dura·line

An Orbia Connectivity Solutions business.

PRODUCT SOLUTIONS

DURA-LINE IS TRANSFORMING

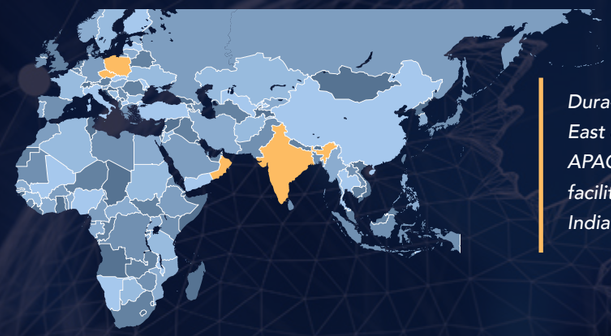
the Structure of Communication

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, transportation, and electrical 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 network technologies that connect people worldwide. Orbia Dura-Line has over 2,000 employees and 21 manufacturing facilities across the world – serving more than 50 countries through a global sales and distribution network.

Orbia Dura-Line is committed to providing a comprehensive quality experience to our customers, both in our products and service. We source the highest quality virgin HDPE resin, and perform internal testing to prove its quality. We test every metre of conduit extruded to confirm its performance and integrity prior to shipment. Our facilities are certified according to international standards ISO 9001, ISO 14001 and ISO (OHSAS) 45001.

We take pride in providing exceptional customer service and field support. Our team of expert sales and customer service representatives provide personal, responsive service in your language, and our Field Application Engineers provide customers on-site and remote support for all aspects of conduit network design and installation, including cable installation, whether you buy direct or through distribution.



Dura-line serves the Europe, Middle East & Africa (EMEA) and India & APAC regions via four manufacturing facilities located in Czechia, Poland India and Oman

a brief history of **Dura-Line**

1971
Founded in Middlesboro, KY, manufacturing water and gas products

1981
First to develop and offer conduit to the telecom industry

1981
First manufacturer of fiber optic subduct and duct with pre-installed Bull-Line® pull tape

ISO 9001 REGISTERED

1991
First ISO 9001 Certification

1986
Introduced SILICORE® super slick permanent lining

1985
First manufacturer to offer all major types of ducts including: Smoothwall, ribbed, corrugated, pre-installed fiber cable, pre-lubricated conduit, and fire-retardant conduit

1998
Introduced PinPoint® locatable duct and MicroDucts

1999
Introduced FuturePath® (bundled MicroDucts)

2003
Introduced fire-retardant MicroDucts

2005
Introduced FuturePath® Flex, fire-retardant FuturePath®, CIC, MicroDucts

TL9000

2022 and beyond
At our R&D Center in Clinton, TN, we are constantly innovating new products and solutions

like our recently launched SILICORE® ULF

2018
Introduced FuturePath® Figure-8 Self-Support Aerial and LSZH conduit and MicroDucts

2012
Total of 18 manufacturing facilities worldwide. Introduced new formulation SuperSILICORE®. TL 9000 Certification

Environment, Health, Safety and Sustainability (EHS&S) at Dura-Line

"Companies around the world invest in strong environmental, health and safety management, known as EHS. From an environmental standpoint, it involves creating a systematic approach to managing waste, complying with environmental regulations, or reducing the company's carbon footprint. From a health and safety standpoint, it includes measures to address ergonomics, air quality, and other aspects of workplace safety that affect employee health and well-being."

- National Association for Environmental, Health, Safety, and Sustainability (EHS&S) Management (NAEM)

At Orbia's Connectivity Solutions business, Dura-Line, we recognize the value of implementing sound environmental, health, safety and sustainability (EHS&S) practices in all aspects of our business.

As a leading manufacturer and distributor of high-density polyethylene (HDPE) conduit and other connectivity solutions, we believe our collective efforts as an industry lead to long-term benefits for our teams, our customers, the communities we serve, and the other stakeholders of our company.

As part of Orbia, we are driven by a shared purpose: to advance life around the world. Orbia is committed to limiting its contribution to the worst impacts of climate change in accordance with the Paris Agreement. To accomplish this, Orbia has adopted a set of science-based targets.

SCIENCE BASED TARGETS

DRIVING AMBITIOUS CORPORATE CLIMATE ACTION

Science-based targets provide a clearly-defined pathway for companies to reduce greenhouse gas (GHG) emissions, helping prevent the worst impacts of climate change and future-proof business growth. Targets are considered 'science-based' if they are in line with what the latest climate science deems necessary to meet the goals of the Paris Agreement – limiting global warming to 1.5°C above pre-industrial levels.

The GHG Protocol Corporate Standard classifies a company's GHG emissions into three 'scopes':

Scope 1 emissions

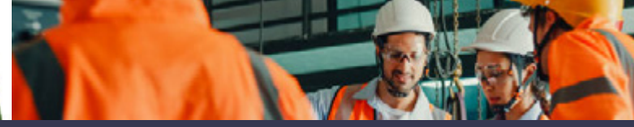
Direct emissions from owned or controlled sources.

Scope 2 emissions

Indirect emissions from the generation of purchased energy.

Scope 3 emissions

All indirect emissions (not included in scope 2) that occur in the value chain of the reporting company, including both upstream and downstream emissions.



Here are some of the ways we're working toward our EHS&S goals:

Sustainability

Dura-Line has committed to validated net zero greenhouse gas emissions by 2050. To reduce our value chain emissions and those of our customers, we've partnered with other businesses and organizations to implement responsible manufacturing practices as early in the production process as possible.

