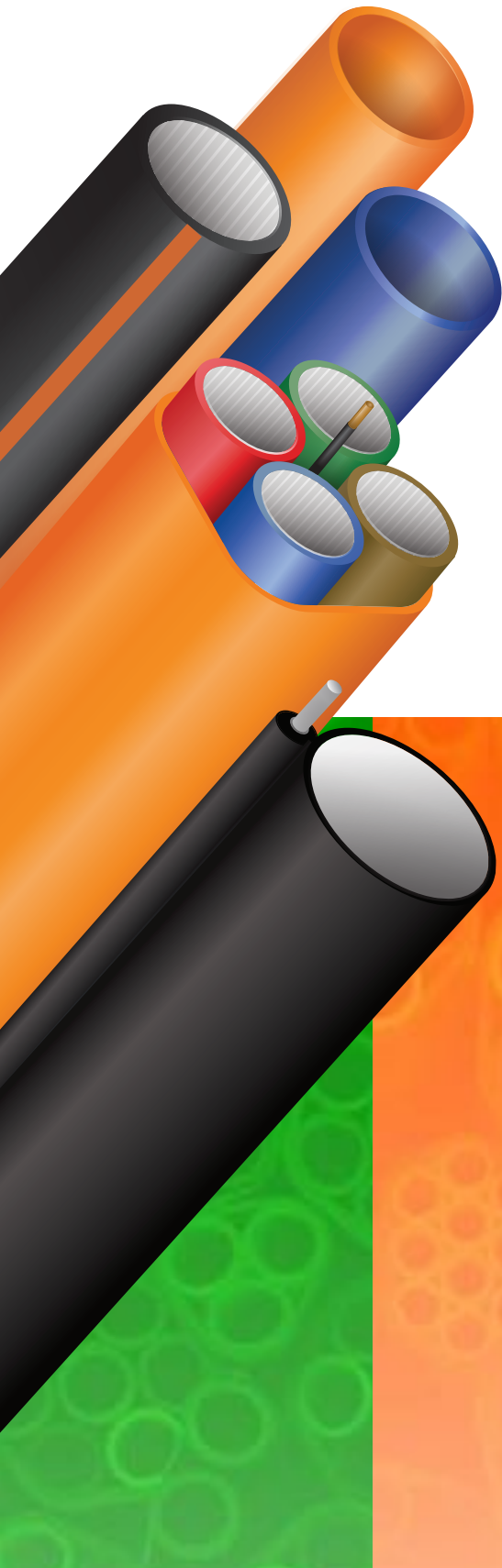




## REFERENCE:

# Product Standardization Bulletin for HDPE Duct, Innerduct & MicroDucts



DL.VERIZON.MAR2020.VER9.1







### All encompassing product offering

Dura-Line Corporation manufactures the widest range of innerducts & conduits in the industry. We strive to maintain our status as the industry leader by creating new products and technologies that best serve our customers needs. Dura-Line is pleased to offer Verizon our complete line of interducts and conduits, including speciality items such as:

- Silicore
- Figure-8 Aerial
- FuturePath
- MDU MicroDucts

As a global company, we have installed conduit in a wide variety of applications and can draw upon that experience as a resource for Verizon providing specialized installation solutions.

With diameters from 5mm to 6 inches, Dura-Line manufactures products that meet a broad range of needs and can also customize products for unique situations.

Our pledge is to manufacture quality products for Verizon and deliver them as requested..

### Each employee is committed to the goal of doing the job right the first time.

Verizon can be assured of the same quality products and commitment to service that Dura-Line has provided consistently during our partnership. Our ISO 9001 Quality and TL 9000 certification rating ensures you the manufacturing consistency that you deserve. We are the first conduit manufacturer to achieve this quality level.

Dura-Line Corporation's commitment to this process has not changed over the years. Each employee is dedicated to provide our customers with the very best in products and services. Dura-Line's doors have always been open to customers for quality reviews and audits of our manufacturing and customer service operation.

Dura-Line Corporation's very existence as a company and a partner to Verizon in business, depends on the quality, consistency, service and dependability of the products we sell. We take these processes very seriously.

# SmoothWall

In many common field applications, Dura-Line's Smoothwall conduits provide high resistance to natural or mechanical damage.

Dura-Line Corporation's Smoothwall innerduct has proven effective time and time again in a variety of applications. From placing cable beneath a busy city street to more difficult underwater cable placement, Dura-Line's Smoothwall will perform.

Made from tough, High Density Polyethylene (HDPE) as specified by our customers, Dura-Line's Smoothwall innerduct is very flexible and can be worked easily in tight areas. The excellent low temperature properties of polyethylene allows your work to continue in the coldest weather conditions.

## Product Info

**Direct Buried Conduits** True SDR 11 and True SDR 9 can be installed directly in Underground applications, trench, plow, or horizontal drill.

**Underground Conduits** True SDR 13.5 and True SDR 11.5 and can be installed inside existing pathways underground.

## Size Range

1 to 6 inches

## Colors



## Options

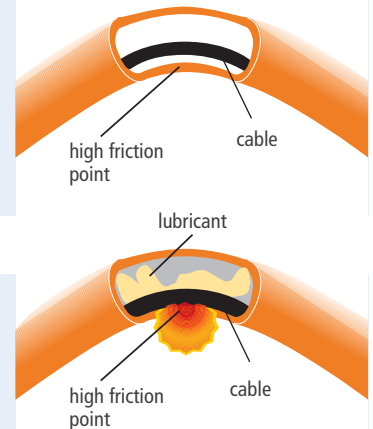
Smooth interior, UV Inhibitors, Bull-Line pull tape

## Features

- SILICORE™ super slick permanent lining (an added value)
- EVEN-LOAD® preinstalled pull line (an added value)
- 3% extra pull line installed evenly throughout the duct
- Sequential footage markings
- Multiple innerduct per reel
- Aerial with special UV inhibitors and antioxidants for longer life

## Silicore

- Super slick ribbed permanent lining
- Standard feature on all standard conduit – white in color
- Co-extruded during manufacturing
- Easier and faster cable installations
- Reduced coefficient of friction








SMOOTHWALL TECH SPECS							
PRODUCT	AVG ID (IN)	NOM OD (IN)	MIN WALL (IN)	WALL TOLERANCE (IN)	BEND RADIUS SUP* (IN)	BEND RADIUS UNSUP* (IN)	MAX PULLING TENSION† (LBS)
1" True SDR 9 Smoothwall Silicore	1.024	1.303	0.117	0.020	13	26	1,830
1" True SDR 11.5 Smoothwall Silicore	0.955	1.174	0.087	0.020	13	26	1,315
1.25" True SDR 9 Smoothwall Silicore	1.230	1.530	0.138	0.020	17	34	2,065
1.25" True SDR 11.5 Smoothwall Silicore	1.224	1.488	0.109	0.020	17	34	1,790
1.25" Self-Support Figure-8 True SDR 9 Silicore (6.6m)	1.286	1.556	0.125	0.020	31	52	6,650 with strand
1.5" True SDR 11 Smoothwall Silicore	1.500	1.890	0.160	0.020	19	38	3,806
2" SDR 9 Smoothwall Silicore	1.815	2.375	0.264	0.032	24	48	4,200
2" True SDR 11 Smoothwall Silicore	1.955	2.348	0.182	0.020	24	48	4,870
2" True SDR 13.5 Smoothwall Silicore	2.000	2.348	0.154	0.020	24	48	4,120
2.5" SDR 11 Smoothwall Silicore	2.322	2.875	0.261	0.031	29	58	6,440
3" SDR 11 Smoothwall Silicore	2.826	3.500	0.318	0.038	39	78	10,884
4" SDR 9 Smoothwall	3.440	4.500	0.500	0.060	50	100	15,080
4" SDR 11 Smoothwall	3.633	4.500	0.409	0.049	50	100	17,992
6" SDR 13.5 Smoothwall	5.584	6.625	0.491	0.059	73	146	22,697




















\*Unsupported Bend Radius guidelines should be followed during the installation process. The Supported Bend Radius are post-installation measurements.

†Recommend not to exceed 80% of max pulling tension

\*These specifications are based the SDR, Standard Inside Dimension Ratio. If you have been utilizing duct with the SDR Standard Dimension Ratio, you will notice the OD of the SDR product is a bit smaller. If an SDR products needs to be mated with an SDR product, a special transition coupler will be required. However, there should be no effect to the installation as long as standard fill ratios are maintained.

