



PLENUM SAFE PRE-FIBERED MICRODUCT SOLUTIONS

Designed for **Indoor** Fiber Networks

tested and certified for optimal indoor performance



Optical Fiber Cable
E541415



Field Assembled Optical
Fiber Cable
E541416

SAFETY FIRST

Navigating the complexities of safety regulations in indoor spaces with plenum air areas can be an overwhelming task. Emtelle understands the complex concerns faced by customers, ranging from **ensuring fire safety** while maintaining airflow, **protecting fiber optic installations**, and complying with current and **future industry standards**.

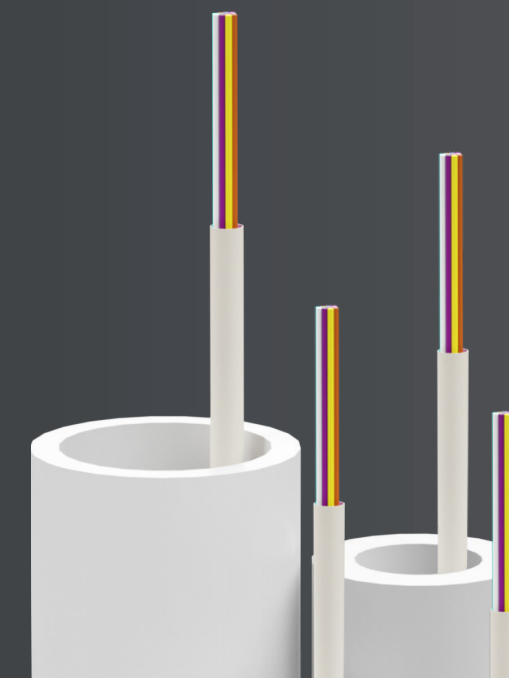
Balancing safety requirements with budget limitations is an added difficulty. Additionally, minimizing downtime due to disruptions in fiber optic networks is crucial. **A simplified solution** is needed to address these challenges effectively.

INTRODUCING

Another innovation by Emtelle

Safety You Can Trust

Emtelle's plenum safe pre-fibered microduct solutions are a meticulously crafted 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 carry the prestigious **UL & cUL** listing and certifications.



FEATURES

Plenum Rating

Specifically designed and rated for plenum air spaces.

Exceptional Fire Resistance

Engineered to meet rigorous fire codes and regulations.

UL and cUL Certified

Compliant with American and Canadian safety standards, ensuring adherence to industry-recognized safety protocols.

Tailored for FTTx

Designed for Fiber-to-the-X (FTTx) setups and optimized for blowing installation.

BENEFITS

Enhanced Safety

Provides fundamental safety in plenum areas, critical for environments where stringent safety regulations are in place.

Mitigated Fire Risks

Minimizes the risk of fire hazards by offering remarkable resistance to smoke and flame propagation, safeguarding both the infrastructure and occupants.

Reliable Protection

Offers supreme protection for optical fiber installations, ensuring the integrity and longevity of network infrastructure.

APPLICATIONS

Plenum-rated raceways are commonly used in commercial buildings, such as office spaces, educational institutions, and healthcare facilities. They are required by fire codes and regulations in plenum areas due to their low smoke and flame propagation characteristics.

Emtelle's plenum microducts are suitable for a **wide range** of applications:



Datacenters



Airports



Smart Cities / IoT (Internet of Things)



MDU (Multiple Dwelling Units)



Schools / Campus



Hospitals / Healthcare

Regulatory Compliance

Meets the most exacting regulatory requirements and safety standards from UL 1651, Edition 4, Issue Date 2015-05-15, Revision Date 2023-04-13 & CSA C22.2 NO. 232, 4th Ed., Issue Date: 2022-07 for Plenum environments.



MICRODUCT & FIBER SPECIFICATIONS



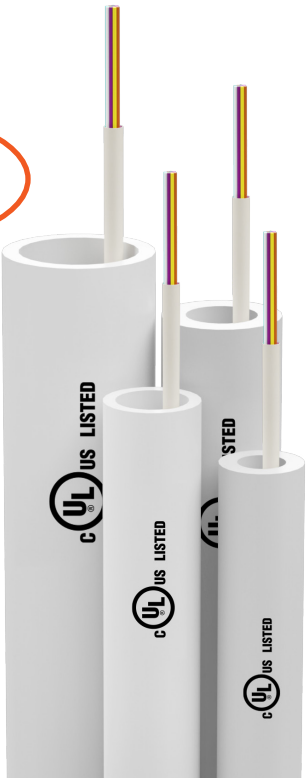
MICRODUCT SPECIFICATIONS			
Microduct Sizes	Outer Diameter (Nominal)	Inner Diameter (Nominal)	Weight (Nominal)
7/4 mm	7.0 mm (0.27")	4.0 mm (0.15")	0.028 lbs/ft
8/6 mm	8.0 mm (0.31")	6.0 mm (0.23")	0.024 lbs/ft
10/6 mm	10.0 mm (0.39")	6.0 mm (0.23")	0.056 lbs/ft
12.7/10 mm	12.7 mm (0.5")	10.0 mm (0.39")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

