

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**.

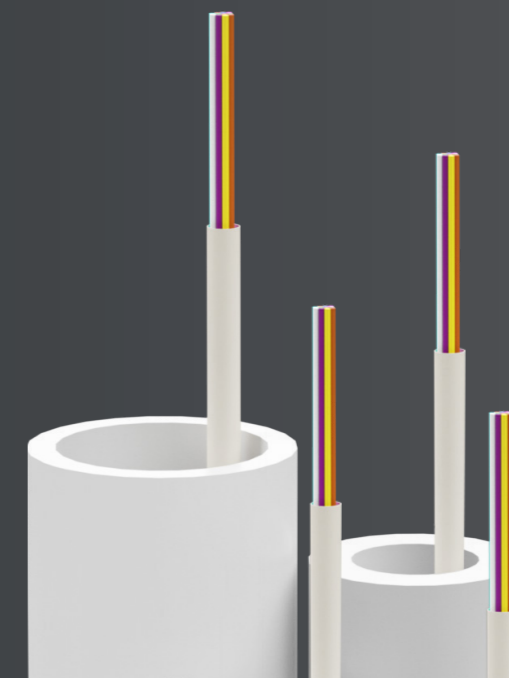
Balancing safety requirements with budget limitations is an added difficulty. Additionally, minimizing downtime due to disruptions in fiber optic networks is crucial. **A simplified solution** is needed to address these challenges effectively.

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 - also suitable for riser rated 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.

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.

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

MICRODUCT & FIBER SPECIFICATIONS

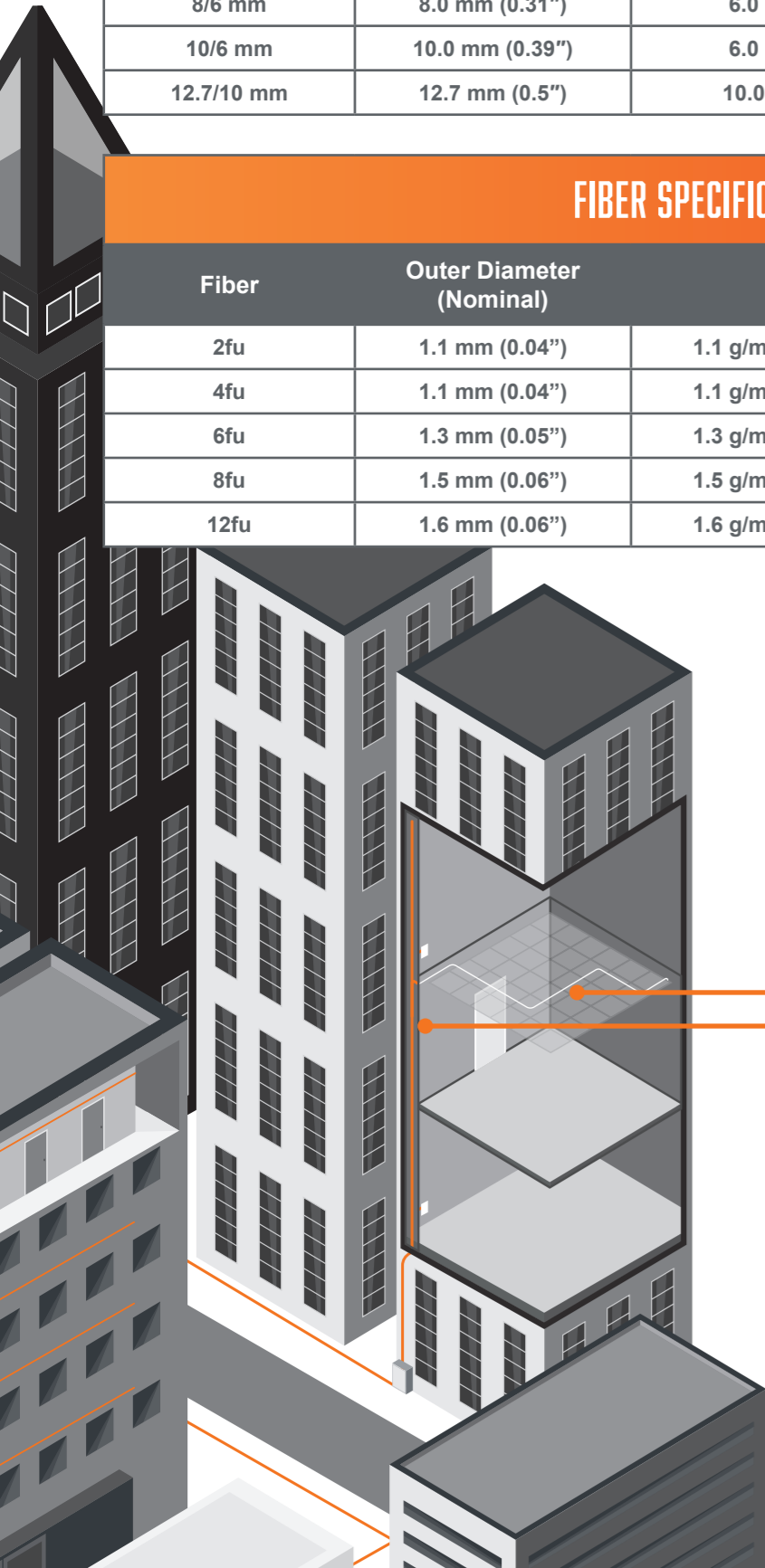


MICRODUCT SPECIFICATIONS			
Microduct Sizes	Outer Diameter (Nominal)	Inner Diameter (Nominal)	Weight (Nominal)
7/4 mm	7.0 mm (0.27")	4.0 mm (0.15")	41.7 g/m (0.028 lbs/ft)
8/6 mm	8.0 mm (0.31")	6.0 mm (0.23")	35.7 g/m (0.024 lbs/ft)
10/6 mm	10.0 mm (0.39")	6.0 mm (0.23")	83.3 g/m (0.056 lbs/ft)
12.7/10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

FIBER SPECIFICATIONS			
Fiber	Outer Diameter (Nominal)	Mass	Min Bend Radius
2fu	1.1 mm (0.04")	1.1 g/m (0.0007 lbs/ft)	50mm (1.968")
4fu	1.1 mm (0.04")	1.1 g/m (0.0007 lbs/ft)	50mm (1.968")
6fu	1.3 mm (0.05")	1.3 g/m (0.0010 lbs/ft)	65mm (2.559")
8fu	1.5 mm (0.06")	1.5 g/m (0.0014 lbs/ft)	80mm (3.149")
12fu	1.6 mm (0.06")	1.6 g/m (0.0016 lbs/ft)	80mm (3.149")

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



GLOBAL LEADER IN MICRODUCT AND MICROCABLING DESIGN AND MANUFACTURING.

Emtelle USA, 101 Mills Gap Rd, Unit A, Fletcher, NC 28732, USA

YOUR FULL SOLUTION PROVIDER

Our solutions are made to perfectly complement your network installations, working together seamlessly for optimal performance.

Conduit

Microduct

Tube Bundles

Fiber Optic Cables

Pre-Fibered

Pre-Connectorized

Reducers

Stripping Tools

Blowing Machines

Connectors

Closures

Contact us to learn more about our reliable, innovative and eco-friendly solutions!

Details are on the back page.



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