SMOOTHWALL ORDERING INFO								
VERIZON SSI #	VERIZON MMID#	DURA-LINE PART #	MATERIAL DESCRIPTION	COLOR	EMPTY/ TAPE	FT/ REEL	REEL SIZE*	
1"	11012377	10796144	10005429	1" True SIDR 9 Smoothwall Silicore		Empty	8,500'	83x45
	11012375	10796149	10005430	1" True SIDR 9 Smoothwall Silicore		Tape	8,500'	83x45
	11012372	10796141	10005426	1" True SIDR 11.5 Smoothwall Silicore		Empty	8,500'	83x45
	11012370	10796162	10005427	1" True SIDR 11.5 Smoothwall Silicore		Tape	8,500'	83x45
1.25"	11012362	10796157	10005584	1.25" True SIDR 9 Smoothwall Silicore		Empty	6,000'	83x45
	11012357	10796184	10005585	1.25" True SIDR 9 Smoothwall Silicore		Tape	6,000'	83x45
	11012361	10796183	10005579	1.25" True SIDR 9 Smoothwall Silicore		Empty	6,000'	83x45
	11012356	10796165	10005580	1.25" True SIDR 9 Smoothwall Silicore		Tape	6,000'	83x45
	11012360	10796177	10005586	1.25" True SIDR 9 Smoothwall Silicore		Empty	6,000'	83x45
	11012355	10796185	10005587	1.25" True SIDR 9 Smoothwall Silicore		Tape	6,000'	83x45
	11012359	10796166	10005581	1.25" True SIDR 9 Smoothwall Silicore		Empty	6,000'	83x45
	11012354	10796176	10005583	1.25" True SIDR 9 Smoothwall Silicore		Tape	6,000'	83x45
	11012348	10796111	10005571	1.25" True SIDR 11.5 Smoothwall Silicore		Empty	6,000'	83x45
	11012343	10796145	10005572	1.25" True SIDR 11.5 Smoothwall Silicore		Tape	6,000'	83x45
	11012347	10796091	10005566	1.25" True SIDR 11.5 Smoothwall Silicore		Empty	6,000'	83x45
	11012342	10796109	10005567	1.25" True SIDR 11.5 Smoothwall Silicore		Tape	6,000'	83x45
	11012346	10796150	10005573	1.25" True SIDR 11.5 Smoothwall Silicore		Empty	6,000'	83x45
	11325971	10796174	10005574	1.25" True SIDR 11.5 Smoothwall Silicore		Tape	6,000'	83x45
	11012345	10796148	10005568	1.25" True SIDR 11.5 Smoothwall Silicore		Empty	6,000'	83x45
	11012340	10796153	10005570	1.25" True SIDR 11.5 Smoothwall Silicore		Tape	6,000'	83x45

\*Reel size may vary, longer reel lengths available

SMOOTHWALL ORDERING INFO								
	VERIZON SSI #	VERIZON MMID#	DURA-LINE PART #	MATERIAL DESCRIPTION	COLOR	EMPTY/ TAPE	FT/ REEL	REEL SIZE*
1.5"	11016664	10796187	10005619	1.5" True SDR 11 Smoothwall Silicore		Empty	4,500'	90x45
	11012324	10796167	10005620	1.5" True SDR 11 Smoothwall Silicore		Tape	4,500'	90x45
2"	11012323†	10796120	10000777	2" True SDR 11 Smoothwall Silicore		Empty	2,000'	83x45 or divided†
	11012322	10796188	10005721	2" True SDR 11 Smoothwall Silicore		Tape	2,000'	83x45
	call for quote†	10796224	10011445	2" True SDR 11 Smoothwall Silicore		Empty	3,500'	96x45 or divided†
	11354146	10823092	10012103	2" True SDR 11 Smoothwall Silicore		Tape	3,500'	96x45
	11012321	10796180	10005722	2" True SDR 13.5 Smoothwall Silicore		Empty	2,000'	83x45
	11012320	10796189	10005724	2" True SDR 13.5 Smoothwall Silicore		Tape	2,000'	83x45
	call for quote	10857966	10013321	2" SDR 9 Smoothwall Silicore		Empty	2,000'	83x45
	call for quote	10859709	10013322	2" SDR 9 Smoothwall Silicore		Empty	3,500'	96x45
	call for quote	10796262	10011511	2.5" SDR 11 Smoothwall Silicore		Empty	1,800'	96x45
	call for quote	10796244	10011512	2.5" SDR 11 Smoothwall Silicore		Tape	1,800'	96x45
3"	11012319	10796274	10012433	3" SDR 11 Smoothwall Silicore		Empty	950'	96x45
	11012318	10796196	10006322	3" SDR 11 Smoothwall Silicore		Tape	950'	96x45
4"	call for quote	10856808	10013291	4" SDR 9 Smoothwall		Empty	525'	96x45
	call for quote	10856820	10013292	4" SDR 9 Smoothwall		Empty	750'	102x45
	87291527	10796151	10005783	4" SDR 11 Smoothwall		Empty	525'	96x45
	11012317	10796198	10010560	4" SDR 11 Smoothwall		Tape	525'	96x45
6"	11354147	10823055	10012108	6" SDR 13.5 Smoothwall		Empty	450'	120x45

\*Reel size may vary, longer reel lengths available

† Divided multi-duct reels available, see page 9

# Electrical Smoothwall

- EVEN-LOAD® preinstalled pull line (an added value) 3% extra pull line installed evenly throughout the duct
- Sequential footage markings
- ETL Listed to UL Specifications

## ELECTRICAL TECH SPECS

PRODUCT	AVG ID (IN)	NOM OD (IN)	MIN WALL (IN)	WALL TOLERANCE (IN)	BEND RADIUS SUP* (IN)	BEND RADIUS UNSUP* (IN)	MAX PULLING TENSION† (LBS)
2" SCH 40 Smoothwall Silicore	2.047	2.375	0.154	0.020	24	48	2,579
2" SCH 80 Smoothwall Silicore	1.913	2.375	0.218	0.026	24	48	2,545
3" SCH 40 Smoothwall Silicore	3.042	3.500	0.216	0.026	39	78	5,348
3" SCH 80 Smoothwall Silicore	2.864	3.500	0.300	0.036	39	78	7,238

\*Unsupported Bend Radius guidelines should be followed during the installation process. The Supported Bend Radius are post-installation measurements.

†Recommend not to exceed 80% of max pulling tension

## ELECTRICAL ORDERING INFO

	VERIZON SSI #	VERIZON MMID#	DURA-LINE PART #	MATERIAL DESCRIPTION	COLOR	EMPTY/TAPE	FT/REEL	REEL SIZE*
2"	call for quote	10859456	10013432	2" SCHE 40 Smoothwall Silicore	UV	Empty	3,500'	96x45
	call for quote	10859451	10013433	2" SCHE 80 Smoothwall Silicore	UV	Empty	3,500'	96x45
3"	call for quote	10858846	10013403	3" SCHE 40 Smoothwall Silicore	UV	Empty	950'	96x45
	call for quote	10858865	10013405	3" SCHE 80 Smoothwall Silicore	UV	Empty	950'	96x45

\*Reel size may vary, longer reel lengths available



## Divided Reels

### Smooth duct on divided reels

Dura-Line can provide up to three conduits wrapped simultaneously on the same reel. If multiple conduits need to be placed at one time, it's the easiest way to handle a single reel onsite. Up to three conduits can be placed from one reel versus multiple reels with individual conduits. All conduits must be pulled of the reel at the same time.

### SMOOTHWALL DIVIDED REELS ORDERING INFO

	VERIZON SSI #	VERIZON MMID#	DURA-LINE PART #	MATERIAL DESCRIPTION	COLOR	EMPTY/ TAPE	FT/REEL	DIVIDED REEL SIZE
1"	11012373	10796138	10013235	1" True SDR 9 Smoothwall Silicore 3-Way Divided Reel		Empty	3,000' per color	83x45
	pending	10856778	10013289	1" True SDR 11.5 Smoothwall Silicore 2-Way Divided Reel		Empty	4,500' per color	83x45
	11012368	10796088	10001822	1" True SDR 11.5 Smoothwall Silicore 3-Way Divided Reel		Empty	3,000' per color	83x45
1.25"	11283707	10796200	10009459	1.25" True SDR 9 Smoothwall Silicore 2-Way Divided Reel		Empty	3,000' per color	83x45
	11283706	10796159	10006450	1.25" True SDR 9 Smoothwall Silicore 2-Way Divided Reel		Tape	3,000' per color	83x45
	11283704	10796212	10006451	1.25" True SDR 9 Smoothwall Silicore 3-Way Divided Reel		Empty	1,800' per color	83x45
	11283705	10796131	10001460	1.25" True SDR 9 Smoothwall Silicore 3-Way Divided Reel		Tape	1,800' per color	83x45
	11283703	10796130	10001172	1.25" True SDR 11.5 Smoothwall Silicore 2-Way Divided Reel		Empty	3,000' per color	83x45
	11283702	10796119	10001173	1.25" True SDR 11.5 Smoothwall Silicore 2-Way Divided Reel		Tape	3,000' per color	83x45
	11283701	10796233	10010559	1.25" True SDR 11.5 Smoothwall Silicore 3-Way Divided Reel		Empty	1,800' per color	83x45
	11283700	10796107	10001456	1.25" True SDR 11.5 Smoothwall Silicore 3-Way Divided Reel		Tape	1,800' per color	83x45
	11371406	10859703	10013354	1.25" True SDR 11.5 Smoothwall & 1.5" True SDR 11 Smoothwall 2-way Divided Reel		Empty	2,200' per color	90x45
	11371407	10859715	10013355	1.25" True SDR 11.5 Smoothwall & 1.5" True SDR 11 Smoothwall 2-way Divided Reel		Tape	2,200' per color	90x45
	11371483	pending	10013366	1.5" True SDR 11 Smoothwall Silicore 2-Way Divided Reel		Empty	2,300' per color	90x45
1.5"	11371482	10859465	10013367	1.5" True SDR 11 Smoothwall Silicore 2-Way Divided Reel		Tape	2,300' per color	90x45
	pending	10857967	10013359	(2) 2" True SDR 11 Smoothwall Silicore & (1) FuturePath 7-way 18/14mm 3-Way Divided Reel		Empty	1,250' per duct	114 x 45



# Corrugated

Dura-Line Corrugated duct provides superior flexibility which is ideal for congested areas, small enclosures or vaults where maneuvering is difficult.