Broadly, we aim to:

- Maximize the resources we use
- Reuse what can be reused and achieve zero waste to landfill (90% landfill diversion)*
- Recycle everything that can be recycled

Here's how we're doing so far:

Decarbonization & Environmental Management Systems

- 32% reduction in Scope 1 & 2 emissions (2019 baseline) toward our 2030 goal of 47% reduction.
- 6 sites ISO 14001 certified toward our 2025 goal of 100% global certification.

Maximizing Resources

Water Use

- Dura-Line plants use closed-loop water systems, which allow us to reuse wastewater, and protect drinking water and local ecosystems.
- 0.47 m^3 water used per ton of production

Zero Waste to Landfill

- 83% of Dura-Line's total waste diverted from landfill in 2023, down 24% from 2022
- 6 sites achieved 12 months of ZWTL in 2023

Steel Reel Return Program:

- Dura-Line reused a total of 138,000 steel conduit reels in 2023

Recycling

- High-Density Polyethylene
- Broken pallets and scrap wood
- Mixed re-grind, scrap pipe, and floor sweep
- Mixed plastic packaging
- Cardboard
- Yarn bobbins from accessory plants
- Steel reels
- Wood reels
- Scrap pull tape

Safety

We're driven by our fundamental safety and sustainability values, and we strive to empower all in the organization to take the necessary action to prevent and stop unsafe activities and conditions.

Here are some of the ways we're advancing our EHS culture and performance:

Industry-leading Safety Metrics

- Dura-Line has achieved and sustained a TRIR that is >50% better than Plastic Pipe and Pipe Fitting Manufacturing*

Embracing Technology Solutions

We invest in and deploy the latest AI-assisted and automated safety technologies:

- Extrusion
- Reeling
- Plant monitoring

Orbia ESG Ratings and Rankings performance

Orbia's five business groups collectively perform strong across several global sustainability rankings, and maintain membership of key ESG indices.

*U.S. Bureau of Labor Statistics 2022 National Average TRIR is 4.2 for Plastic and Pipe Fitting Manufacturing.

orbia | Polymer Solutions | Building & Infrastructure | Precision Agriculture | Connectivity Solutions | Fluor & Energy Materials

ESG Ratings and Rankings performance:

MSCI ESG RATINGS BBB (CCC B BB BBB A AA AAA)

ecovadis 2023

CDP DRIVING SUSTAINABLE ECONOMIES

Member of key ESG Indices:

FTSE4Good

Member of Dow Jones Sustainability Indices Powered by the S&P Global CSA

Mission-Critical Products

Dura-Line's products are designed to provide fast, safe installation of communication networks and power cables for a wide variety of markets. Dura-Line products can frequently be found within the telecommunications, enterprise, networking, energy, and transportation markets.

HDPE Conduit

As a global industrial leader, Dura-Line designs and manufactures a wide variety of superior quality products while offering innovations for more efficient and easier installations.

Specialty Conduit

Dura-Line's family of products includes a variety of specialty conduits needed for unique applications and environments including locatable PinPoint, Tornado, and Tornado Plus.

MicroTechnology

Using MicroDucts are a better way to utilize that empty space, both today and tomorrow. It allows you to easily expand your fiber network and increase bandwidth as needed.

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
IEC 60794-1-21

SILICORE ULF

Quicker Slicker Faster Better

Dura-Line's SILICORE® 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% lower coefficient of friction1 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 farther2 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.

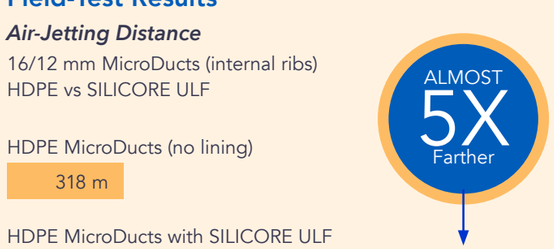
Benefits

- 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

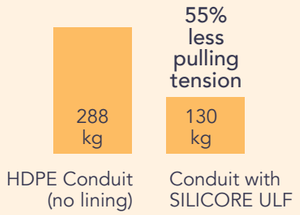
Air-Jetting Distance

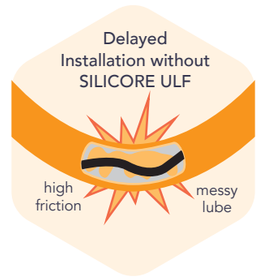
16/12 mm MicroDucts (internal ribs)
HDPE vs SILICORE ULF

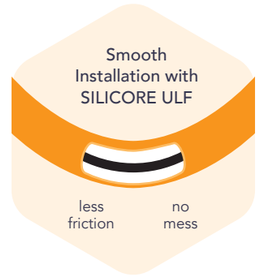


Pulling Tension

25/21mm HDPE
Smoothwall Conduit
HDPE vs SILICORE ULF







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

[1]62.5%. Testing performed on 1 1/2" SDR 13.5 smoothwall conduits, utilizing an HDPE sheathed cable, with and without SILICORE ULF.

[2]4.92 times farther. To see the full report on the test results, email marketing@duraline.com.

[3]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.).

