



An Orbia Connectivity  
Solutions business.



# Dura-Line Solutions Guide



# CREATING WHAT CONNECTS US



Dura-Line is a leading manufacturer and distributor of high-density polyethylene (HDPE) conduit, accessories, and other connectivity solutions for the telecommunications, data center, and power markets. With a long-standing reputation for the safety, efficiency, and durability of our products, Dura-Line creates the physical pathways for fiber and power networks that connect people worldwide.

## DURA-LINE IN NUMBERS

21

MANUFACTURING FACILITIES

50+

YEARS OF LEADERSHIP

1.5K

EMPLOYEES

500M

METERS OF INFRASTRUCTURE PRODUCED ANNUALLY



## An Unparalleled History of Innovation





# Why HDPE?

HDPE is a lightweight, durable, and flexible material, capable of being extruded as MicroDucts as small as 5 mm, or large-diameter pathways up to 12 inches (300 mm) in diameter.

Available in an array of colors, it provides superior resistance to natural or mechanical damage compared with alternatives and has excellent low-temperature properties.



## Nothing But the Best is Good Enough

We source high-quality raw materials from trusted suppliers, so we know they will meet your requirements. By the time your conduit is installed, you can be confident in its performance and traceability all the way back to the resin used to manufacture it.



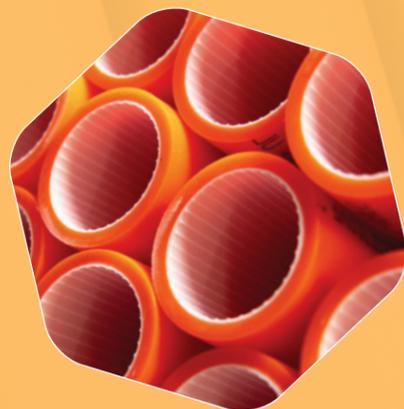
## The Dura-Line Solution

A comprehensive portfolio for mission-critical networks of any size, scale, and location:



### MicroTechnology

MicroDucts and FuturePath that unlock higher fiber capacity with a smaller installation footprint.



### Standard Conduit

Tried-and-trusted products with larger diameters that stand the test of time.



### Specialty Conduit

Standard pathways, engineered to meet application-specific requirements.



### Accessories

A comprehensive range of products to make your installation easier, faster, and safer.



### Training

Industry-leading online education to get you field-ready faster, from Dura-Line Academy.

# Confidence you can install.

The scale of an industry leader with the agility of a local partner.  
For repeatable success, project after project.

## That's the Dura-Line Difference.



### Designed for End-to-End Control

Your trusted partner, with you from specification through installation support.



### Built for Reliable Supply

Domestic manufacturing and nationwide distribution keep your projects moving.



### Engineered for Real-World Performance

Products tested in real-world conditions before they reach your jobsite.



### Footprint

14 plants and 100+ stocking locations in the US & Canada



### Testing

Lab, plant, and test-track validation.



### Performance

UL- and CSA-listed conduit and accessories



### Quality

ISO 9001, 45001, and TL 9000 certified



### Support

Dedicated sales, customer service, and field application engineering



## Confidence Before You Install

Dura-Line Academy offers 65+ mini courses on products, applications, and installation best practices. See page 8 for more information.

# Get Field Ready, Faster with Dura-Line Academy

Dura-Line Academy offers 65+ mini courses on industry products, fiber and power applications, and installation best practices.



Learn in 15 minutes or less with interactive mini courses

- > Intro to Fiber-Optic Theory
- > Understanding Bend Radius
- > Connecting MicroDucts and Splicing FuturePath, and more!

Complete full courses to earn certificates and BICSI CECs

- > Conduit Installation
- > MDU Installations
- > OverRides and Subdividing Conduits, and more!



Learn from the experts with our training partners:



## Create a free account today!

Scan the QR code or visit [www.duraline.com/academy](http://www.duraline.com/academy)  
Question? Contact [academysupport@duraline.com](mailto:academysupport@duraline.com)



Dura-Line Academy is a proud BICSI Continuing Education Credit (CEC) provider.