## Product Info

Custom sizes, colors, lengths available

## Size Range

1.25"

## Colors



## Features

- EVEN-LOAD® preinstalled pull line (an added value)  
3% extra pull line installed evenly throughout the duct
- Sequential footage markings



## CORRUGATED TECH SPECS

NOMINAL SIZE	OD (IN.)	WALL THICK. (MIN. IN.)	WALL THICK. (MAX. IN.)	ID REF.	SAFE WORKING PULL STRENGTH†	WEIGHT LB/FT	BEND RADIUS	BRITTLINESS TEMP.
1.25"	1.57 ± 0.020	0.045	0.065	1.440	500 lbs	0.125	16"	-75°C

†Safe working pull strength is calculated at 80% of tensile or breaking strength

## CORRUGATED ORDERING INFO

	VERIZON SSI#	VERIZON MMID#	DURA-LINE PART #	MATERIAL DESCRIPTION	COLOR	EMPTY/TAPE	FOOTAGE	REEL SIZE*
1.25"	11012367	10796156	10005500	1.25" Corrugated HDPE		Empty	250'	Coil
	11012366	10796271	20001925	1.25" Corrugated Split HDPE		Empty	250'	Coil
	11012364	10796172	10005504	1.25" Corrugated for Aerial Use	UV	Empty	250'	Coil
	11012365	10796249	20001926	1.25" Corrugated Split for Aerial Use	UV	Empty	250'	Coil

# PinPoint

PinPoint is a proven, reliable method for locating your buried duct. The PinPoint wire is encased in Polyethylene providing a corrosion resistant conductor, ideal for plow, open trench or directional bore installations. No special tools are required to couple the duct and the PinPoint wire – current approved coupling methods can be utilized.

## Product Info

18 awg copper clad steel 30.041 ohm/1,000' ft 68 degrees F

## Size Range

1.25" and 2"

## Colors



## Features

- Available with and without pre-installed 1,800 lb pull tape
- SILICORE™ super slick, permanent lining option available
- EVEN-LOAD™ option available



## PINPOINT TECHNICAL AND PERFORMANCE SPECS

NORMAL DUCT SIZE	CU-CLAD WIRE SIZE AWG	MIN. INSIDE DIAMETER	AVG. OUTSIDE DIAMETER	MINIMUM WALL	MAXIMUM WALL	BEND RADIUS	SAFE WORKING PULL STRENGTH†	AVG. WEIGHT LBS/FT
1.25"	18	1.313"	1.660 ± 0.006	0.151"	0.171"	17"	1,962 lbs	0.312
2"	18	1.885"	2.375 ± 0.006	0.216"	0.242"	24"	4,008 lbs	0.635

†Safe working pull strength is calculated at 80% of tensile or breaking strength

## PINPOINT ORDERING INFO

	VERIZON SSI#	VERIZON MMID#	DURA-LINE PART #	MATERIAL DESCRIPTION	COLOR	EMPTY/ TAPE	FOOTAGE	REEL SIZE*
1.25"	11370528	pending	10013306	1.25" True SDR 11.5 Pinpoint Smoothwall		Empty	6,000'	83x45
	11370527	pending	10013307	1.25" True SDR 11.5 Pinpoint Smoothwall		Tape	6,000'	83x45
2"	11370524	pending	10013310	2" True SDR 11 Pinpoint Smoothwall		Empty	2,000'	83x45
	11370523	pending	10013311	2" True SDR 11 Pinpoint Smoothwall		Tape	2,000'	83x45
	11370526	pending	10013308	2" True SDR 13.5 Pinpoint Smoothwall		Empty	2,000'	83x45
	11370525	pending	10013309	2" True SDR 13.5 Pinpoint Smoothwall		Tape	2,000'	83x45
KIT	11370935	pending	20001526	Pinpoint Splicing Kit	N/A	N/A	N/A	N/A

\*Reel size may vary, longer reel lengths available

# Smoothwall Riser

Smoothwall Riser can be used in MDU or office building applications in place of corrugated products. This product comes with our Silicore™ super slick permanent lining to help make the cable installation easier & faster without using messy wet lubes inside of buildings.

## Product Info

Manufactured with fire retardant materials to comply with UL-2024

## Size Range

1.25" and 2"

## Colors



## Features

- Riser Rated:  
ETL Listed to UL 2024 & CSA C22.2 #262-04  
and UL-94 V-2 & CSA FT4
- SILICORE™ super slick permanent lining
- Easier to pull through than traditional corrugated ducts
- 1,800 pound pull tapes pre-installed
- Tighter bend radius than traditional OSP smoothwall products
- Corrugated Riser available – see page 10



## SMOOTHWALL RISER TECH SPECS

PRODUCT	OD (IN)	ID (IN)	WALL (IN)
1.25" Riser Smoothwall	1.488	1.247	0.103 min + 0.015
2" Riser Smoothwall	2.348	2.05	0.128 min + 0.020

## SMOOTHWALL RISER ORDERING INFO

	VERIZON SSI#	VERIZON MMID#	DURA-LINE PART #	MATERIAL DESCRIPTION	COLOR	EMPTY/TAPE	FOOTAGE	REEL SIZE*
1.25"	11068606	10796110	10005341	1.25" Durathane Riser Smoothwall		Tape	500'	Coil
	11068605	10796182	10005342	1.25" Durathane Riser Smoothwall		Tape	500'	Coil
2"	11068604	10796209	10009658	2" Durathane Riser Smoothwall		Tape	250'	Coil
	11068603	10796218	10010567	2" Durathane Riser Smoothwall		Tape	250'	Coil

\*Reel size may vary, longer reel lengths available

# Aerial Duct

Aerial duct is a high tensile strength HDPE duct which can be lashed to either an existing or new strand or even over-lashed on top of an existing cable. Our Aerial duct is manufactured from HDPE materials and contains finely dispersed carbon black and antioxidants for UV and thermal protection.

The coextruded SILICORE™ solid polymer lining creates a permanent pre-lubricated pathway for easy fiber optic or coaxial cable placement and upgrades.

## Product Info

Made from HDPE materials, containing finely dispersed carbon

## Size Range

1.25", 1.5", 2"

## Color

UV

## Features

- EVEN-LOAD™ preinstalled optional 1,800 pound Polyester pull line (an added value) 3% extra pull line installed evenly throughout the duct
- Sequential footage markings
- Long life UV formula
- SILICORE™ super slick, permanent lining option available



## AERIAL TECH SPECS

NOMINAL SIZE	AVG ID (IN)	NOM OD (IN)	MIN WALL (IN)	WALL TOLERANCE (IN)	BEND RADIUS SUP* (IN)	BEND RADIUS UNSUPP* (IN)	MAX PULLING TENSION† (LBS)
1.25"	1.224	1.488	0.109	0.020	17	34	1,790
1.5"	1.500	1.890	0.160	0.020	19	38	3,806
2"	2.002	2.375	0.176	0.026	24	48	2,917

\*Unsupported Bend Radius guidelines should be followed during the installation process. The Supported Bend Radius are post-installation measurements.

†Recommend not to exceed 80% of max pulling tension

## AERIAL DUCT ORDERING INFO

	VERIZON SSI #	VERIZON MMID#	DURA-LINE PART #	MATERIAL DESCRIPTION	COLOR	EMPTY/TAPE	FT/REEL	REEL SIZE
1.25"	11012334	10796173	10005575	1.25" True SDR 11.5 Smoothwall Silicore	UV	Empty	6,000'	83x45
	11012333	10796175	10005576	1.25" True SDR 11.5 Smoothwall Silicore	UV	Tape	6,000'	83x45
1.5"	11016663	10796168	10005621	1.5" True SDR 11 Smoothwall Silicore	UV	Empty	4,500'	90x45
	11016662	10796178	10005622	1.5" True SDR 11 Smoothwall Silicore	UV	Tape	4,500'	90x45
2"	11371408	10857914	10013356	2" True SDR 13.5 Smoothwall Silicore	UV	Empty	2,000'	83x45
	11371409	10857896	10013357	2" True SDR 13.5 Smoothwall Silicore	UV	Tape	2,000'	83x45

\*Reel size may vary, longer reel lengths available

# Figure-8 Aerial

Figure-8 Aerial (self support duct) is a high tensile strength HDPE duct with Figure-8 construction incorporating an extra high strength (EHS) flooded galvanized support strand for easy one step aerial placement of both duct and strand. Figure-8 duct is manufactured from HDPE materials and contains finely dispersed carbon black and antioxidants for UV and thermal protection.