Dura-Line Product Range

	Standard			Specialty			MicroTechnology - Inside Plant (ISP)	
	Smoothwall	**Smooth Out/ Ribbed In**	**HDPE Stick**	**PinPoint**	**Tornado**	**Tornado Plus**	**Low Smoke Zero Halogen MicroDuct**	**Low Smoke Zero Halogen FuturePath**
Installation / Application	Direct Install, Direct Buried, Plow, HDD,	Direct Install, Direct Buried, Plow, HDD,	Direct Buried, Open Trench	Direct Buried, Open Trench, Plow	Direct Buried, Open Trench, Plow, HDD	Direct Buried, Plow, HDD	Indoor Application, Tunnels, Confined Spaces	Indoor Application, Tunnels, Confined Spaces
Sizes (OD)	20mm–110mm	20mm–110mm	63mm–110mm	20mm–110mm	25mm–50mm	25mm–50mm	5mm–18mm	5mm–18mm
Configuration or Size (ID)	Multiple Options	Multiple Options	Multiple Options	Multiple Options	Multiple Options	Multiple Options	Multiple Options	2-way to 24-way
Meter / Footage Markings	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Packaging	Coils/Reels	Coils/Reels	Stick	Coils/Reels	Coils/Reels	Coils/Reels	Reels	Reels
Colour / Stripe	Full Colour Range Stripe Options	Full Colour Range Stripe Options	Full Colour Range Stripe Options	Full Colour Range Stripe Options	Full Colour Range Stripe Options	Full Colour Range Stripe Options	Chalky White	Chalky White
Inner Lining	SILICORE®	SILICORE®	SILICORE®	SILICORE®	SILICORE®	SILICORE®	SILICORE® ULF	SILICORE® ULF
Inner Ribs	No	Straight Ribs	Smooth or Straight Ribs (Oman only)	Smooth or Straight Ribs or Spiral Ribs	18-32# Spiral Ribs	5-8# Spiral Ribs	No	No
Optional Pre-Installed Rope / Pull Cord / Tape	Pre-Installed Rope	Pre-Installed Rope	Pre-Installed Rope	Pre-Installed Rope	Pre-Installed Rope	Pre-Installed Rope	Pull Cord	Pull Cord
Tracer Wire	No	No	Yes	Yes	No	No	No	No
Rip Cords	NA	NA	NA	NA	NA	NA	NA	Yes
Customizable	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

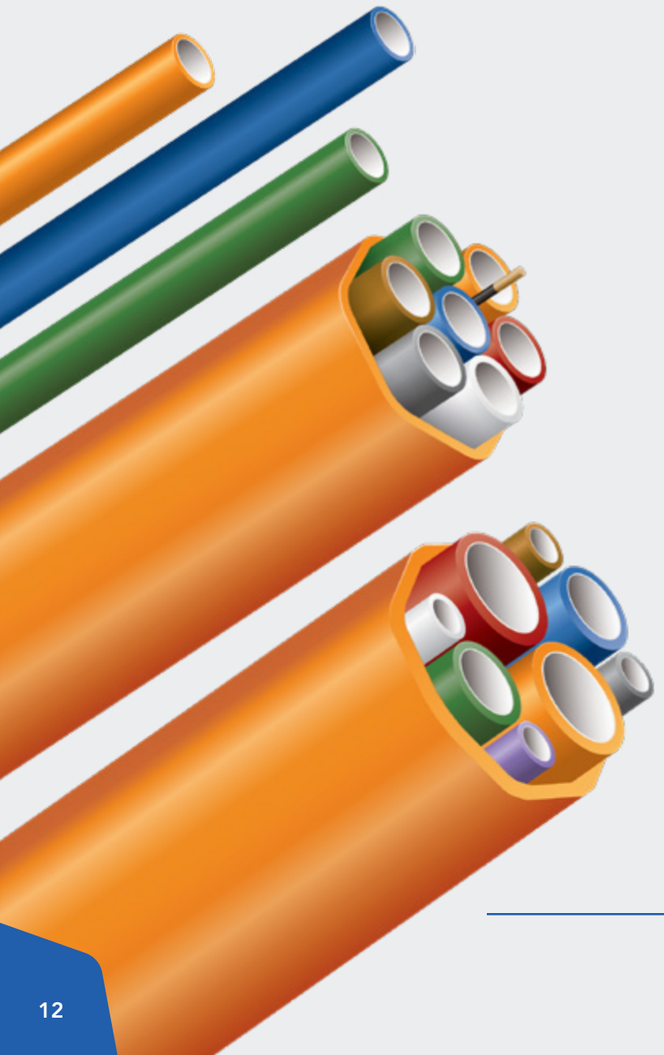
Dura-Line Product Range

	MicroTechnology - Outside Plant (OSP)					
	MicroDucts	**MicroDucts Locatable**	**FuturePath**	**FuturePath Jumbo**	**FuturePath Hybrid**	**FuturePath Flat**
Installation / Application	Direct Buried or Install, Overrides, Plow, Subdivided, Trench	Direct Buried or Install, Last Mile Applications	Direct Buried or Install, Overrides, Plow, Trench, HDD	Direct Buried, Plow, Trench, HDD	Direct Buried, Plow, Trench, HDD	Direct Buried, Trench, MicroTrench
Sizes (OD)	5mm–18mm	5mm–18mm	5mm–18mm MicroDucts	20-50mm Ducts	5-50mm MicroDuct or Duct	5-50mm MicroDuct or Duct
Configuration or Size (ID)	Multiple Options	Multiple Options	2-way to 25-way	2-way to 7-way	2-way to 26-way	2-way to 4-way
Meter / Footage Markings	Yes	Yes	Yes	Yes	Yes	Yes
Packaging	Reels	Reels	Coils / Reels	Coils / Reels	Coils / Reels	Coils / Reels
Colour / Stripe	Full Colour Range Stripe Options (Oman only)	Full Colour Range Oversheath Colour Options	Full Colour Range Oversheath Colour Options	Full Colour Range Oversheath Colour Options	Full Colour Range Oversheath Colour Options	Full Colour Range Oversheath Colour Options
Inner Lining	SILICORE® ULF	SILICORE® ULF	SILICORE® ULF	SILICORE®	SILICORE® SILICORE® ULF	SILICORE® SILICORE® ULF
Inner Ribs	Smooth or Ribs	Smooth or Ribs	Smooth or Ribs	Smooth or Ribs	Smooth or Ribs	Smooth or Ribs
Optional Pre-Installed Rope / Pull Cord / Tape	Pull Cord	Pull Cord	Pull Cord	Pull Cord, Pull Tape, or Rope	Pull Cord, Pull Tape, or Rope	Pull Cord, Pull Tape, or Rope
Tracer Wire	No	Tracer Wire (under oversheath)	Tracer Wire (under oversheath)	Tracer Wire (under oversheath)	Tracer Wire (under oversheath)	Tracer Wire (under oversheath)
Rip Cords	NA	NA	Yes	Yes	Yes	Yes
Customizable	Yes	Yes	Yes	Yes	Yes	Yes