# SILICORE<sup>®</sup> ULF

## QUICKER SLICKER FASTER BETTER

Dura-Line's SILICORE<sup>®</sup> ULF is an ultra-low friction, permanent, co-extruded lining that allows cable to be installed safer, faster, and farther than ever.

The super-slick, non-greasy lining boasts a greater than **60%<sup>1</sup> lower coefficient of friction** than standard HDPE conduit.

Testing at Dura-Line's state-of-the-art, world-class test track has shown that you can air-jet fiber optic cable into a MicroDuct lined with SILICORE ULF almost **5 times farther<sup>2</sup>** than without it.

### Features

- > Permanent. Remains unchanged for life of conduit.
- > Lowest coefficient of friction available.
- > No performance loss in all temperature conditions.
- > Identifiable by its contrasting white color.

### Benefits

- > Bypass or eliminate handholes.
- > Reduce the need for permitting.
- > Scale down environmental impact.
- > Save time and money on messy lubricants.
- > Enjoy fewer jetting setups.

## FIELD-TEST RESULTS<sup>3</sup>

### Air-Jetting Distance

16/12 mm MicroDucts (internal ribs)

### HDPE vs SILICORE ULF

HDPE MicroDucts (no lining)

1,044 ft.

HDPE MicroDucts with SILICORE ULF

5,134 ft.



### Pulling Tension

1" SDR 13.5 HDPE Smoothwall Conduit HDPE vs SILICORE ULF

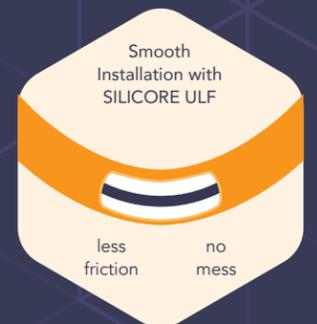
637 lbs.

HDPE Conduit (no lining)

55% LESS PULLING TENSION

288 lbs.

Conduit with SILICORE ULF



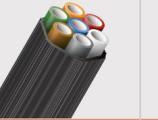
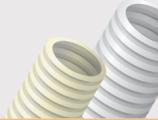
Watch a short animation and learn more about the benefits of **SILICORE ULF**.

<sup>1</sup>62.5%. Testing performed on 1 1/2" SDR 13.5 smoothwall conduits, utilizing an HDPE sheathed cable, with and without SILICORE ULF. Coefficient of friction according to Dura-Line's internal test method: SILICORE ULF 0.07, Silicore 0.1, and non-lubricated HDPE conduit 0.18-0.22

<sup>2</sup>4.92 times farther. To see the full report on the test results, email [marketing@duraline.com](mailto:marketing@duraline.com).

<sup>3</sup>All testing performed at Dura-Line's Eagle Way Test Track in Clinton, TN (USA) from Nov. 29 - Dec. 2, 2022, with MicroDucts and conduits installed in the ground over a 2700-ft (823 m) loop with multiple handholes.

Note: Your results may vary, as many factors influence jetting distances (e.g., bends in pathway, gravity, weather, etc.).