The coextruded SILICORE™ solid polymer lining creates a permanent pre-lubricated pathway for easy fiber optic or copper cable placement and upgrades.

## Product Info

EHS (Extra High Strength) flooded galvanized support strand for one-step aerial placement

## Size Range

1.25"

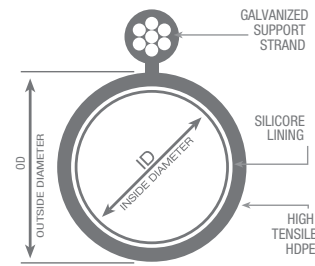
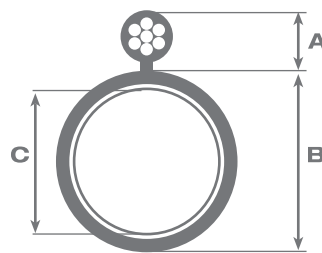
## Color

UV

## Features



- SILICORE™ super slick permanent lining (an added value)
- EVEN-LOAD™ preinstalled 1800 pound Polyester pull line (an added value) 3% extra pull line installed evenly throughout the duct
- Sequential footage markings
- Long life UV formula
- One step placement of duct and support strand



## FIGURE 8 AERIAL TECH SPECS

STRAND	SIZE	SDR	A	B (AVG)	C (AVG)
1/4" EHS galv.	1.25"	True SDR 9	0.540	1.556	1.286
STRAND CLASS A FLOODED		BREAKING PULL STRENGTH†		TYPICAL STRAND LENGTHS	
1/4" EHS galv.		6,650 lbs		225' (67 meters)	

†Breaking pull strength is calculated at 80% of tensile or breaking strength

## FIGURE 8 ORDERING INFO

	VERIZON SSI #	VERIZON MMID#	DURA-LINE PART #	MATERIAL DESCRIPTION	COLOR	EMPTY/ TAPE	FT/REEL	REEL SIZE
1.25"	11012330	10796154	10005468	1.25" Self Support Figure-8 True SDR 9 Smoothwall Silicore (Aerial), with 6.6M Strand	UV	Empty	5,000'	83x45
	11012332	10796155	10005471	1.25" Self Support Figure-8 True SDR 9 Smoothwall Silicore (Aerial), with 6.6M Strand	UV	Tape	5,000'	83x45
	11012327	10796219	10010561	1.25" Self Support Figure-8 True SDR 9 Smoothwall Silicore (Aerial), with 6.6M Strand	UV	Empty	2,500'	83x45
	11012328	10796164	10005470	1.25" Self Support Figure-8 True SDR 9 Smoothwall Silicore (Aerial), with 6.6M Strand	UV	Tape	2,500'	83x45
	11012697	10796242	20000398	1.25" Aerial Expansion Sleeve 72" long	N/A	N/A	N/A	N/A





\*Reel size may vary, longer reel lengths available





# Corrugated Plenum/Riser

Both Plenum & Riser rated fire retardant ducts designed to protect new and existing cables and facilitate future cable installation or replacement. When tested to UL910 (Plenum) & UL-1666 (Riser) for fire resistant as defined by the National Fire Protection Association when rating cables as suitable for use in ducts, plenum spaces, riser and other areas used for environmental air.

Product Info	Riser: UL Listed designed for riser applications per NEC articles 770 & 800 & UL Standard 2024 Plenum: Listed to UL Standards 910, ideally suited for plenum applications		
Size Range	1" 1.25" 1.5" 2"	Color	   
Features	<ul style="list-style-type: none"><li>ETL Listed to UL Specs</li><li>Sequential footage markings</li><li>Flexible, lightweight and easier to install than metal conduit</li></ul>		

PLENUM & RISER SPECS							
SIZE		NOM. OD TOL. (IN)	ID REF. (IN)	WT/FT (LBS)	BEND RADIUS SUP* (IN)	BEND RADIUS UNSUP* (IN)	MAX PULLING TENSTION† (LBS)
PLENUM	1"	1.385 ± 0.020	1.165	0.125	22	44	500
	1.25"	1.570 ± 0.020	1.350	0.130	22	44	500
	1.5"	1.824 ± 0.020	1.600	0.149	22	44	500
	2"	2.349 ± 0.020	2.0	.24	22	44	500
RISER	1"	1.385 ± 0.020	1.085	0.133	22	44	500
	1.25"	1.570 ± 0.020	1.200	0.135	22	44	500
	1.5"	1.824 ± 0.020	1.270	0.182	22	44	500
	2"	2.349 ± 0.020	2.0	.24	22	-	500

\*Unsupported Bend Radius guidelines should be followed during the installation process. The Supported Bend Radius are post-installation measurements.  
†Recommend not to exceed 80% of max pulling tension

PLENUM & RISER ORDERING INFO									
VERIZON SSI#			VERIZON MMID#	DURA-LINE PART #	MATERIAL DESCRIPTION		EMPTY/ TAPE	FOOTAGE	REEL SIZE*
PLENUM	1"	11082303	10796205	10006734	1" Plenum Corrugated		Empty	500'	Coil
		11082304	10796163	10005438	1" Plenum Corrugated		Tape	500'	Coil
	1.25"	11034671	10796231	20002118	1.25" Plenum Split Corrugated		Empty	500'	Coil
		11012363	10796186	10005592	1.25" Plenum Corrugated		Tape	500'	Coil
	1.5"	11034672	10796143	20004797	1.5" Plenum Split Corrugated		Empty	150'	Coil
		11034673	10796179	10005623	1.5" Plenum Corrugated		Tape	150'	Coil
RISER	2"	11058728	10796158	10005726	2" Plenum Corrugated		Tape	100'	Coil
	1.25"	11099758	10796147	10005343	1.25" Riser Corrugated		Tape	500'	Coil
		11099757	10796146	10005344	1.25" Riser Corrugated		Tape	500'	Coil
	1.5"	11099754	10796090	10005345	1.5" Riser Corrugated		Tape	250'	Coil
		11099753	10796204	10006730	1.5" Riser Corrugated		Tape	250'	Coil
	2"	11099755	10796222	10006731	2" Riser Corrugated		Tape	250'	Coil

# HDPE MicroDucts

Using MicroDucts from Dura-Line is a better way to utilize that Empty space, both today and tomorrow. It allows you to expand your fiber network as you bring on new customers. It enables you to increase bandwidth as your needs increase. And, it allows you to do it easily, without adding extra fibers that might never be used. MicroTechnology saves you time and money, allowing for economical growth within your communications network.

The coextruded SILICORE™ solid polymer lining creates a permanent pre-lubricated pathway for easy fiber optic or copper cable placement and upgrades.

## Product Info

HDPE MicroDucts with Super SILICORE™ permanent, co-extruded lining for fast, and long fiber cable installs. Can install in Empty Ducts, Override in Existing Occupied Duct, or Direct Bury

## Size Range

(OD/ID): 18/14 mm 12.7/10 mm 8.5/6 mm

## Color/Stripe



## Features

- Utilize space in an occupied duct
- Revitalize existing networks
- Substantially reduce construction costs & deployment time
- SuperSILICORE super slick permanent lining

**SUPER  
SILICORE**

## HDPE MICRODUCTS SPECS

SIZE	NOM OD (MM/IN)	MIN ID (MM/IN)	WEIGHT (#/FT)	BEND RADIUS SUP* (IN)	BEND RADIUS UNSUP* (IN)	SAFE WORKING PULL STRENGTH†
18/14	18.01/0.0709	13.6/0.535	0.066	11	18	352 lbs
12.7/10	12.7/0.500	9.8/0.39	0.032	8	13	167 lbs
8.5/6	8.51/0.335	5.9/0.23	0.018	5	8	96 lbs

\*Unsupported Bend Radius guidelines should be followed during the installation process. The Supported Bend Radius are post-installation measurements.

†Safe working pull strength is calculated at 80% of tensile or breaking strength

## HDPE MICRODUCTS ORDERING INFO

	VERIZON SSI#	VERIZON MMID#	DURA-LINE PART #	MATERIAL DESCRIPTION		EMPTY/TAPE	FT/REEL	REEL SIZE*
18/14	call for quote	10796265	10011592	18/14mm MicroDuct Smooth Out-Ribbed In Silicore		Empty	5,000'	42x45
	call for quote	10796267	10011593	18/14mm MicroDuct Smooth Out-Ribbed In Silicore		Empty	5,000'	42x45
	call for quote	10796264	10011591	18/14mm MicroDuct Smooth Out-Ribbed In Silicore		Empty	5,000'	42x45
	call for quote	10796243	10011596	18/14mm MicroDuct Smooth Out-Ribbed In Silicore		Empty	5,000'	42x45
12.7/10	11350854	10823051	10012060	12.7/10mm MicroDuct Smooth Out-Ribbed In Silicore		Empty	5,000'	35x26
8.5/6	11350853	10823054	10012061	8.5/6mm MicroDuct Smooth Out-Ribbed In Silicore		Empty	5,000'	35x26

\*Reel size may vary, longer reel lengths available

# MicroDucts for MDU

Dura-Line, the leader in MicroDuct Technology has developed two new MicroDucts to meet Verizon's specific MDU needs. The two new MicroDucts are made from fire retardant materials which are fully ETL Approved for Riser applications (V-2) and Plenum Air-Space applications (V-0) per UL-2024.