MicroTechnology & FuturePath

As the demand for bandwidth continues to skyrocket, network builders need solutions that install fiber faster, lower or eliminate construction costs, and provide for future expansion, all with limited space available.

MicroTechnology is a forward-thinking, future-oriented technology that solves these concerns with MicroDucts and FuturePath. Both single MicroDucts or MicroDucts bundled together as FuturePath allow for controlled expansion of your network so bandwidth requirements can be scaled as needed. With FuturePath's multiple pathways, adding additional fiber is quick and easy without additional construction costs.



Why choose MicroTechnology?

Versatile

- Create space with an override in existing conduits
- Direct Buried, Directional Bore, Trench or Plow
- Aerial configurations
- MicroTrenching
- Indoor or OSP
- Long-Haul, Back-Haul, Metro, FTTx, MDU compatible
- Place MicroCables and larger standard fiber cables at the same time with hybrid configurations

Cost-effective

- Multiple pathways for the price of one
- Build to scale
- More efficient and faster fiber placement
- Smaller, fewer reels reduce handling, staging, shipping
- Easily repaired

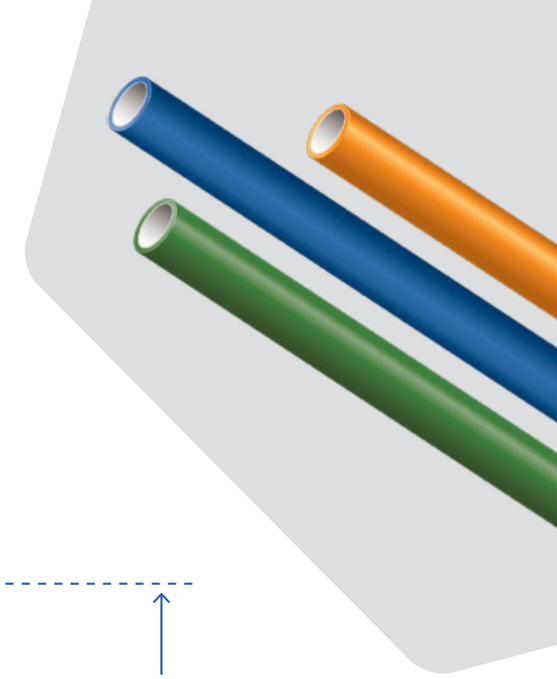
LEFT: *(3) Microducts, Standard FuturePath 7-way, FuturePath Hybrid 8-way*

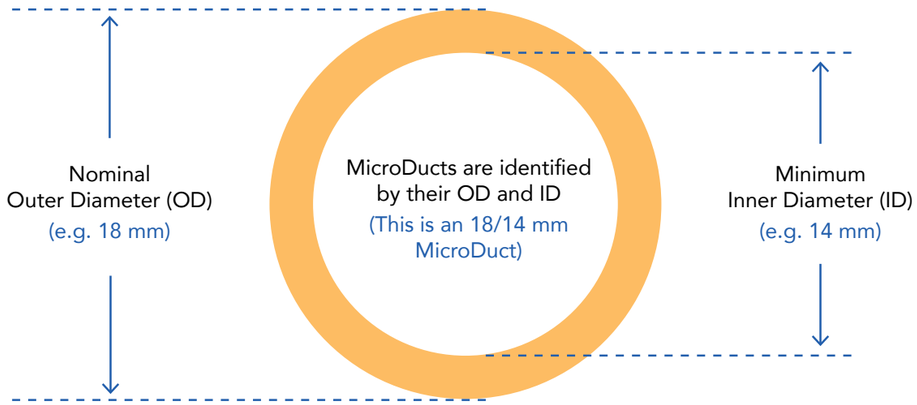
MicroDucts

MicroDucts are small pathways whose sizes are identified by their outer diameter (OD) and inner diameter (ID) with standard sizes from 5 mm to 18 mm outer diameter.

Standard MicroDuct Sizes are listed OD/ID mm (e.g. 18/14 mm).

A thicker MicroDuct wall (i.e., 2 mm) is recommended for direct-buried deployments, long directional drills or rocky terrains e.g. 14/10 mm instead of 10/8 mm.