	MicroTechnology									Specialty Conduit						Standard HDPE			
																			
Installation/ Application	Direct Buried, Overrides, Plow, Trench, etc	Direct Buried, Plow, Trench	Direct Buried, Plow, Trench	Direct Buried, MicroTrench	Direct Buried, Plow, Trench	Aerial	Aerial	Overrides, Plow, Subdivided, Trench	Riser, Plenum, Low Smoke Zero Halogen (LSZH)	Aerial	Direct Buried, Plow, Trench	Direct Buried, Rodent/Impact Resistant	Trench	Indoor Use, Premise	Tunnels, Confined Spaces	Existing Conduit, Plow, Direct Buried, Aerial	Existing Conduit, Plow, Direct Buried, Aerial	Existing Conduit, Aerial	Existing Conduit, Indoors, Short Runs
Sizes	5 mm– 27 mm OD MicroDucts	Two or more duct sizes under one sheath	Two or more standard conduits under one sheath	12.7/10 mm 18/14 mm	8.5/6 mm 12.7/10 mm	10 mm–22 mm	8.5/6 mm, 12.7/10 mm, 16/13 mm, 18/14 mm	5 mm–27 mm	5 mm–27 mm	1 1/4", 1 1/2", 2" (1/4" or 3/8" Strand)	1/2" - 2"	1 1/4"	2", 3", 4"	1", 1 1/4", 1 1/2"	1/2" – 1 1/4"	1/2" – 12"	1" – 6"	1" – 1 1/2"	1", 1 1/4", 1 1/2", 2"
Configuration or Wall	2-way–24-way	2-way–15-way	2-way-4-way	2-way, 4-way, 6-way, 8-way	4-way 7-way 19-way	2-way, 3-way, 4-way, 7-way	Single, 2-way, 4-way, 7-way	Multiple Options	Single, 2-way–24-way	SIDR 9 TSDR 13.5	SDR11/13.5 SCH40	SDR	Standard	Standard	SDR11/13.5, SCH40/80	Various SDR, SIDR, TC-7, SCH40/80, and UL Listings	Various SDR, SIDR, SCH40/80, and UL Listings	True SIDR	Standard or Split
Footage Markings	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
Packaging	Reels	Reels	Reels	Reels	Reels	Reels	Reels	Reels	Reels	Reels	Reels	Reels	250' Coils	Coils, Reels	Coils, Reels	Reels, Coils, Multiple Ducts/Reel, Sticks	Reels, Coils, Multiple Ducts/Reel	Reels, Coils, Multiple Ducts/Reel	Reels, Coils, Lengths
Color/Stripe	Full Color Range Oversheath Color Options	Full Color Range, Black Oversheath with UV and Thermal Protection	Full Color Range, Black Oversheath with UV and Thermal Protection	Full Color Range	Dull Yellow Opaque White Chalky White	Black with UV & Thermal Protection	Full Color Range	Full Color Range, Orange Oversheath	Red or Gray	Orange White	Chalky White	Full Color Range Stripe Options	Full Color Range Stripe Options	Full Color Range Stripe Options	Full Color Range Limited on 2"				
SILICORE ULF	SILICORE® ULF Standard	SILICORE® ULF Standard for MicroDucts	SILICORE® ULF Standard for MicroDucts	SILICORE® ULF Standard	SILICORE® ULF Standard	SILICORE® ULF Standard	SILICORE® ULF Standard	SILICORE® ULF Standard	SILICORE® Standard, except LSZH	SILICORE® ULF available	SILICORE® ULF Available	SILICORE® ULF available	No	SILICORE® available	No	SILICORE® ULF available up to 6"	SILICORE® ULF available up to 3"	SILICORE® ULF available	No
Ribs	Internal Ribbs	Internal Ribbs for MicroDucts	Internal Ribbs for MicroDucts	Internal Ribbs	Internal Ribbs	Internal and External Ribbs	Internal Ribbs	Internal Ribbs	Internal Ribbs except LSZH	Smooth Only	Internal Ribbs Available	Smooth Only	Smooth Interior, Corrugated Exterior	Corrugated	Smooth Only	No	Internal Ribbs	Internal and External Ribbs	Corrugated
Pre-Installed Rope/Tape	No	No	No	No	No	No	No	Pull String Available	Pull String Available	Yes	Yes	Yes	No	Yes	No	Yes, 0.5"– 6"	Yes	Yes	Yes
PinPoint/ Locate Wire	Optional Locate Wire Under Sheath	Optional Locate Wire Under Sheath	Optional Locate Wire Under Sheath	No	No	No	No	Locate Wire on Locatable MicroDucts	No	No	Yes	No							
Pre-Installed Cable	No	No	No	No	No	No	No	Pre-installed Cable Available	Single MicroDuct only	No	No	No	No	No	No	Yes, up to 3"	Yes, up to 3"	Yes	No

## HDPE Conduit Standards

Dura-Line extrudes HDPE conduit in accordance with the requirements of the commonly used industry standards for the material, dimensional and final product testing. Below is a list of commonly used standards, one of which can be chosen to best meet your specific cable installation requirements.