## Product Info

**Riser:** ETL Listed to UL 2024 & CSA C22.2 #262-04 and UL-94 V-2 & CSA FT4  
**Plenum:** ETL Listed to UL 2024 & CSA C22.2 #262-04 and UL 94 V-0 & CSA FT6

## Size Range

12.7mm and 8.5mm

## Colors



## Features

- SILICORE™ super slick permanent lining (an added value, Riser)
- Preinstalled 50 Pound pull line (an added value)
- Sequential footage markings
- Available reel sizes 1,000, 2,500 and 5,000 foot lengths for easy transportation to and from the project sites













## MICRODUCTS FOR MDU TECH SPECS

	OD/ID (MM)	NOM OD (MM/IN)	MIN ID (MM/IN)	WEIGHT (#/FT)	BEND RADIUS SUP* (IN)	BEND RADIUS UNSUP* (IN)	SAFE WORKING PULL STRENGTH†
RISER	12.7/10	12.7/0.50	9.8/0.39	0.033	5	10	156 lbs
	8.5/6	8.5/0.33	5.9/0.23	0.022	5	8	89 lbs
PLENUM	12.7/10	12.7/0.50	10.2/0.40	0.052	8	13	188 lbs
	8.5/6	8.5/0.33	6.7/0.26	0.024	5	8	89 lbs

Unsupported Bend Radius guidelines should be followed during the installation process. The Supported Bend Radius are post-installation measurements.

†Safe working pull strength is calculated at 80% of tensile or breaking strength

## MICRODUCTS FOR MDU ORDERING INFO




		VERIZON SSI#	VERIZON MMID#	DURA-LINE PART #	MATERIAL DESCRIPTION	COLOR	PRE-INSTALLED STRING	FT/REEL	REEL SIZE*
RISER	12.7/10	11023403	10796194	10005925	12.7/10mm Riser MicroDuct		50# String	5,000'	35x26
		11023523	10796169	10005924	12.7/10mm Riser MicroDuct		50# String	2,500'	35x26
		11023522	10796202	10005928	12.7/10mm Riser MicroDuct		50# String	1,000'	24x21
	8.5/6	11023401	10796192	10005921	8.5/6mm Riser MicroDuct		50# String	5,000'	35x26
		11023519	10796191	10006472	8.5/6mm Riser MicroDuct		50# String	2,500'	24x21
		11023518	10796193	10005922	8.5/6mm Riser MicroDuct		50# String	1,000'	24x21
PLENUM	12.7/10	11023402	10796171	10005930	12.7/10mm Plenum MicroDuct		50# String	5,000'	35x26
		11023521	10796203	10005929	12.7/10mm Plenum MicroDuct		50# String	2,500'	35x26
		11023520	10796170	10005931	12.7/10mm Plenum MicroDuct		50# String	1,000'	24x21
	8.5/6	11023400	10796208	10008759	8.5/6mm Plenum MicroDuct		50# String	5,000'	35x26
		11023516	10796213	10007547	8.5/6mm Plenum MicroDuct		50# String	2,500'	24x21
		11023517	10796206	10008760	8.5/6mm Plenum MicroDuct		50# String	1,000'	24x21

\*Reel size may vary

VERIZON SSI#	VERIZON MMID#	DURA-LINE PART #	REPLACEMENT STRING	QTY/SPOOL	WEIGHT	SIZE
11182601	10796230	20000652	Replacement String for MDU MicroDucts	14,000'	5 lbs	14"

# MicroDucts for MDU with Pre-Installed Fiber Cable






Dura-Line, the leader in MicroDuct Technology has developed two new MicroDucts to meet Verizon's specific MDU needs. The two new MicroDucts are made from fire retardant materials which are fully ETL Approved for Riser applications (V-2) and Plenum Air-Space applications (V-0) per UL-2024. Depending on your specific project applications, you can choose from 12.7 mm or 8.5 mm MicroDuct.

Product Info	<b>Riser:</b> ETL Listed to UL 2024 & CSA C22.2 #262-04 and UL-94 V-2 & CSA FT4 <b>Plenum:</b> ETL Listed to UL 2024 & CSA C22.2 #262-04 and UL 94 V-0 & CSA FT6		
Size Range	12.7mm and 8.5mm	Colors	 
Features	<ul style="list-style-type: none"> <li>SILICORE™ super slick permanent lining (an added value, Riser)</li> <li>Pre-Installed single fiber, bend insensitive, Fiber Cable (cordage) (Ivory in color)</li> <li>Sequential footage markings</li> <li>Available on small sized non-returnable wooden reels with 4,000 or 2,500 feet for easy transportation to and from the project sites</li> <li>Available in both a Riser &amp; Plenum versions</li> <li>2,500' reel weighs 76 pounds; 4,000' reels weigh 171 pounds</li> </ul> 		

MICRODUCTS FOR MDU WITH FIBER TECH SPECS							
	OD/ID (MM)	NOM OD (MM/IN)	MIN ID (MM/IN)	WEIGHT (#/FT)	BEND RADIUS SUP (IN)	BEND RADIUS UNSUP (IN)	SAFE WORKING PULL STRENGTH†
RISER	8.5/6	8.5/0.33	5.9/0.23	0.022	5	8	89 lbs
	12.7/10	12.7/0.50	9.8/0.39	0.033	5	10	156 lbs
PLENUM	8.5/6	8.5/0.33	6.7/0.26	0.024	5	8	89 lbs
	12.7/10	12.7/0.50	10.2/0.40	0.052	8	13	188 lbs

\*Unsupported Bend Radius guidelines should be followed during the installation process. The Supported Bend Radius are post-installation measurements.

†Safe working pull strength is calculated at 80% of tensile or breaking strength

MICRODUCTS FOR MDU WITH FIBER ORDERING INFO								
		VERIZON SSI#	VERIZON MMID#	DURA-LINE PART #	MATERIAL DESCRIPTION		FT/REEL	REEL SIZE*
RISER	12.7	11350856	10823078	10011672	12.7/10mm Riser Rated with pre-installed single fiber cord		4,000'	35x26
		11350855	10823080	10011673	12.7/10mm Riser Rated with pre-installed single fiber cord		2,500'	35x26
	8.5	11050063	10796197	10008761	8.5/6mm Riser Rated with pre-installed single fiber cord		4,000'	35x26
		11181576	10796229	10008762	8.5/6mm Riser Rated with pre-installed single fiber cord		2,500'	24x21
PLENUM		11049837	10796226	10008763	8.5/6mm Plenum Rated with pre-installed single fiber cord		4,000'	35x26

\*Reel size may vary

# FuturePath Flex

## for MDU & Saw Cut Installations

Dura-Line, the leader in MicroDuct Technology has developed MicroDucts in two sizes, to meet Verizon's specific MDU & Saw Cut Installation requirements. The new MicroDucts and FuturePath Flex are available as a loose single MicroDuct or combined into one flexible bundle called FuturePath Flex of 2, 4 or 6 MicroDucts. Utilizing the FuturePath Flex pre-configured bundles, you will save on installation time and add versatility and expansion opportunities to your projects.

### Product Info

**Riser:** ETL Listed to UL 2024 & CSA C22.2 #262-04 and UL-94 V-2 & CSA FT4  
**Plenum:** ETL Listed to UL 2024 & CSA C22.2 #262-04 and UL 94 V-0 & CSA FT6

### Size Range

18mm OD/15mm ID: Smooth Interior    12.7mm OD/10mm ID: Ribbed Interior

### Features

- SuperSILICORE™ super slick permanent lining
- All OSP MicroDucts are color coded for easy identification and are made from HDPE for any OSP installation or Riser for ISP applications
- Each MicroDuct is large enough to install a pre-connector fiber drop, removing the cost of splicing the connector on after the cable is pulled/pushed in
- 18/15 mm is also available in a Riser Version



### Color/Stripe



### Accessories



Straight Splice Coupler

End Cap/Plug

See page 17

### FUTUREPATH FLEX TECH SPECS

PRODUCT TYPE	SIZE (MM)	# DUCTS	NOM OD (IN) HEIGHT/ WIDTH	OVER SHEATH (IN)	WEIGHT (#/FT)	BEND RADIUS SUP* (IN)	BEND RADIUS UNSUP* (IN)	SAFE WORKING PULL STRENGTH†
FuturePath Flex	18/15	2	0.77/1.63	0.030	0.160	12	19	853 lbs
	18/15	4	0.77 /3.34	0.030	0.326	12	19	1,731 lbs
	18/15	6	0.77/5.05	0.030	0.498	11	19	2,645 lbs
MicroDuct HDPE	18/15	1	0.709	–	0.050	11	18	271 lbs
MicroDuct Riser	18/15	1	0.709	–	0.062	7	14	253 lbs
MicroDuct Plenum	18/15	1	0.709	–	0.097	7	14	352 lbs
FuturePath Flex Riser	18/15	2	0.77/1.63	0.030	0.195	12	19	888 lbs
	18/15	4	0.77 /3.34	0.030	0.395	12	19	1,802 lbs
	18/15	6	0.77/5.05	0.030	0.604	11	19	2,762 lbs

\*Unsupported Bend Radius guidelines should be followed during the installation process. The Supported Bend Radius are post-installation measurements.