FIBER SPECIFICATIONS			
Fiber	Outer Diameter (Nominal)	Mass	Min Bend Radius
2fu	1.1 mm (0.04")	1.1 g/m	50 mm
4fu	1.1 mm (0.04")	1.1 g/m	50 mm
6fu	1.3 mm (0.05")	1.3 g/m	65 mm
8fu	1.5 mm (0.06")	1.5 g/m	80 mm
12fu	1.6 mm (0.06")	1.6 g/m	80 mm

Categories

QAYK - Optical Fiber Cable for US
QAYK 7- Optical Fiber Cable for Canada
QAZD - Optical Fiber Cable, Field Assembled for US
QAZD 7 - Optical Fiber Cable, Field Assembled for Canada

Plenum
Microduct

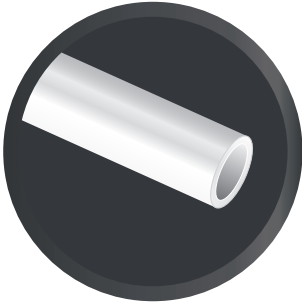


INDOOR SOLUTION OVERVIEW

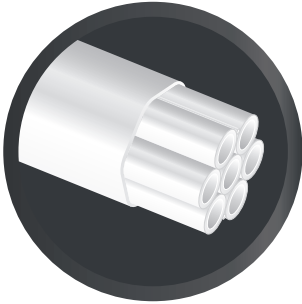
Emtelle Related Indoor Products

We are proud to be a full solution provider that goes the extra mile from concept to completion in terms of supply and customer support.

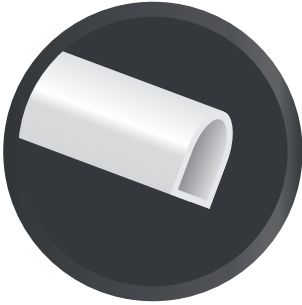
Please note that the related products below are not tested or certified for plenum environments.



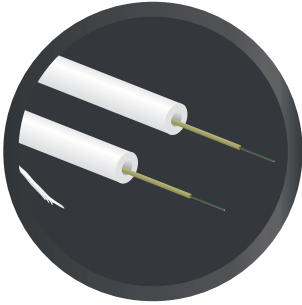
LFH Microduct
Low Fire Hazard Microduct contains material suitable for indoor fire regulation use, giving excellent performance in fire scenarios. The ducts have a solid, low friction liner for best installation performance



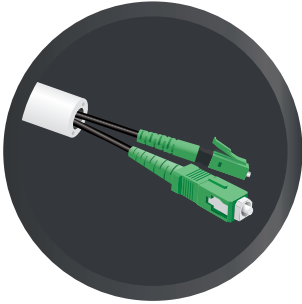
LFH Tube Bundle
Low friction performance and suitable for fiber blowing. Each assembly is surrounded with a sheath of LFH material suitable for indoor fire regulation use and giving excellent performance in fire scenario.



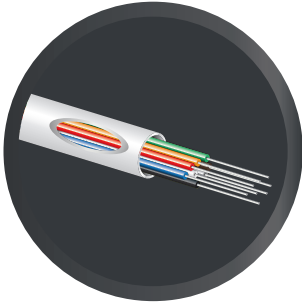
LFH D-Line Trunking
Cable guide rail for proper routing of branched cables to the individual subscriber connection points.



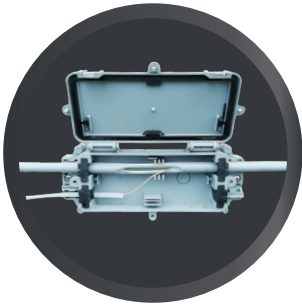
PIFU (Indoor)
Microduct manufactured from LFH material and comes with a pre-installed FiberFast Fiber Unit. Suitable for use within buildings and gives excellent performance in a fire scenario.



QWKconnect (Indoor)
A pre-connectorized fiber bundle pre-installed within a fire rated microduct at the manufacturing process. Eliminating blowing costs and reducing splicing costs for the operator.



RTRYVA Indoor
A single LFH microduct which comes with several pre-installed Fiber Units to maximize fiber density with minimal build intrusion. For use within buildings and gives excellent performance in a fire scenario.



EMU Box
A compact multipurpose enclosure that can accommodate multiple patch connections and splices. Commonly used to break out and distribute fiber from Emtelle's RTRYVA solution.



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



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