



FiberFlow™

Plenum Safe Microduct Systems

(UL and cUL Certified)



PRODUCT DESCRIPTION

Emtelle Plenum Microduct is designed, manufactured and supplied within an Integrated Management System, incorporating internationally recognised Standards including ISO 9001:2015, ISO 14001:2015 and ISO 45001:2018.

APPLICATION

Plenum Safe Microducts are primarily used in data networking installations, particularly in large-scale buildings where high-speed internet and networking infrastructure is essential. The term "plenum" refers to the space in a building used for air circulation. Plenum areas are required by fire codes to be constructed of fire-retardant materials.

- ⊗ **Fiber Optic Cable Installation:** Plenum microducts provide a protective pathway for fiber optic cables, ensuring they are safely routed through the building without being exposed to environmental hazards or physical damage.
- ⊗ **High-Density Environments:** Suitable for environments where there is a high density of networking infrastructure, such as office buildings, data centers, universities, and hospitals. These microducts are highly flexible, allowing for easy installation around corners, through walls, and across ceilings.
- ⊗ **Fire Safety Compliance:** Plenum spaces are subject to strict fire safety regulations, plenum microducts are designed to meet these requirements and minimize the risk of fire spread.
- ⊗ **Enhanced Network Performance:** By providing a dedicated pathway for fiber optic cables, plenum microducts help maintain the integrity of the network signal, reducing the risk of signal interference or degradation.
- ⊗ **Reduced Installation Costs:** Reduce the overall cost of installing fiber optic infrastructure by minimizing the need for expensive and labor-intensive construction work associated with traditional conduit systems.
- ⊗ **Compliance and Standards:** UL & cUL listed and certified as per the international standards (UL 2024 & CAN/ULC S143)

KEY FEATURES

- ⊗ Plenum Rating - Specifically designed and rated for plenum air spaces.
- ⊗ Extremely low smoke and flame propagation characteristics.
- ⊗ Smooth internal bore for blowing installation.
- ⊗ Customizable: Available in a range of sizes and lengths.

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OVERVIEW

	7/4	8/6	10/6	12.7/10
Outside Diameter:	7.0mm (0.27")	8.0mm (0.31")	10.00mm (0.39")	12.7mm (0.5")
Inside Diameter (Nominal):	4.0mm (0.15")	6.0mm (0.23")	6.0mm (0.23")	10.00mm (0.39")
Wall thickness:	1.5mm (0.05")	1.0 mm (0.03")	2.0 mm (0.07")	1.35 mm (0.05")
Length per duct:	As required	As required	As required	As required
Ribbed/Smooth Bore:	Smooth	Smooth	Smooth	Smooth

PRINT MARKING

The standard printing pitch is every Foot/meter.

* Printing on the ducts can be customized as per customer requirements.

PACKING DETAILS

Packing Quantity:	Available upon request
Total Length:	Various
Packed Dimensions:	Available upon request
Packing Type:	Supplied on wooden drums



