Knet

ENHANCE YOUR FIBER NETWORK WITH MICRODUCT SOLUTIONS! →

knet

3. LAST MILE

Delivering fiber to homes and businesses—the Last Mile—requires an efficient, cost-effective, and scalable solution. Compared to conventional methods, microduct solutions offer faster installation, reduced costs, and simplified network management.

WHY MICRODUCTS ARE THE OPTIMAL SOLUTION FOR LAST MILE FTTH?

Faster Installation & Lower Costs

Microduct systems require less trenching and construction, leading to shorter deployment times. Branching microducts is easier than direct fiber splicing, reducing the need for specialized labor and complex installations.

Flexible & Scalable Design

Microducts support various last-mile configurations, including SDU (Single Dwelling Unit), MDU (Multi-Dwelling Unit), and aerial installations.
Expandable infrastructure allows for future network upgrades without major reconstruction

Easier Fiber Distribution & Management

Microduct systems enable pre-installed pathways, making future fiber additions or replacements quick and seamless.
Multiple tube sizes provide options for different last-mile deployment strategies.

WHY MICRODUCTS ARE THE OPTIMAL SOLUTION FOR LAST MILE FTTH?

Enhanced Reliability & Reduced Fiber Splicing

Unlike traditional fiber installations where cables must be spliced at multiple points, microduct solutions allow fiber to be blown directly to the end-user, reducing failure points.
Thick-walled and ruggedized ducts provide additional protection for fibers, ensuring long-term durability.

Optimized for Any Environment

Supports aerial, buried, and indoor installations, making it adaptable for any last-mile scenario.
Low-smoke zero halogen (LSZH) microducts are available for indoor installations, ensuring compliance with safety regulations.

VARIOUS MICRODUCT CONFIGURATION CHOICES

7/3.5, 7/4,8/5mm

LSZH/Riser Rated

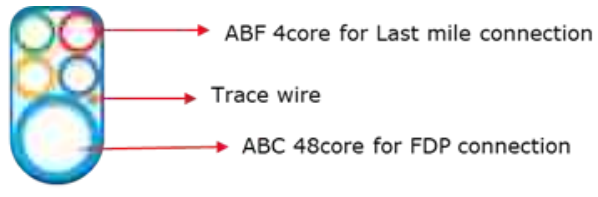
Aerial (FRP, Steel Messenger)