†Safe working pull strength is calculated at 80% of tensile or breaking strength



# FUTUREPATH FLEX ORDERING INFO

	VERIZON SSI#	VERIZON MMID#	DURA-LINE PART #	MATERIAL DESCRIPTION		EMPTY/ TAPE	FT/REEL	REEL SIZE*
18/15 MM	OSP	11082780	10796142	10004865	6-Way 18/15mm FuturePath Flex	Empty	4,000'	90x45
		11082779	10796139	10004556	4-Way 18/15mm FuturePath Flex	Empty	2,500'	66x45
		11082778	10796108	10004555	2-Way 18/15mm FuturePath Flex	Empty	1,000'	42x31
		11083004	10796190	10005876	Single 18/15mm MicroDuct	Empty	5,000'	42x31
		11083748	10796181	10005920	Single 18/15mm MicroDuct	Empty	2,500'	35x26
	RISER	11085083	10796089	10004551	6-Way 18/15mm Riser FuturePath Flex	Empty	4,000'	90x45
		11085082	10796210	10010562	4-Way 18/15mm Riser FuturePath Flex	Empty	2,500'	66x45
		11085081	10796121	10004550	2-Way 18/15mm Riser FuturePath Flex	Empty	1,000'	42x31
		11321321	10796195	10005932	Single 18/15mm Riser MicroDuct	50# String	2,500'	35x26
12.7/10 MM	OSP	11281408	10796225	10007557	8-Way 12.7/10mm FuturePath Flex	Empty	4,000'	90x45
		11280431	10796140	10004563	6-Way 12.7/10mm FuturePath Flex	Empty	4,000'	83x45
		11323946	10796223	10009142	4-Way 12.7/10mm FuturePath Flex	Empty	4,000'	72x45
		11280433	10796232	10009284	2-Way 12.7/10mm FuturePath Flex	Empty	4,000'	66x45
		11280434	10796161	10009046	Single 12.7/10mm MicroDuct	Empty	5,000'	35x26

\*Reel size may vary



Ideal for saw cut installations where the concrete or asphalt can be cut quickly and existing utilities are not normally present. The transition from buried to saw cut is no issue either for the FuturePath Flex and no need for a splice/transition point, further reducing installation and construction costs.

FuturePath Flex is ideal for existing MDU applications as the pre-connectorized fiber cable can be hand pushed through the MicroDuct eliminating splicing costs & connection delays.

# FuturePath

FuturePath® is the latest technology in Dura-Line's MicroDuct product line. FuturePath allows the ability to add additional fiber cables as the network grows, all within the same duct structure.

Lower your installations costs as you are installing one pre-bundled unit, but with multiple pathways, there is space for today and growth in the future!

## Product Info

Orange jacket with individual color coded MicroDucts.  
Largest MicroDuct can accommodate a 432 fiber cable count.

## Size Range

10/6 mm, 16/13 mm, 18/14 mm

## Sheath Color



## Features

- Cost-Effective: multiple pathways for one installation cost
- Ships on a Standard Reel
- FuturePath is designed for installation using the same tools and equipment that are used for traditional conduit or innerduct. No special tools or equipment are required.
- Multiple pathways in place for future growth
- 20 gauge locate wire making locates easy and reliable
- SuperSILICORE super slick permanent lining

**SUPER  
SILICORE**

## FUTUREPATH TECH SPECS

CONFIG	OD/ID (MM)	NOM OD (IN)	OVER SHEATH (IN)	WEIGHT (#/FT)	BEND RADIUS SUP* (IN)	BEND RADIUS UNSUP* (IN)	SAFE WORKING PULL STRENGTH†
2-Way	10/6	0.47/0.86	0.035	0.097	5/9	9/17	517 lbs
	16/13	0.73/1.35	0.050	0.153	7/14	15/27	824 lbs
	18/14	0.85/1.56	0.070	0.244	9/16	17/31	1,316 lbs
4-Way	18/14	1.56/1.86	0.070	0.417	19	37	2,243 lbs
<b>7-Way</b>	<b>18/14</b>	<b>2.08/2.27</b>	<b>0.070</b>	<b>0.656</b>	<b>31</b>	<b>52</b>	<b>3,522 lbs</b>

Unsupported Bend Radius guidelines should be followed during the installation process. The Supported Bend Radius are post-installation measurements.

†Safe working pull strength is calculated at 80% of tensile or breaking strength

## MICRODUCT TECH SPECS

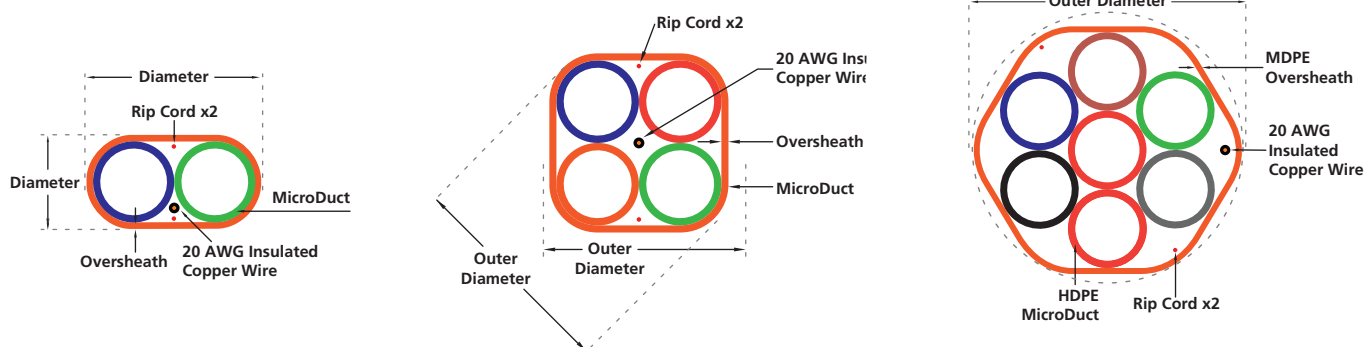
	MICRODUCT	MICRODUCT MIN ID (MM/IN)	MICROCABLE OD RANGE (MM)
	10/6	5.8/0.23	3.0 – 4.5
	16/13	12.8/0.50	6.5 – 9.8
	18/14	13.6/0.54	7.0 – 10.5

## FUTUREPATH ORDERING INFO

	VERIZON SSI#	VERIZON MMID#	DURA-LINE PART #	MATERIAL DESCRIPTION	COLOR	EMPTY/TAPE	FT/REEL	REEL SIZE*
18/14	11350850†	10823095	10009697	7-Way 18/14mm HDPE FuturePath	Orange	Empty	2,500'	90x45 or divided†
	11350851	10823068	10004764	4-Way 18/14mm HDPE FuturePath	Orange	Empty	2,500'	72x45
	11350852	10823094	10009134	2-Way 18/14mm HDPE FuturePath	Orange	Empty	5,000'	83x45
16/13	11179973	10796152	10004873	2-Way 16/13mm HDPE FuturePath	Orange	Empty	5,000'	66x45
10/6	11327983	10796160	10011031	2-Way 10/6mm HDPE FuturePath	Orange	Empty	2,500'	35x26

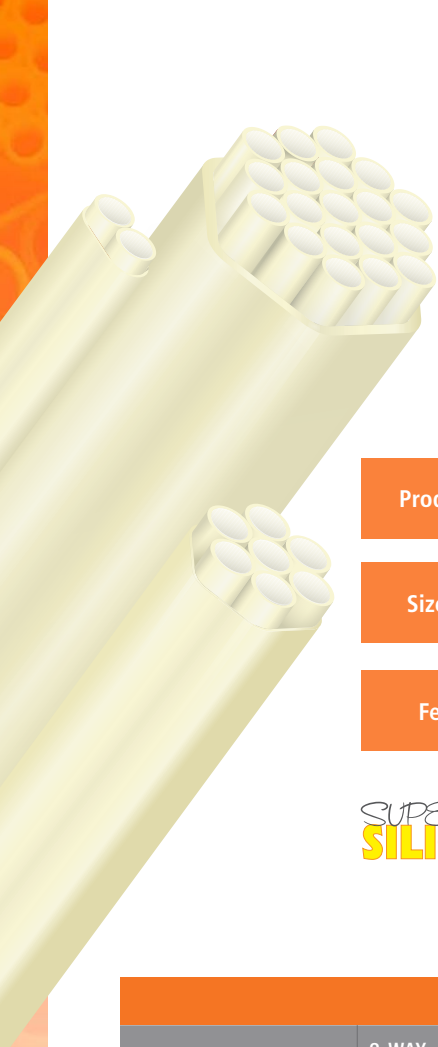
\*Reel size may vary

† Divided multi-duct reels available, see page 9





Other configurations of FuturePath are available, although not Verizon approved products.

