



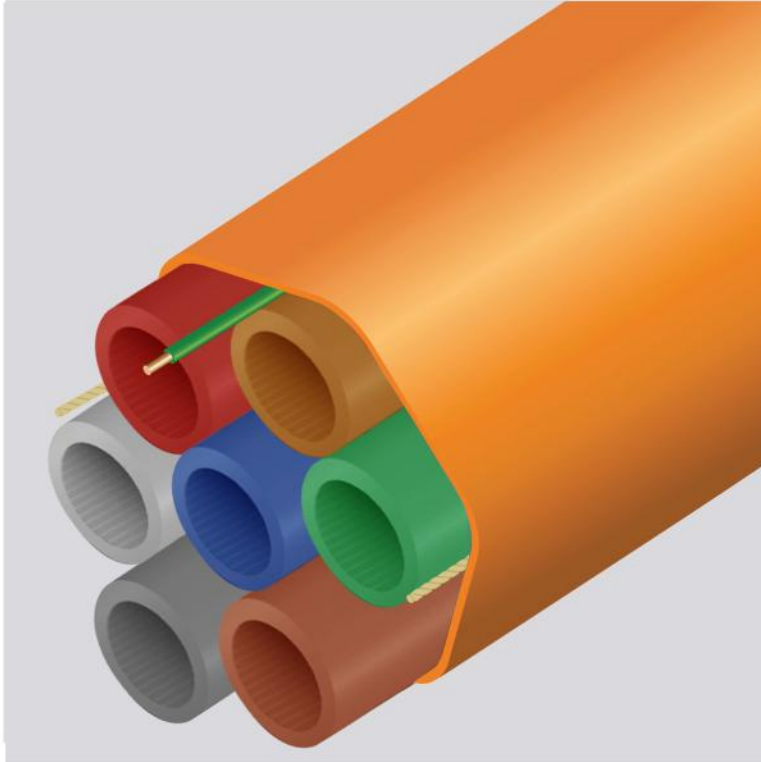
HDPE MICRODUCTS

FOR FIBER OPTICS



Utility Companies
Broadband Network
Hospital
Campus
Developers
Government





INTRODUCTION

In today's world, where technology, data & connectivity are more integral than ever, HDPE Microducts empowers high-speed telecommunications networks with a comprehensive range of innovative products, from HDPE Ducts & Microducts to advanced accessories. Our relentless pursuit of excellence is underpinned by continuous investments in cutting edge manufacturing technologies & a knowledgeable workforce.

With the fast growing demands of network today, the HDPE Microducts allow for a more economic & advantageous method for optic fiber installation through better utilization of space within existing ducts.

Microducts are typically small-diameter, flexible, or semi-flexible, while ducts are larger in diameter. They are designed to provide clean, continuous, low-friction paths for placing optical cables that have relatively low pulling tension limits.

Ducts & Microducts are made of the highest quality HDPE outer layer with smooth inner layer.

APPLICATIONS

HDPE Microducts are a versatile & scalable network of products. This ducting is ideal for telecommunication providers, FTTH solutions, hospitals, utility & energy providers, transportation, entertainment government facilities, corporate complexes, university campuses, military site application & anywhere high speed communications are needed



Utility Companies

System monitoring & controlling, & network data communication.



Broadband Network

FTTH (Fiber To The Home) & FTTX (Fiber To The X = multiple destinations) providers using optical fiber to provide high speed service to end subscribers.



Hospital

Secure the entire hospital network to stay current with advances in data-intensive medical technology & limits staff & patient disruptions.



Campus

Adapts communication technologies to the tools of education in campus environments plus allows for interaction between outside organizers nationally & abroad for greater cooperation.



Developers

Helps with fiber installation to the home so that developers can provide high speed internet service to their customers while allowing for upgrades.



Government

Fiber moves, adds & changes are made quickly & enable segmented & secure networks in the same microduct configuration.

HDPE MICRODUCTS - CONCEPT

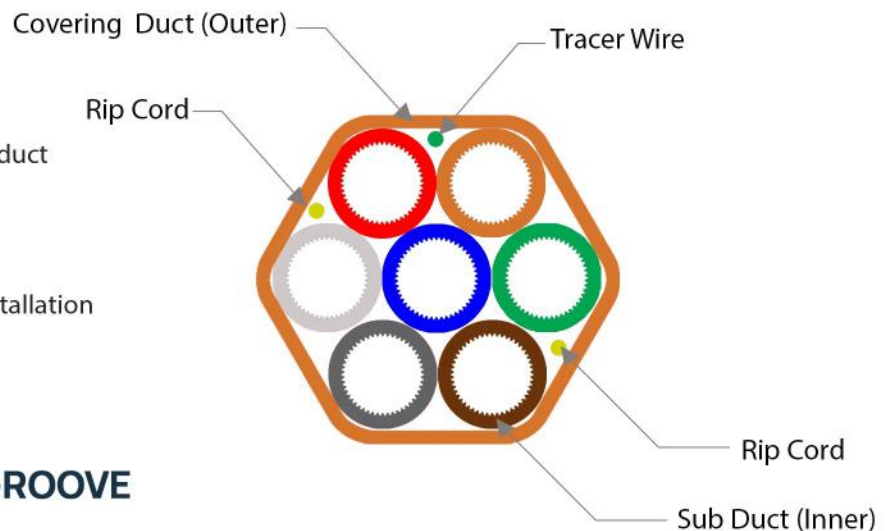
- As fiber cables become lighter, there is an increasing need for improved “Constructability” and “Efficiency.”
- HDPE Microducts maintain its key strengths—“PHYSICAL STRENGTH” and “EXCELLENT CONSTRUCTABILITY”—while reducing both size and weight to optimize work efficiency.