1way with Trace wire

Combined Microduct

14/10mm tube for Distribution cable 48core

7/3.5mm tube for Last mile cable ABF 4core

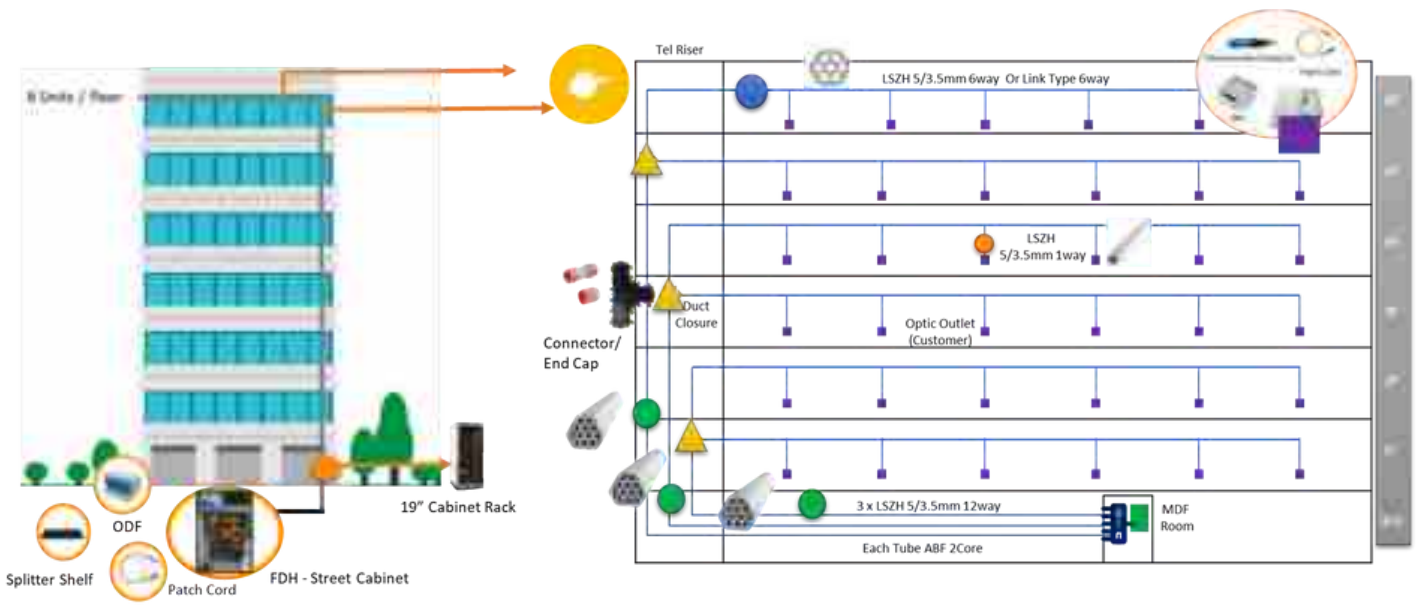


SDU- All subscribers' management can be done in FDH by installing splitter and connecting fiber(generally 2 Core) to each subscriber. You can install a Ruggedized duct, Thick DB, or DB HS 1way to protect fiber, which connects the distribution point and each subscriber.

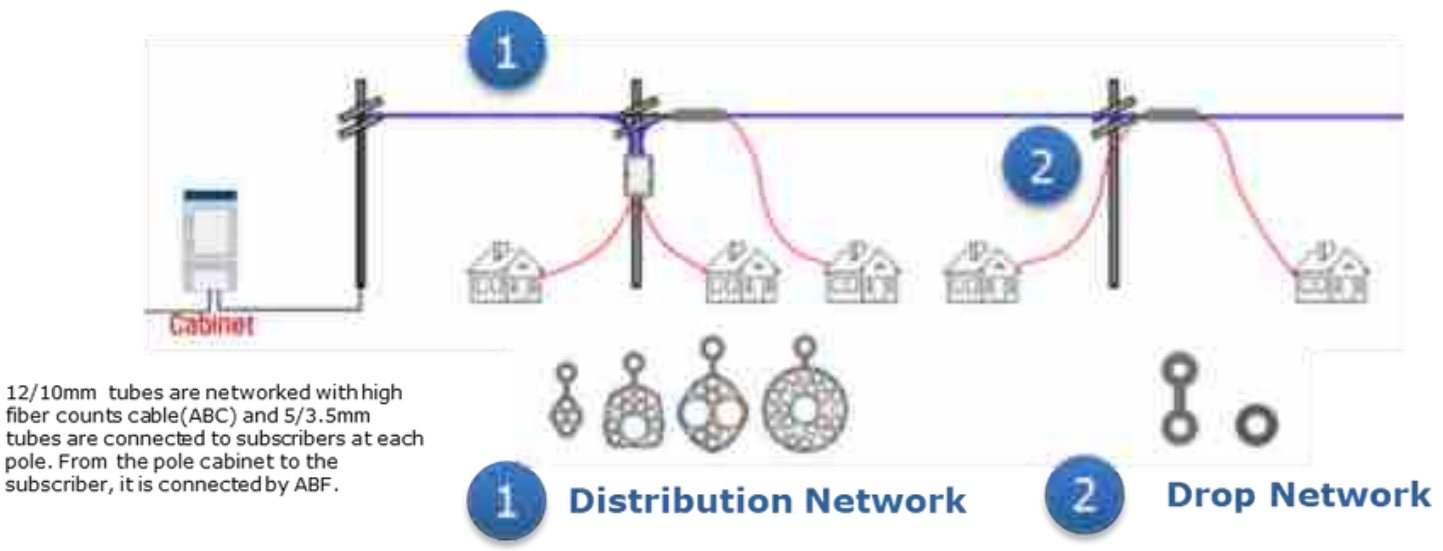
Provides Solutions for Next

VARIOUS MICRODUCT CONFIGURATION CHOICES

MDU and high-rise buildings often offer the highest subscriber density and can be very rewarding projects but offer unique challenges as well. It is often very difficult or impossible to re-access infrastructure after the building is complete. With microduct preinstalled to each unit fiber drops can be blown in by a single installer as customers take service, saving most of the material cost such as fiber drops, until a customer takes service



Microducts can be installed aerially when underground deployment is challenging due to rocky soil or freezing conditions. Knet aerial microducts are self-supporting, with fiberglass or steel strength members for durability. They minimize fiber splicing, protect against rodents, and enable cost-effective future expansions with cable blowing technology.

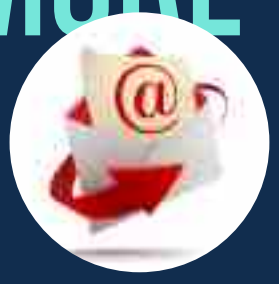


How Knet Microduct Solutions Improve Last Mile FTTH Deployment?

- Flexible microduct configurations for SDU, MDU, and aerial applications.
- Minimized civil work costs with pre-planned microduct pathways.
- Future-proof network expansion with scalable microduct assemblies.
- Reliable fiber protection, reducing failures and maintenance needs.

Are you ready to optimize your Last Mile fiber deployment?

NEED MORE TIPS?



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