### Standards include:

- ASTM F2160
- NEMA TC-7
- UL 651A
- UL 1990
- ASTM D3485
- CSA 22.2



# Popular Accessories

Dura-Line offers a complete line of Bull-Line® Pull Tape, lubricants, couplers, tools, and accessories designed to make your cable installation highly successful. Highlighted below are a few of our most popular products. Please visit our website or contact your sales representative for more details.



## Bull-Line® Pull Tape

- › Choose from woven polyester, locatable or aramid Bull-Line® Pull Tape
- › Available in pull strengths from 500 lb – 6,000 lb tensile strengths
- › Can be pre-installed into conduit
- › Lowest burn-through resistance
- › Easily jetted into conduit
- › Accurate sequential foot or meter markings
- › Locatable tracer wire option
- › Test results prove that Bull-Line is superior when compared to competitor brands



## Lubricants & Chemicals

### Hydra-Seal Sealants

- › Developed with high-performance properties, yet safe and user-friendly.
- › Packaged in multiple forms for convenience and available with a variety of complimentary accessories.

### Lubricants

- › Formulated to meet specific requirements, our lubricants are available in a wide range of polymer and silicone-modified formulations in gel, creamy gel, or pourable forms.
- › We offer a lubricant to match the type and weight of cable to be placed.
- › Our lubricants are UL-listed and available in summer and winter grades.



## Splice Kits

- › FuturePath Splice Kits provide all the necessary components to join segments of FuturePath. Kits include correct size of sleeve, couplers, sealant strips, vinyl tape and locate wire connector.



## ConduitConnect™ Coupler

- › Ideal for joining HDPE or PVC sticks but can also be used with continuous-length, reeled HDPE products.
- › Air- and water-tight with a pre-lubricated gasket for easy installation.
- › High-strength HDPE body is ideal for buried duct applications, including duct banks.
- › Specialized for use by electrical installers requiring ETL/UL certification.



## Shur-Lock™ II Coupler

- › Designed for coupling HDPE and PVC conduit and dissimilar conduits such as HDPE to PVC, threaded or non-threaded metal conduit, or fiberglass (FRP) conduit.
- › Stainless steel band clamps, locking ring, and pre-lubricated O-ring forms an air-tight seal to withstand 125 psi on 1"-3" sizes.
- › Specialized for use by electrical installers requiring ETL/UL listing.



## Clear-Lock Coupler

- › Simple, one person "push-on assembly."
- › Clear midsection gives added visibility during installation.
- › Provides visual confirmation of the pipe within the coupler, ensuring the pipe has been properly seated at the center stop.
- › Ideal for pull boxes, vaults, or other limited access areas.



## Micro Couplers and End Caps

- › Micro Couplers are used to join two segments of MicroDucts. Straight and transition couplers are available. Multiple sizes available from 5 mm to 27 mm.
- › Micro end caps keep MicroDucts clean and free of debris. Sizes available from 5 mm to 27 mm.
- › Gas block connectors provide a simple and effective gas seal between the MicroDuct and the fiber cable.



## Cutters

- › Using the correct tool for the job makes all the difference. Choose from a variety of cutters designed with a special purpose in mind, making the job go safely, smoothly, and quickly.
- › The MicroDuct Straight Cutter will make a 90° cut of the MicroDuct also cutting whatever is inside.
- › The MicroDuct Round Cutter will only cut the MicroDuct, not what is inside.
- › Longitudinal Slitters are used to slit the FuturePath oversheath.

# Telecommunications

Communications networks are the backbone of modern society, and Dura-Line provides the foundation. From the high-capacity links between cities to the final drop that connects your home — and everything in between — we create what connects us.