Covering Duct (Outer)

Protects inner ducts from external pressures
Prevents damage during the removal of the outer duct

Sub Duct (Inner)

Offers an integrated structure for cost-effective installation
without the need for additional insertion work.



CORE INNER LAYER GROOVE

The inner layer of the pipe is designed with ribbed section to minimize friction during the insertion of Fiber Optic Cables.

HDPE MICRODUCTS



Low Friction



Various Configuration



Connector Easy



High Durability

The HDPE Microducts pipe is a bundle of pipes that is made up of several Microduct Single pipes. This pipe bundle is used in network applications such as FttH (Fibre to the Home)

DESCRIPTION

Dimensions

Available in configuration with 4 to 7 pathways, with sizes ranging from 7 - 20 mm OD; Versions DI (direct install) & DB (direct buried)

Pipe Construction

Standard version : Microduct Multi DB with 1 mm, flexible PE outer sheathing, no adhesion with the individual ducts. The standard sheathing is orange or black, optionally with stripes. Other color variation on labelled using inkjet printing at a distance of a meter.

They are suitable for direct buried installation & for inserting or pushing into cable shafts, into HDPE Ducts or other pipe system. Microduct Multi pipes can be used in construction sites such as open cut, Micro trenching, Mini trenching & HDD.

Material : HDPE

Joining Technology : Plug-in Connections

Form of Delivery : Metal Drums

HDPE MICRODUCTS

FEATURES

• Constructability & Safety

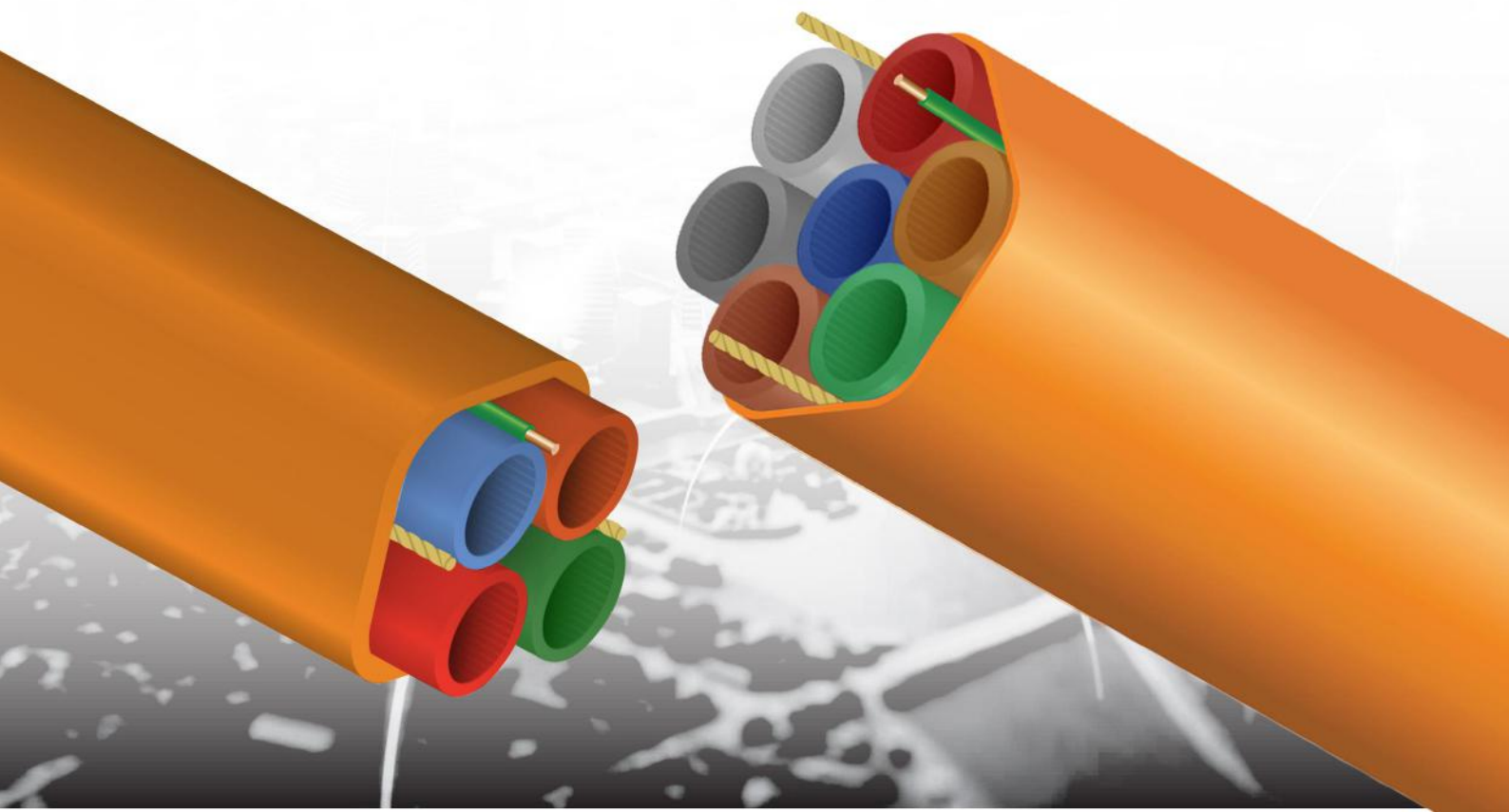
- Easily inserted owing to:
 1. "Multi Ducts in One"
No need for additional work to insert inner ducts
 2. "Coiled up to 2,000 Meters"
No fittings required between manholes
- Excellent Flexibility does NOT require EXTRA Manholes at the job site below.
 1. Curved Sections
 2. High and low-level installations in difficult areas
- UV protection to prevent duct cracking.