The designation of DI or DB refers to the wall thickness:

DB = suitable for direct burial
DI = direct install into existing conduit

MicroDuct Size (OD/ID)	Inner Smooth	Inner Ribs	Locatable	Application
5/3.5 mm	✓			DI
7/3.5 mm	✓	✓	✓	DB
7/4 mm	✓	✓	✓	DB
8/5 mm		✓	✓	DB
10/6 mm		✓	✓	DB
10/8 mm		✓		DI
12/8 mm		✓	✓	DB
12/9 mm		✓		DI
12/10 mm		✓		DI
14/10 mm		✓	✓	DB
14/11.5 mm		✓		DI
16/12 mm		✓	✓	DB
16/13 mm		✓	✓	DI
18/14 mm		✓	✓	DB

FuturePath

FuturePath consists of bundled MicroDucts with a protective oversheath.

This allows for rapid deployment of fiber today with permanent pathways in place for future growth. The number and size of MicroDucts used in a FuturePath bundle is determined by fiber count and network routing requirements.

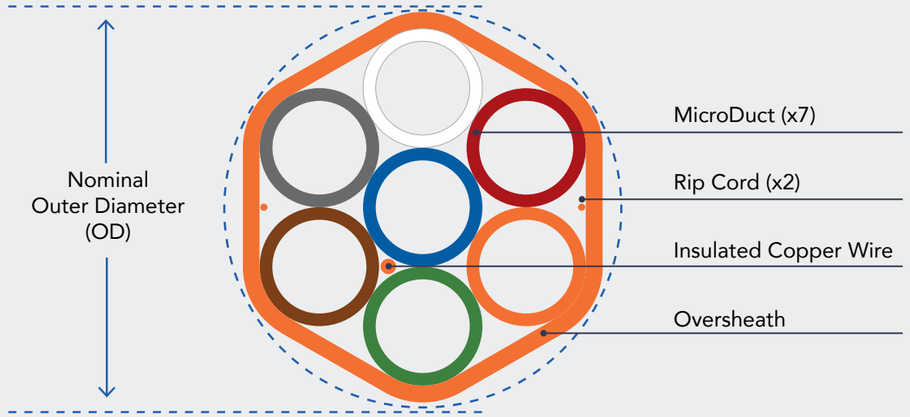
- Manufactured and Tested to ASTM F 2160 & IEC 60794-5 standards.

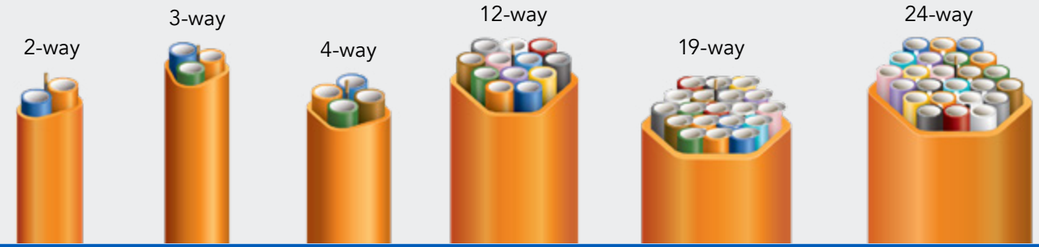
LSZH: Low Smoke Zero Halogen

A specialty product designed for use in applications where fire, smoke, toxic fumes, and acidic gas pose a health risk and possible damage to electronic equipment

Manufactured, Tested & Certified per stringent specifications:

- Product Classification as per EN13501-1
- Halogen Content/Acidity IEC60754-1 & 2
- Flame propagation/smoke release UL 1685-4
- Differentiated by its chalky white colour





FuturePath bundle configuration options vary with MicroDuct size.

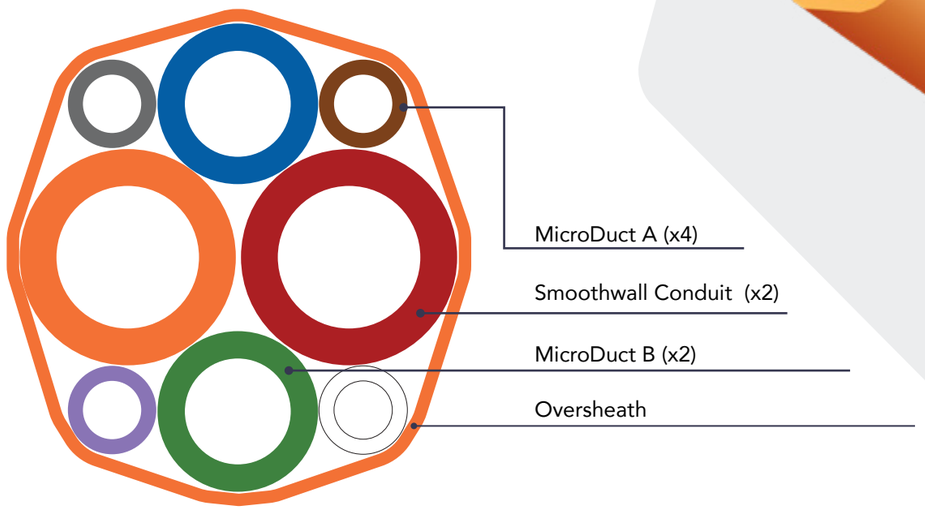
FuturePath Configuration	Size of MicroDucts														
	5/3.5 mm	7/3.5 mm	7/4mm	8/5 mm	8/6 mm	10/6 mm	10/8 mm	12/8 mm	12/9mm	12/10 mm	14/10 mm	14/11.5mm	16/12 mm	16/13mm	18/14 mm
2-Way	●●●●	●●●●	●●●●	●●●●	●●	●●●●	●●●●	●●●●	●●●●	●●●	●●●●	●●	●●●●	●●	●●●●
3-Way	●●●●	●●●●	●●●●	●●●●	●●	●●●●	●●●●	●●●●	●●●●	●●●	●●●●	●●	●●●●	●●	●●●●
4-Way	●●●●	●●●●	●●●●	●●●●	●●	●●●●	●●●●	●●●●	●●●●	●●●	●●●●	●●	●●●●	●●	●●●●
5-Way	●●●	●●●	●●●	●●●	●	●●●	●●●	●●●	●●●●	●●●	●●●●	●●	●●●●	●●	●●●●
6-Way	●●	●●	●●	●●		●●	●●	●●	●●	●●	●●	●	●●	●	●●
7-Way	●●●●	●●●●	●●●●	●●●●	●●	●●●●	●●●●	●●●●	●●●●	●●●	●●●●	●●●	●●●●	●●●●	●●●
8-Way	●●	●●●	●●	●●		●●	●●	●●	●●	●●	●●		●		●
10-Way	●●	●●●	●●	●●		●●	●●	●●	●●	●●	●●	●	●●	●	●●
12-Way	●●●●	●●●●	●●●●	●●●●	●●	●●●●	●●●●	●●●●	●●●●	●●●	●●●	●●	●●	●●	
14-Way	●●●	●●●	●●●	●●●	●	●●●	●●●	●●●	●●●	●●●	●●●	●●	●●	●●	
16-Way	●●	●●	●●	●●		●●	●●	●●	●●	●●					
18-Way	●	●	●	●		●	●								
19-Way	●●●●	●●●●	●●●●	●●●●	●●	●●●	●●●								
24-Way	●●●●	●●●●	●●●●	●●●●	●	●●●	●●●								
25-Way	●●	●●	●●	●		●	●								