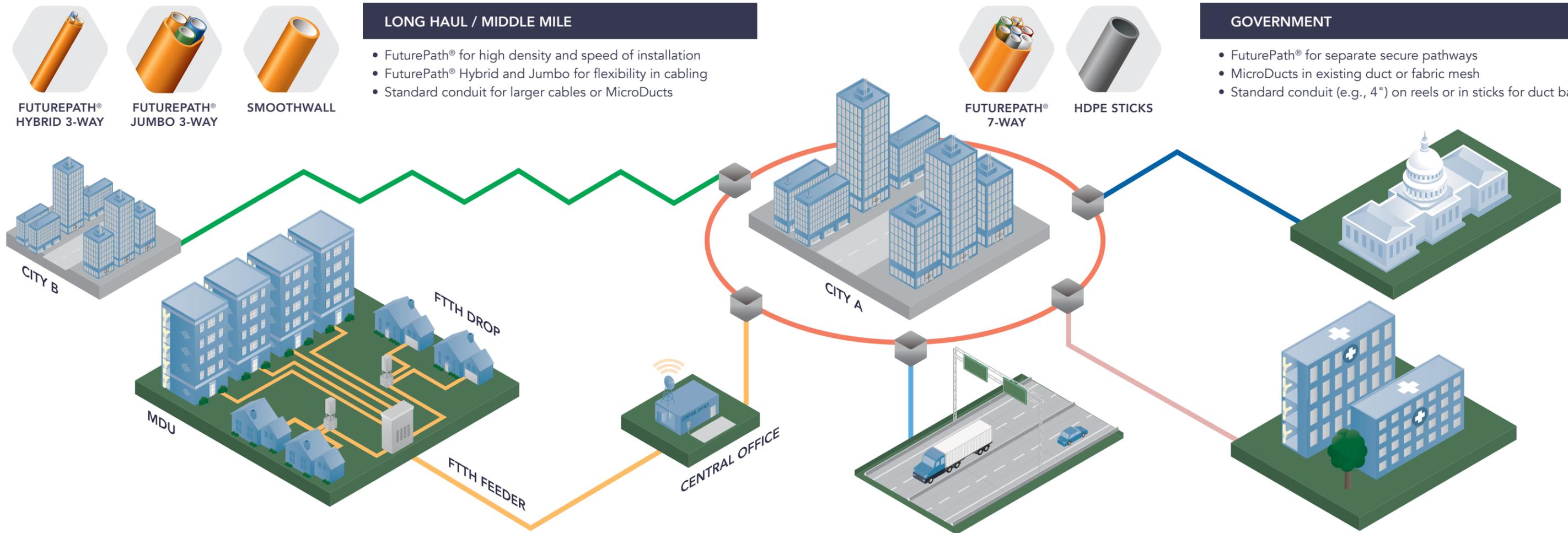
# APPLICATIONS

## LONG HAUL / MIDDLE MILE

- FuturePath® for high density and speed of installation
- FuturePath® Hybrid and Jumbo for flexibility in cabling
- Standard conduit for larger cables or MicroDucts

## GOVERNMENT

- FuturePath® for separate secure pathways
- MicroDucts in existing duct or fabric mesh
- Standard conduit (e.g., 4") on reels or in sticks for duct banks



## MDU

- Riser, plenum, and LSZH for inside the MDU

## FTTH

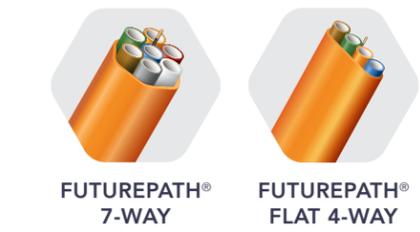
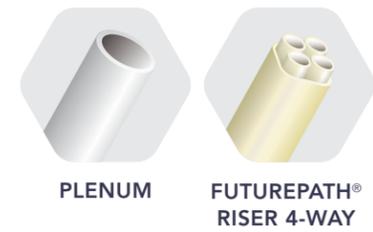
- FuturePath® for flexibility and scalability in any topology with aerial options available
- Locatable MicroDucts for buried drops

## TRANSPORTATION

- FuturePath® for high-capacity ITS networks
- Flat bundles enable MicroTrenching for faster deployments