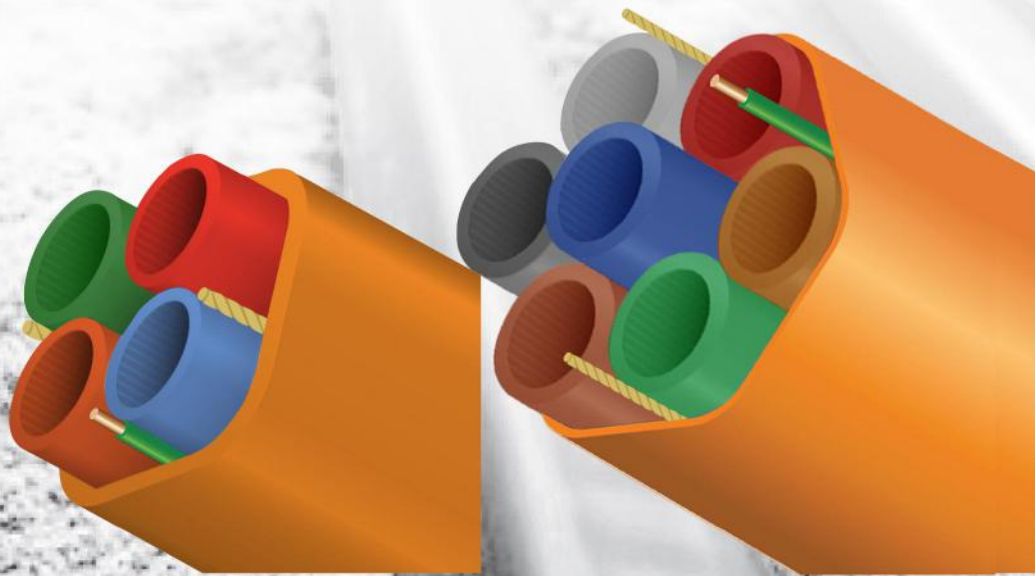
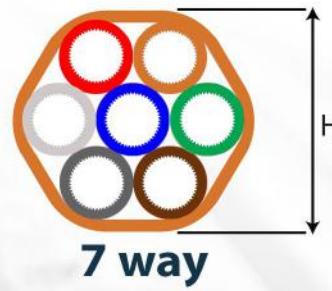
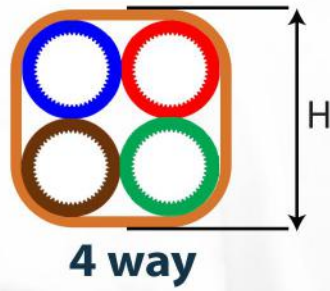
• Material for Strength

- The corrugated surface, made from HDPE, the most durable and crack-resistant material, provides strong protection against external pressures
- It is shrink-proof and offers excellent durability against heavy soil loads

• Other Notable Features

- Maximized space efficiency with integrated Multi-Ducts
- Air-blown installation supports distances over 1 km, even in challenging conditions like "Curves" or "U-Turns"
- Various combination of Sub-Ducts available upon request
- Prevents twisting of inner ducts.





DIMENSIONS

Sizes (Casing)	Type	Bundle			Height (H) (mm.)	Length/roll (m.)
		Nominal OD (mm.)	Wall Thickness (mm.)			
			min	max		
14/10	4 way	30.0	0.9	1.3	30.7	2,000
	7 way	44.0	0.9	1.3	40.8	1,500
16/12	4 way	34.0	0.9	1.8	34.0	2,000
	7 way	50.60	0.9	1.8	46.30	1,500

Note: OD = Outside diameter, ID = Inside diameter
 250 M and 500 M cutting length are also available for special orders (Made to Order)



PROJECT PHOTOS



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