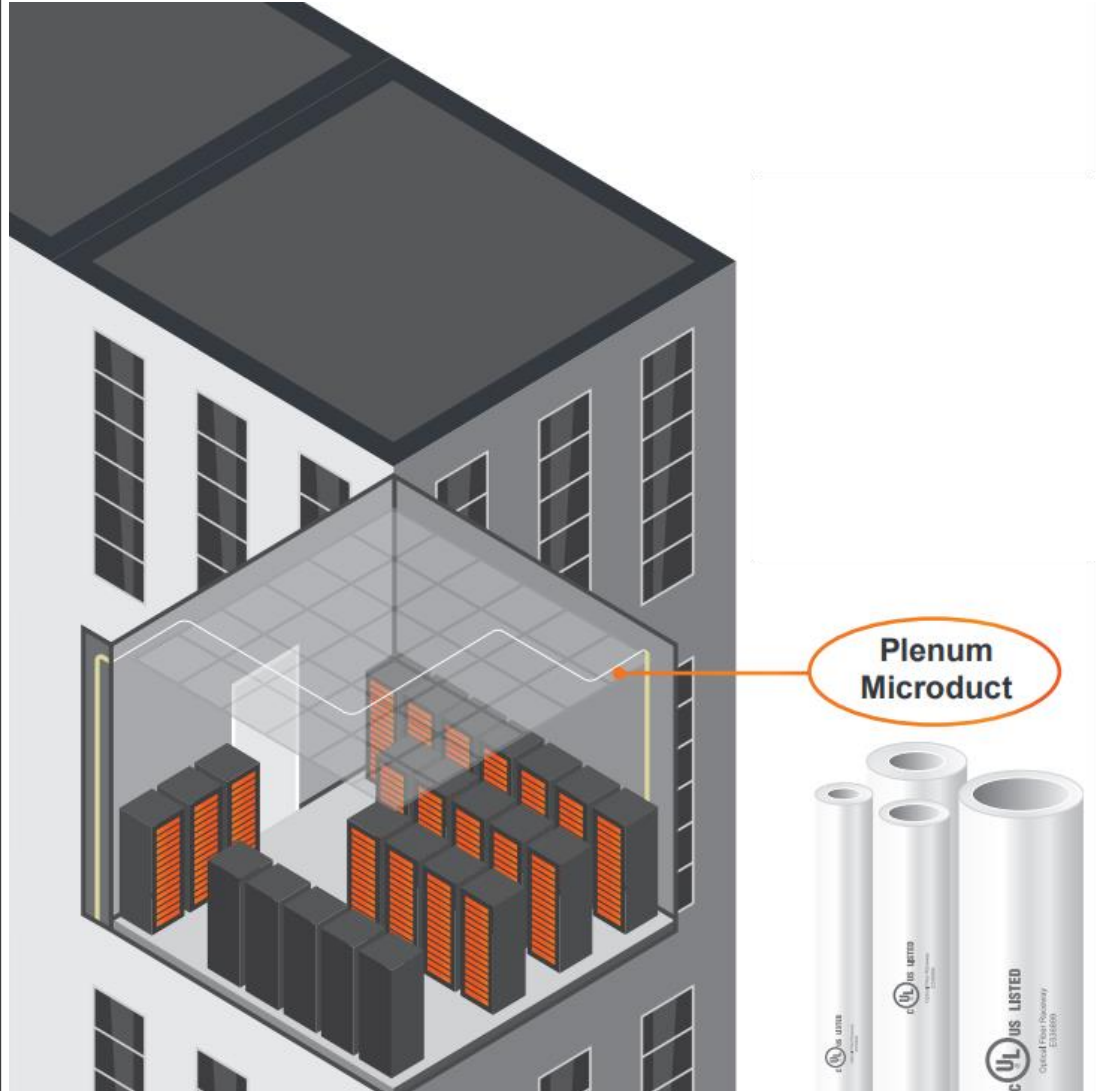
MATERIAL

Raw Material:	Thermoplastic Resin
Colour:	White

PRODUCT PERFORMANCE

	7/4	8/6	10/6	12.7/10
Bending Radius:	140mm (5.51")	160mm (6.29")	200mm (7.87")	254mm (10")
Tensile Strength (N/lbs):	450 / 101	350 / 78	950 / 213	800 / 179
Crush Resistance (N/lbs):	3500 / 786	1200 / 269	4500 / 1011	1100 / 247
Weight (Nominal) (lbs/ft):	0.028	0.024	0.056	0.053

INSTALLATION



Designed for installation in Plenum Air Spaces.

Plenum spaces, such as the area above drop ceilings or below raised floors, are part of a building's ventilation system. In case of a fire, these spaces can serve as pathways for smoke and fire to spread throughout the building. Plenum-rated ducting is designed and tested to meet strict fire safety standards, ensuring it won't contribute to the spread of fire and smoke.

PRODUCT DRAWING

Available upon request



RELATED PRODUCTS

- ⊗ LFH Emtelle Utility Box
Specification UK_DS_72792



- ⊗ Duct Cutter 3-16mm
072799016



- ⊗ Duct Rounding Tool
Specification UK_DS_7949



END OF SPECIFICATION

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