## ENTERPRISE

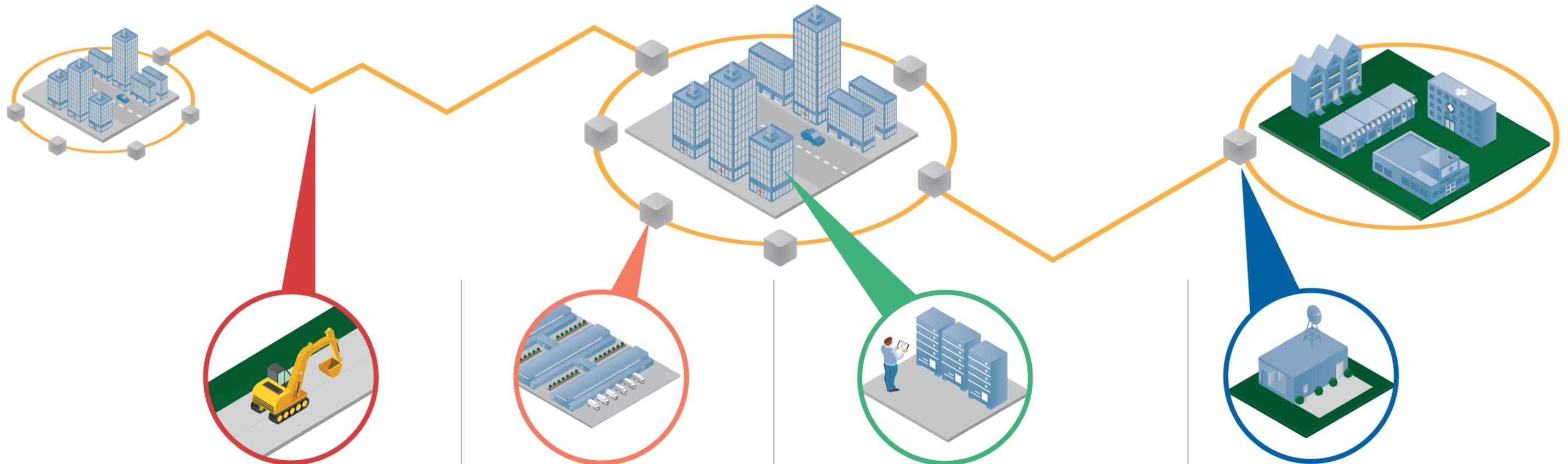
- MicroDucts and FuturePath® for flexibility and scalability
- Riser, Plenum, and LSZH for fire resistance
- End-to-end cable jetting



# Data Centers

As the nervous system of the internet, the need for data centers and the networks that connect them has exploded. Scaling up can be challenging, but Dura-Line offers solutions that can help you achieve the density you need for now with spare pathways for the future.

# APPLICATIONS



## LONG-HAUL/METRO DCI *Between cities/campuses*

- FuturePath® for high density and speed of installation
- FuturePath® Hybrid and Jumbo for flexibility in cabling
- Standard conduit for subdividing



FUTUREPATH®  
HYBRID 3-WAY



FUTUREPATH®  
JUMBO 3-WAY



SMOOTHWALL

## HYPERSCALE *On the Campus*

- Duct banks with HDPE sticks
- Subdivided with FuturePath®



HDPE STICKS



FUTUREPATH®  
7-WAY

## ENTERPRISE *Inside the DC*

- MicroDucts and FuturePath® for flexibility and scalability
- Riser and Plenum for fire resistance
- End-to-end cable jetting