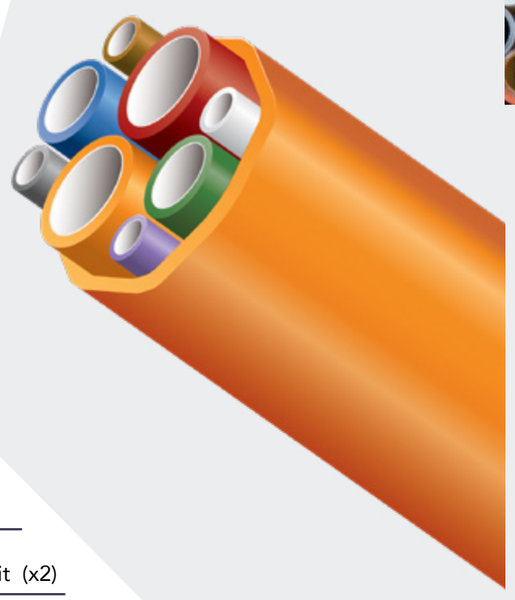
FuturePath: Available in Oman ● Available in India ●
FuturePath LSZH: Available in Oman ● Available in India ●

FuturePath Hybrid

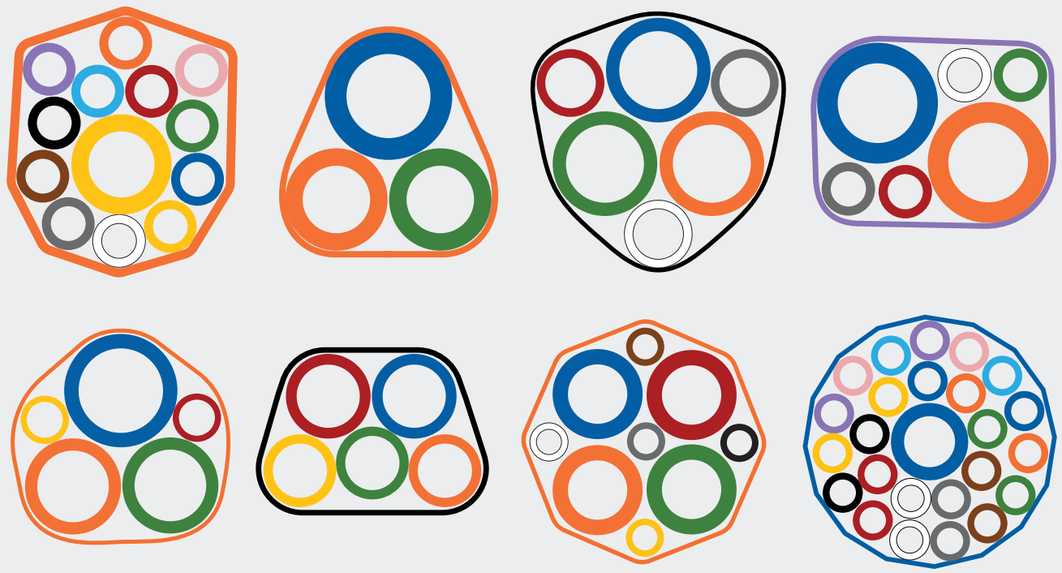
FuturePath Hybrid combines two or more different sizes of conduit and/or MicroDucts.