If you have a question about another configurations, please contact Customer Service at (800) 847.7661.



# FuturePath, Riser Rated







Dura-Line has taken the field proven 8.5/6mm MicroDuct and bundling them together up to a 24-way FuturePath. Having up to 24 MicroDucts prebundled into one unit, allows for quicker deployments in building where large number of MicroDucts are needed and the ease of one step installation. Install up to 24 MicroDucts in the same time as it used to take to install one MicroDuct. Utilizing the FuturePath pre-configured bundles, you will save on installation time and add versatility and expansion opportunities to your projects.

Product Info	Riser MicroDucts (8.5 mm OD/6 mm ID) bundled under Riser jacket. Each MicroDuct pathway can hold up to 144 fibers. Multiple configurations available.		
Size Range	8.5/6 mm	Sheath Color/:	
Features	<div>  <ul style="list-style-type: none"> <li>• Cost-Effective: multiple pathways for one installation cost</li> <li>• Ships on a Standard Reel</li> <li>• FuturePath is designed for installation using the same tools and equipment that are used for traditional conduit or innerduct. No special tools or equipment are required.</li> </ul> </div> <div> <ul style="list-style-type: none"> <li>• Multiple pathways in place for future growth</li> <li>• 20 gauge locate wire making locates easy and reliable</li> <li>• SuperSILICORE super slick permanent lining</li> </ul> </div>		

FUTUREPATH TECH SPECS						
	2-WAY	4-WAY	7-WAY	12-WAY	19-WAY	24-WAY
OUTSIDE DIMENSIONS HXW (IN)	.44/.77	0.79/0.93	1.04/1.13	1.33/1.48	1.62/1.80	1.62/2.13
OUTSIDE DIMENSIONS HXW (MM)	11.2/19.7	20.2/23.7	26.4/28.7	33.8/37.7	41.1/45.7	41.1/54.2
WEIGHT/FOOT (LBS)	0.091	0.165	0.251	0.392	0.576	0.706
OVER-SHEATH THICKNESS (IN)	0.050	0.060	0.060	0.060	0.060	0.060
BEND RADIUS SUP* (IN)	7	12	16	20	24	32
BEND RADIUS UNSUP* (IN)	11	20	26	33	41	53
SAFE WORKING PULL STRENGTH†	419 lbs	749 lbs	1,119 lbs	1,724 lbs	2,502 lbs	3,050 lbs

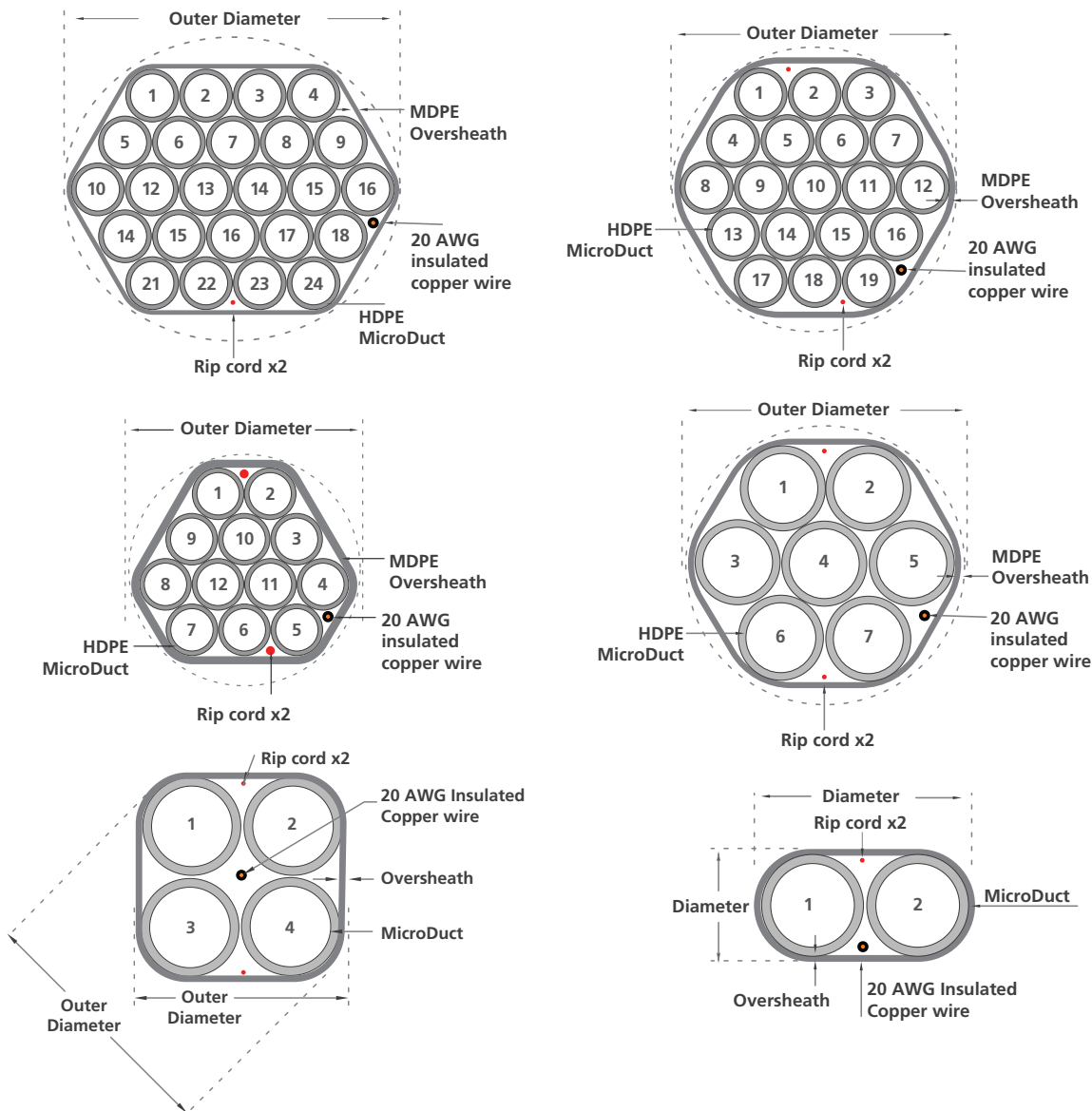
\*Unsupported Bend Radius guidelines should be followed during the installation process. The Supported Bend Radius are post-installation measurements.  
 †Safe working pull strength is calculated at 80% of tensile or breaking strength

## FUTUREPATH RISER RATED ORDERING INFO

	VERIZON SSI#	VERIZON MMID#	DURA-LINE PART #	MATERIAL DESCRIPTION		EMPTY/TAPE	FT/REEL REEL	REEL SIZE*
W8.5/6	11262170	10796207	10008984	24-Way 8.5/6mm Riser FuturePath		Empty	2,500'	72x45
	11262169	10796253	10010566	19-Way 8.5/6mm Riser FuturePath		Empty	4,000'	83x46
	11262168	10796211	10010565	12-Way 8.5/6mm Riser FuturePath		Empty	4,000'	66x45
	11262167	10796217	10010564	7-Way 8.5/6mm Riser FuturePath		Empty	4,000'	66x45
	11262166	10796214	10010563	4-Way 8.5/6mm Riser FuturePath		Empty	4,000'	66x45
	11327982	10796221	10011032	2-Way 8.5/6mm Riser FuturePath		Empty	2,500'	35x26

\*Reel size may vary

## FuturePath Configurations





# FuturePath Hybrid 6-way

A perfect choice to plan for future possibilities using larger standard fiber cables.

## Product Info


FuturePath configuration consisting of three 18/14 mm MicroDucts paired with three 1.25" True SDR 11.5 OR three 1.5" True SDR 11 conduit

## Features

- Cost-Effective: multiple pathways for one installation cost
- Multiple pathways in place for future growth
- 20 gauge locate wire making locates easy and reliable
- SuperSILICORE super slick permanent lining

**SUPER  
SILICORE**


## FUTUREPATH HYBRID 6-WAY TECH SPECS

SPECS FOR	CONDUIT SIZE	MAX OD (IN/MM)	WIDTH (IN/MM)	LENGTH (IN/MM)	OVERSHEATH (IN/MM)	WEIGHT (LB/FT)	BEND RADIUS SUPPORTED	BEND RADIUS UNSUP-PORTED	SAFE WORKING PULL STRENGTH (SWPS)†
	1.25" True SDR 11.5	3.35/85.1	3.12/79.2	3.34/84.8	0.070/1.78	1.116 lbs	50"	84"	5,963 lbs
	1.5" True SDR 11	4.21/107.0	3.92/99.5	3.97/100.8	0.070/1.78	1.682 lbs	63"	105"	9,162 lbs


Unsupported Bend Radius guidelines should be followed during the installation process. The Supported Bend Radius are post-installation measurements.