FUTUREPATH®  
RISER 4-WAY



FUTUREPATH®  
PLENUM 2-WAY

## EDGE *At the Edge*

- MicroDucts and FuturePath® support local fiber networks



MICRODUCTS  
LOCATABLE

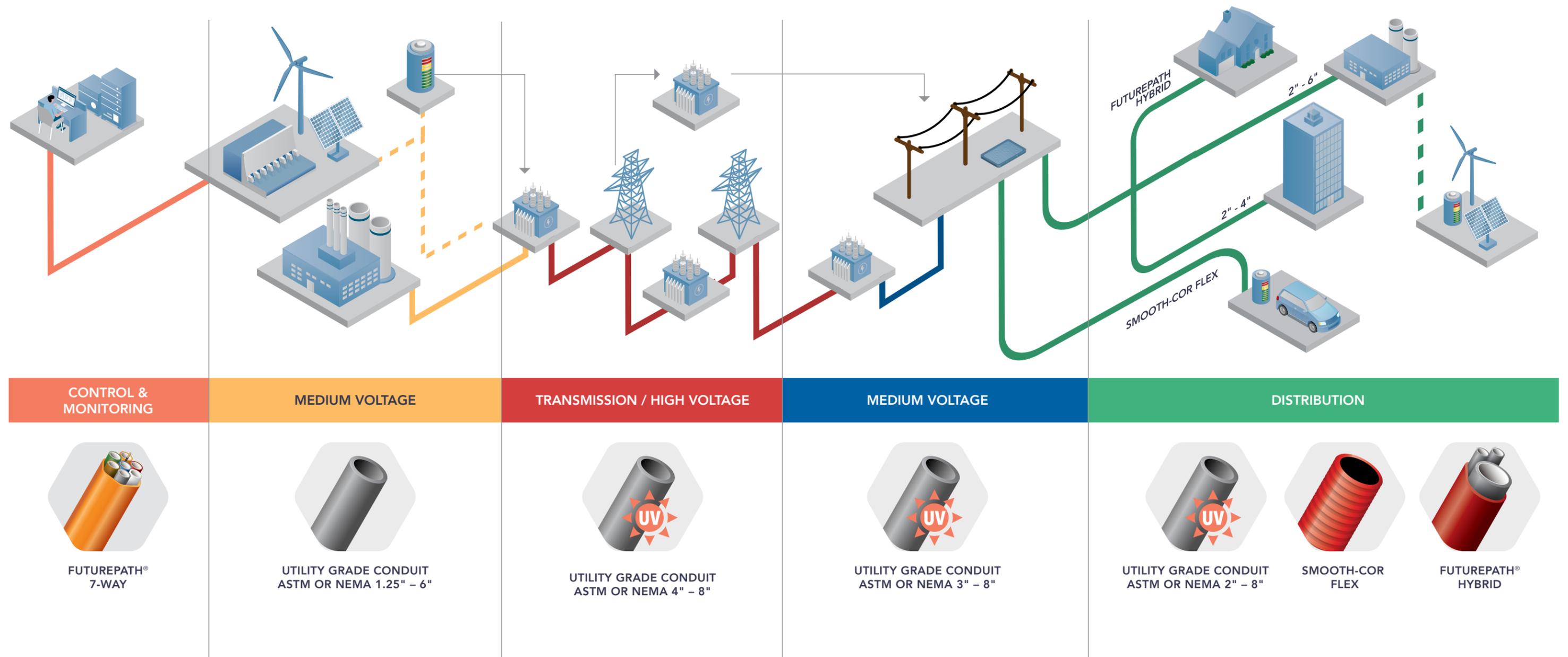


FUTUREPATH®  
7-WAY

# Power and Utilities

Power is changing. Extreme weather events and aging aerial infrastructure mean the future is underground. Dura-Line has solutions to help modernize and monitor the grid, meet increasing demands, and keep critical infrastructure safe underground for the long term.