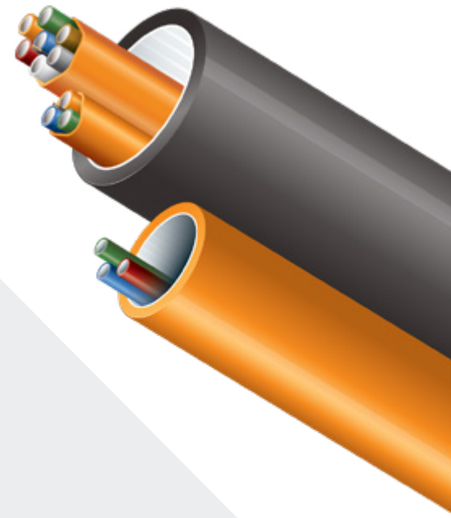
A perfect choice for customers who need to run micro cables and larger standard fiber cables at the same time, or would like to plan for future possibilities.





Some of our most popular configurations include:





Fill Ratio

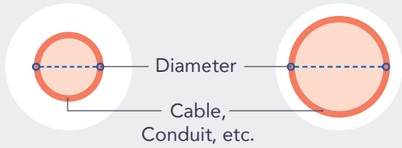
Fill ratio is a measurement of the space one or more objects occupies inside another object, like two loose MicroDucts or a single FuturePath inside an existing conduit.

It can indicate several useful things, including:

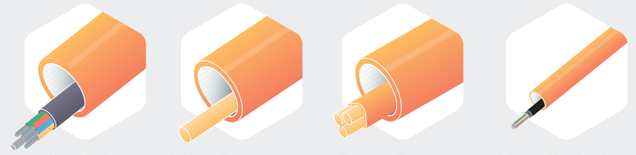
- ✓ Whether there's enough space to install safely and successfully
- ✓ The maximum number of new pathways that can fit in an existing conduit
- ✓ The maximum number of fibers that can be installed on a route

Single items use diameter and the fill ratio should be

BETWEEN 50-75%



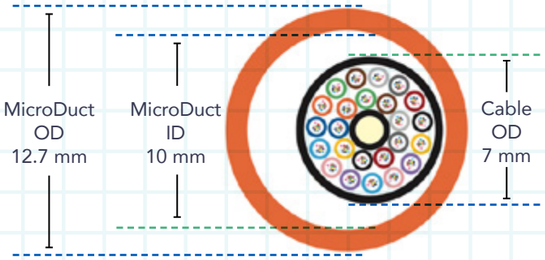
INSTALLATION SCENARIOS INCLUDE



Cable into Conduit | MicroDuct into Conduit | FuturePath into Conduit | MicroCable into MicroDuct

Sample Calculation (MicroCable into MicroDuct)

1. THE SCENARIO



2. THE FORMULA

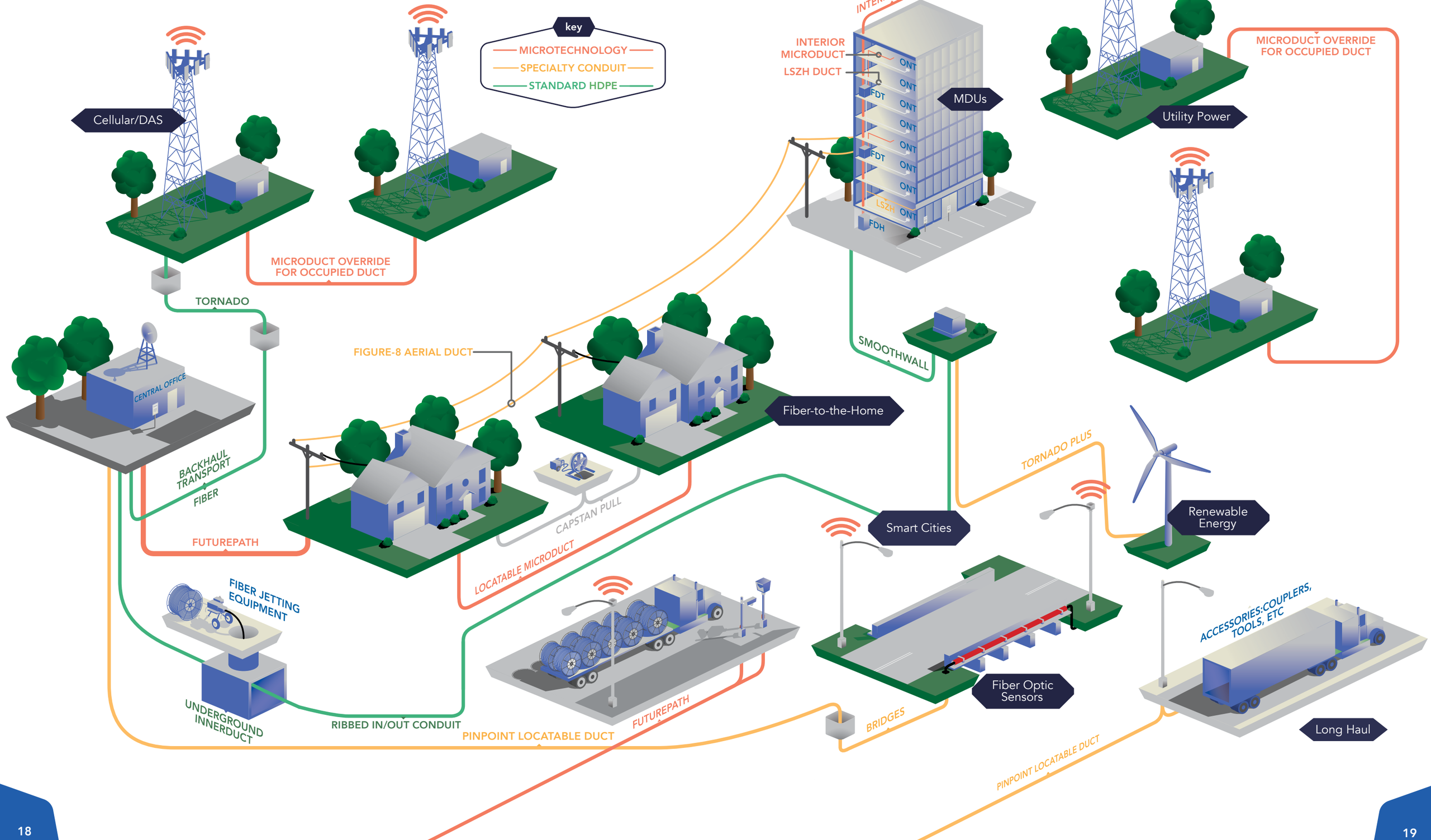
$$\left\{\frac{\text{Outer Diameter (OD) of Cable: 7 mm}}{\text{Inner Diameter (ID) of MicroDuct: 10 mm}}\right\} * 100$$

