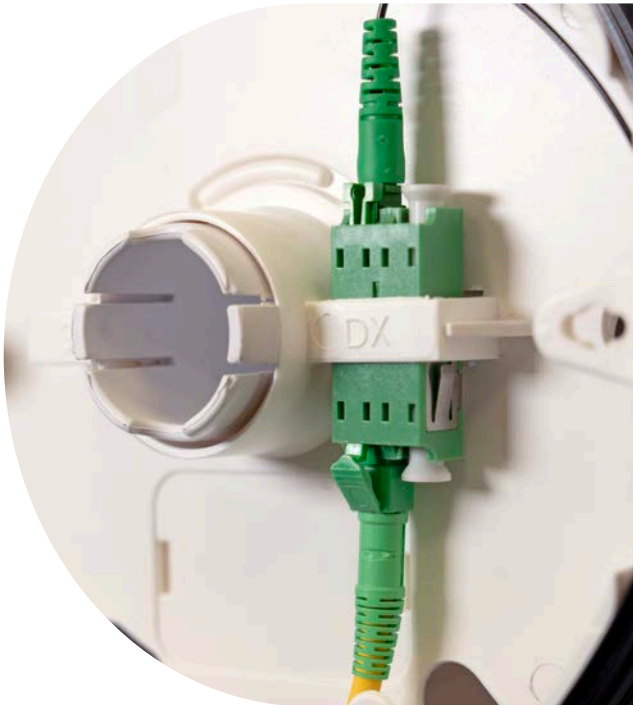
Twist cap off



Scan the QR-code and watch our LC-QR video on YouTube.



Pull to release



FIBER MANAGEMENT

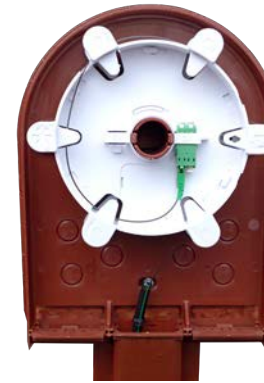
Safe. Reliable. Efficient.

Secure Solutions for Seamless Connectivity.

At Emtelle, we offer a comprehensive range of fiber management closures and accessories designed to protect fiber and cables. Our solutions ensure seamless connectivity while fully complying with fire safety regulations. Built for durability and performance, our products help streamline deployments and safeguard infrastructure, ensuring long-term reliability and efficient operations across all projects.



ETB



External Termination Box is the perfect transition point for outdoor to indoor. It is a versatile storage box deployed in the FTTH network. The box can be used to store the slack from pre-terminated drop cables or fiber modules.

ITB



Internal Termination Box is an indoor storage box deployed in the FTTH network. The box can be used to store the slack from pre-terminated drop cables or fiber modules.

CCP



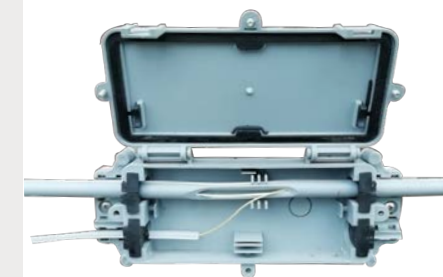
Customer Connection Point provides a fiber termination point inside a residential property. The CCP comes complete with a pre-installed pigtail, connector and adapter.

FIBER OPTIC WALL OUTLET



Fiber Optic Wall Outlet enables a fiber optic cable termination point to be present within the end user's home. The wall outlet accommodates two fiber adaptors, SC simplex or LC Duplex.

EMU BOX



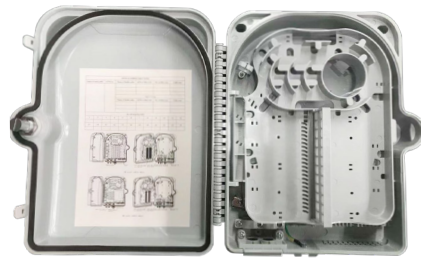
EMU Box has been designed by Emtelle to suit many requirements for FTTH and FTTP projects.

72FO MDU BOX



72FO MDU Box Optical box for multi-fiber building systems, distributing connectivity from the MDU fiber distribution box.

FIBER DISTRIBUTION TERMINAL



FDT is used as a termination point for the feeder cable to connect with the riser cable in an MDU scenario. The fiber splicing, splitting, distribution can be done in this box.

FLOOR DISTRIBUTION BOX



FDB can be used in shelters with specific protective features, such as machine rooms, indoor spaces, and corridors, to enable optical distribution and relay functions from the optical connecting cabinet or machine room to the user end.

FIBER DISPENSER



Fiber Dispenser is used as a terminal point in telecommunication networks. The optical fiber can be unspooled from the dispenser as well as providing protection and management for the FTTx network building.

ELF



Eltelle Fiber Lock System to eliminate lateral movement of terminated microcables due to vibration or thermal expansion / contraction of the duct system. Design specifically for Emtelle FiberFlow™ products.

RTRYVA 6MM BOBM



RTRYVA™ 6mm Break Out Bend Manager is a discrete protective wall mountable housing/closure. The closure can support a 60mm window cut with built-in fiber bend management.

D-LINE TRUNKING



D-Line Trunking is used for the indoor routing of fiber cables and as a guide for branched cables to the individual subscriber connection points. Can be optimally combined as a covering solution with RTRYVA™ Indoor.

INTERNAL TDC



Internal Tube Distribution Closure is a protective closure to manage and distribute microducts. The closure allows for easy routing in almost any direction through its 7 ports. Flame retardant material allows for use inside.

3 / 4 PORT ITFP



Indoor Tube Flexibility Point closure for easy routing of internal microducts inside a building riser or cable tray while offering bend protection and connector protection.

Y-BRANCH



Y-branch closure for deviating microtube in separate directions inside a building riser or cable tray while offering bend protection and connector protection.

CABLE CLIP



Cable clip is the world's first single component fire-rated fixing. There is no need for screws, plugs, or cleats. The clip is simple, strong and easy to install.

LFH CONNECTOR



Push-fit Connectors are suitable for use with indoor microducts of the same size. They ensure a seamless and airtight connection when blowing fiber cable.

LFH END CAP



Push-fit End Caps prevent debris or contaminants from entering the duct system when installing cable.



CONTACT US



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