# APPLICATIONS



# CREATING WHAT CONNECTS US

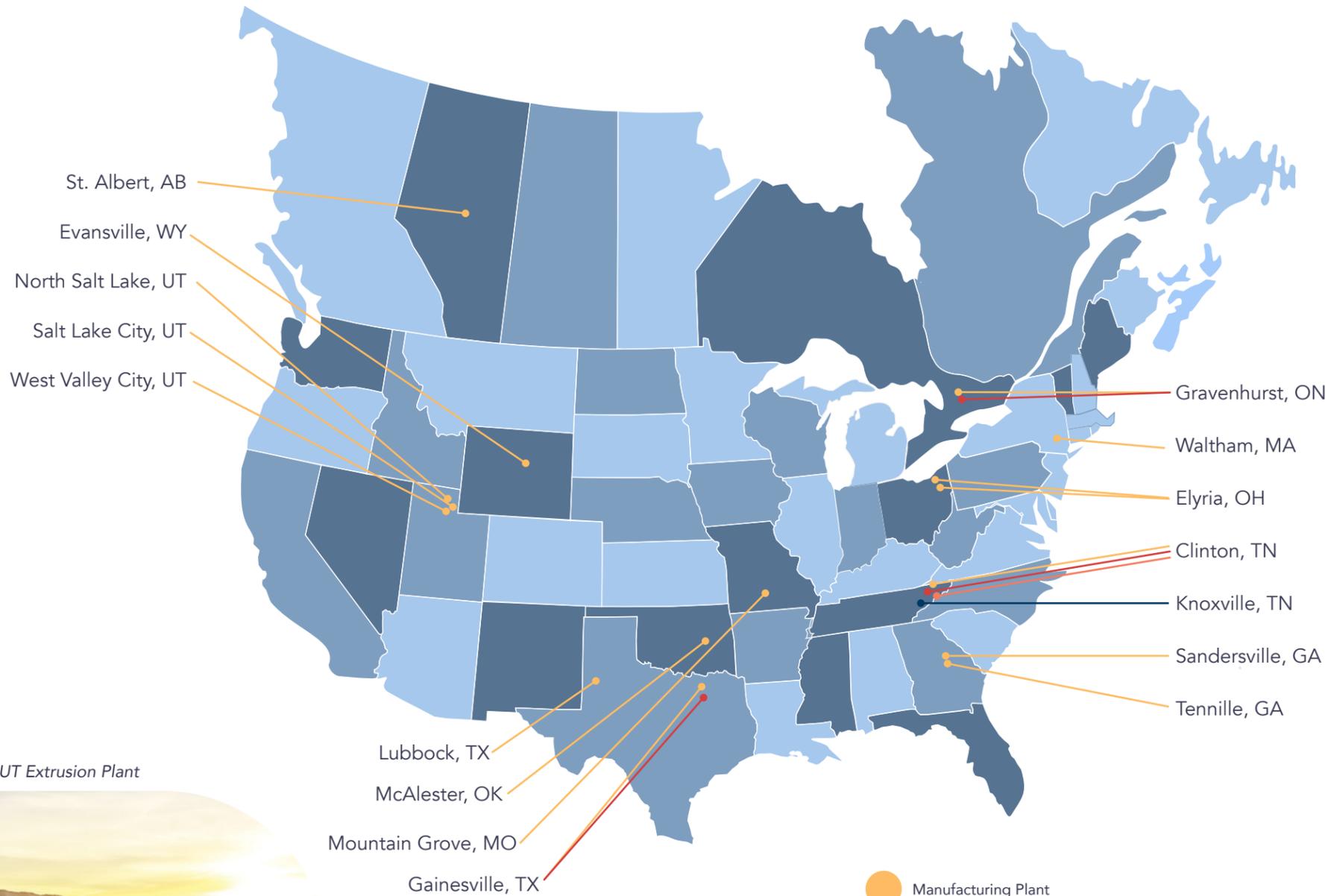
## DURA-LINE WORLDWIDE

**21**  
PLANTS

**2**  
R&D CENTERS

**4**  
OFFICES

**6**  
TESTING FACILITIES  
 Clinton, Tennessee  
 Gainesville, Texas  
 Gravenhurst, Ontario  
 Sochaczew, Poland  
 Goa, India  
 Bogota, Colombia



Salt Lake City, UT Extrusion Plant



FROM TOP:  
 Gravenhurst, ON Test Track  
 Clinton, TN R&D Lab  
 Clinton, TN Test Track



Orbia's Connectivity Solutions business, Dura-Line, is a leading manufacturer and distributor of high-density polyethylene (HDPE) conduit, accessories, and other connectivity solutions for the telecommunications, data center, and power markets. With more than 50 years of experience and a long-standing reputation for the safety, efficiency, and durability of its products, Orbia Dura-Line produces more than 500 million meters of infrastructure annually, forming the physical pathways for fiber and power networks that connect people worldwide.

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