3. THE OUTCOME

In this scenario, the fill ratio is **70%**

Product Applications

Dura-Line is an ISO-9001 and TL 9000 registered manufacturer of conduits serving a variety of markets including: telecommunications, electrical, energy, and transportation. Our "Dura-Line Village" is designed to help you see the solutions our products provide in different applications. Dura-Line conduit delivers essential services throughout the world.



Product Applications

Applications demonstrate how conduit is used in everyday life throughout our modern world. Considered an integral part of the construction phase, the long-term return on investment on installing a flexible, easily scalable conduit network system is priceless. Multiple industries rely on clear, consistent, reliable communication technology. Learn more about how Dura-Line products are integral in providing connection.

Foundational Infrastructure

Dura-Line provides the essential foundational infrastructure for data communications around the globe. Our innovative products serve as solutions that address the key challenges of humanity. The more our society depends on high-speed, low-latency broadband, the more we all depend on conduit as the pathways to connect.

Smart City

A Smart City leverages technology to save energy and resources while improving efficiency and connectivity. By deploying smart cameras, sensors and monitors, city officials are able to increase citizen engagement and resident satisfaction. The foundation of a Smart City starts with fiber optic cable placed in conduit, which allows for scaling to accommodate new technologies in the future.

Long Haul

Long haul installation connects one central office, or data center, to another. Whether that's 10 miles or thousands of miles, using a conduit system means you only have to Dig Once. Just like in the transportation industry, long haul means Point A to Point B. From Seattle to Salt Lake, Atlanta to Knoxville, or New York to Chicago, a fiber optic network transports large amounts of data between destinations.

Renewable Energy

Whether building a large wind farm and using Cable-in-Conduit (CIC) to monitor the energy being supplemented to the grid, or supplying power to a solar farm, Dura-Line's conduit can help with communication and power needs. Modern technology is making "green" more affordable and efficient.

MDUs

Residents expect – and will pay a higher premium for – homes with continuous, seamless connectivity. Beyond water, electricity, and gas, now high-speed internet access is part of the base expectations. Limitless broadband capabilities are an essential utility for today's residents. Telecommuters demand speed and reliability and high-speed connectivity supports video-on-demand with little or no buffering.

Rails/Tunnels

Safety is a priority in subways, trains, light rail, and mass transit. Conduit protects the fiber that transmits data throughout these underground and above-ground locations. The concept of sharing common transportation space to the public advantage is still embraced. Technology has improved the amount of data that can be captured and relayed, keeping everyone safer as they travel.

Fiber Optic Sensing

Fiber optic sensing utilizes a fiber optic cable to monitor an asset. It provides continuous 24/7 monitoring over long distances. The fiber itself is the sensor, so there are literally thousands of sensing points along the route of whatever asset is being monitored. The fiber is passive, so no power supply is required along the asset. Temperature, strain, or vibration can be monitored with fiber optic sensing. The system can handle sensing and regular communication needs simultaneously.

Fiber to the Home

As residential consumers demand better and faster broadband with near instantaneous connection speeds, service providers are installing fiber optic networks at homes and offices. Using the next generation of technology, more and more of our world will be connected by fiber optics in the future as we outgrow the older copper-based infrastructures.

Cellular/DAS

The cell tower network uses a honeycomb design to cover large area sectors, or macro cells. This concentrated coverage area allows for valuable wireless service to be provided where users need it most.

5G

Network strategies for 5G maximize new radio frequency bands designated for communication, balancing and combining the use of high-band, mid-band, and low-band spectrum for optimal coverage, capacity, and quality performance. 5G promises to be a faster, smarter, seamless, and more responsive network that will change how we talk, text, and connect. To keep up with growing demand, the smartest telecommunication engineers are actually juggling sunsetting old technologies, maintaining current communication equipment while managing final build outs of 4G and simultaneously incorporating infrastructure for 5G.

Trending Topics

As technology advances, the Internet of Things (IoT) and the 4th Industrial Revolution will bring 50 billion new devices online and provide internet access to the rest of the world's population.

Check out the latest Trending Topics and other Applications at duraline.com/applications.

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DURA-LINE OMAN

www.duraline-mea.com

Phone: +968 2670 1648
Email: mea@duraline.com

Plot No. 5171, 5184, 5216
Phase V Suhar Industrial City
P.O Box 530
P.C 322 Suhar, Sultanate of Oman

DURA-LINE INDIA

www.duraline-india.com

Phone: +918087511106
Email: india.sales@duraline.com

Plot No. L-24/25
Phase - II A
Verna Industrial Estate,
Verna Goa, 403 722, India

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