†Safe working pull strength is calculated at 80% of tensile or breaking strength

## 18/14 MM MICRODUCT TECH SPECS

SPECS FOR	OD (IN/MM)	AVG WALL (IN/MM)	MIN ID (IN/MM)
	0.709/18	0.080/2.01	0.535/13.6




## 1.25" TRUE SDR 11.5 HDPE DUCT TECH SPECS

SPECS FOR	OD (IN/MM)	MIN WALL (IN)	AVG ID (IN)
	1.488/37.80	0.109	1.224

## 1.5" TRUE SDR 11 HDPE DUCT TECH SPECS

SPECS FOR	OD (IN/MM)	MIN WALL (IN)	AVG ID (IN)
	1.900/48.26	0.173	1.533

## HYBRID FUTUREPATH ORDERING INFO

VERIZON SSI#	VERIZON MMID#	DURA-LINE PART #	MATERIAL DESCRIPTION	COLOR	EMPTY/TAPE	FT/REEL	REEL SIZE*
pending	10830486	10012855	6-Way Hybrid FuturePath (3) 1.25" True SDR 11.5 Smoothwall Conduits and (3) 18/14mm MicroDucts		Empty	1,250'	102x45
11366934	10840606	10012856	6-Way Hybrid FuturePath (3) 1.5" True SDR 11 Smoothwall Conduits and (3) 18/14mm MicroDucts		Empty	500'	96x45
11369354	10855018	10013103	6-Way Hybrid FuturePath (3) 1.5" True SDR 11 Smoothwall Conduits and (3) 18/14mm MicroDucts		Empty	1,200'	114x45

\*Reel size may vary

See the bottom of page 21 for recommended accessories

# FuturePath Hybrid 10-way

A perfect choice to plan for future possibilities using larger standard fiber cables.

## Product Info

FuturePath configuration consisting of two 1.25" True SDR 11.5 conduit and eight 18/14 mm MicroDucts

## Features

- Cost-Effective: multiple pathways for one installation cost
- Multiple pathways in place for future growth
- 20 gauge locate wire making locates easy and reliable
- SuperSILICORE super slick permanent lining

**SUPER  
SILICORE**

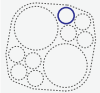
## FUTUREPATH HYBRID 6-WAY TECH SPECS

SPECS FOR	MAX OD (IN/MM)	WIDTH (IN/MM)	LENGTH (IN/MM)	OVERSHEATH (IN/MM)	WEIGHT (LB/FT)	BEND RADIUS SUPPORTED	BEND RADIUS UNSUPPORT	SAFE WORKING PULL STRENGTH (SWPS) <sup>†</sup>
	4.09/103.8	3.52/89.3	3.58/90.9	0.070/1.78	1.285 lbs	63"	105"	8,783 lbs


Unsupported Bend Radius guidelines should be followed during the installation process. The Supported Bend Radius are post-installation measurements.

<sup>†</sup>Safe working pull strength is calculated at 80% of tensile or breaking strength

## 18/14 MM MICRODUCT TECH SPECS

SPECS FOR	OD (IN/MM)	AVG WALL (IN/MM)	MIN ID (IN/MM)
	0.709/18	0.080/2.01	0.535/13.6

## 1.5" TRUE SDR 11 HDPE DUCT TECH SPECS

SPECS FOR	OD (IN/MM)	MIN WALL (IN)	AVG ID (IN)
	1.890/48.01	0.170	1.5

## HYBRID FUTUREPATH ORDERING INFO

VERIZON SSI#	VERIZON MMID#	DURA-LINE PART #	MATERIAL DESCRIPTION	COLOR	EMPTY/TAPE	FT/REEL	REEL SIZE*
11366933	10840590	10012857	10-Way Hybrid FuturePath (2) 1.5" True SDR 11 Smoothwall Conduits and (8) 18/14mm MicroDucts		Empty	1,050'	114x45

\*Reel size may vary

## RECOMMENDED ACCESSORIES FOR HYBRID FUTUREPATH

VERIZON SSI#	VERIZON MMID#	DURA-LINE PART #	ITEM DESCRIPTION	QUANTITY PER BOX
11330824	10796256	20003965	1.25" True SDR 11.5 Shur-Lock Coupler (see page 32 for more info)	10
11330823	10796283	20003966	1.5" True SDR 11 Shur-Lock (see page 32)	10
11083069	10796268	20001518	18mm MicroDuct Coupler (see page 29)	10
11083068	10796245	20001485	18mm MicroDuct End Cap (see page 29)	10

# Jumbo FuturePath

A perfect choice to plan for future possibilities using larger standard fiber cables.

## Product Info

FuturePath configuration consisting of three 1.25" True SDR 11.5 conduit

## Features

- Cost-Effective: multiple pathways for one installation cost
- Multiple pathways in place for future growth
- 20 gauge locate wire making locates easy and reliable


## FUTUREPATH JUMBO 3-WAY TECH SPECS

SPECS FOR	MAX OD (IN/MM)	WIDTH (IN/MM)	LENGTH (IN/MM)	OVER-SHEATH (IN/MM)	WEIGHT (LB/FT)	BEND RADIUS SUPPORTED	BEND RADIUS UNSUPPORT-ED*	SAFE WORKING PULL STRENGTH (SWPS)†
	3.35/85.1	3.12/79.2	2.92/74.2	0.070/1.78	0.903 lbs	44"	73"	4,930 lbs


\*Unsupported Bend Radius guidelines should be followed during the installation process. The Supported Bend Radius are post-installation measurements.

†Safe working pull strength is calculated at 80% of tensile or breaking strength

## 1.25" TRUE SDR 11.5 HDPE DUCT TECH SPECS

SPECS FOR	OD (IN)	MIN WALL (IN)	AVG ID (IN)
	1.488	0.109	1.224

## JUMBO FUTUREPATH ORDERING INFO

VERIZON SSI#	VERIZON MMID#	DURA-LINE PART #	MATERIAL DESCRIPTION		EMPTY/TAPE	FT/REEL	REEL SIZE*
11369717	10830487	10012854	3-Way Jumbo FuturePath (3) 1.25" True SDR 11.5 Smoothwall Conduits		Empty	1,500'	102x45

\*Reel size may vary

## RECOMMENDED ACCESSORIES FOR JUMBO FUTUREPATH


VERIZON SSI#	VERIZON MMID#	DURA-LINE PART #	ITEM DESCRIPTION	QUANTITY PER BOX
11330824	10796256	20003965	1.25" True SDR 11.5 Shur-Lock Coupler (see page 32 for more info)	10




# FuturePath Figure-8 Aerial

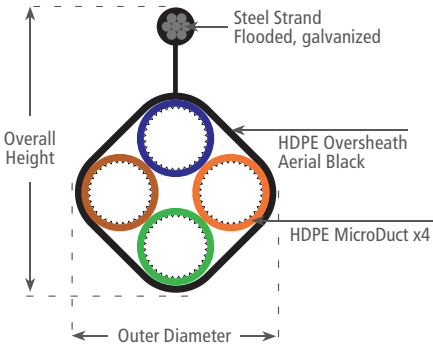
A perfect choice to plan for future possibilities in an aerial application

Product Info	FuturePath configuration consisting of four 18/14mm bundled MicroDucts
Features	<ul style="list-style-type: none"> <li>Cost-effective: multiple pathways for one installation cost and future growth</li> <li>Utilizes industry standard extra high-strength galvanized steel strand hardware</li> <li>20 gauge locate wire making locates easy and reliable</li> </ul>

FUTUREPATH FIGURE-8 TECH SPECS										
CONFIG	MICRODUCT SIZE (MM)	OVERALL HEIGHT	STRAND DIAMETER	OUTER DIAMETER	OVER-SHEATH	WEIGHT/ FOOT (LB/FT)	BEND RADIUS SUP*	BEND RADIUS UNSUP*	CONDUIT SAFE WORKING PULL STRENGTH†	STRAND WORKING PULL STRENGTH
	18/14	2.53"	1/4"	1.89"	0.085"	0.611	43"	71"	2,647 lbs	6,650 lbs

\* Unsupported Bend Radius guidelines should be followed during the installation process. The Supported Bend Radius are post-installation measurements.  
 † Safe working pull strength is calculated at 80% of tensile or breaking strength

1.25" TRUE SIDR 11.5 HDPE DUCT TECH SPECS		
CONFIG	OD (IN)	MIN ID
	18/14 mm	13.8 mm (0.61")



FUTUREPATH FIGURE-8 ORDERING INFO							
VERIZON SSI#	VERIZON MMID#	DURA-LINE PART #	MATERIAL DESCRIPTION		EMPTY/TAPE	FT/ REEL	REEL SIZE*
11370393	10854530	10012363	FuturePath Figure-8 (Aerial) (4) 18/14mm MicroDucts with 6.6mm Strand	UV	Empty	2,500'	90x45

\*Reel size may vary

## MicroDuct Accessories

Straight MicroDuct Cutter is a simple tool. Just open the cutter and place the MicroDuct inside and close. This cutter gives a very nice 90 degree cut which is required at the MicroDuct splice point.

Round MicroDuct Cutter differs from the straight cutter in that it cuts just the MicroDuct itself, not the MicroCable or pull string inside. The round cutter has a blade and guides which will not allow the blade to cut any deeper than the wall of the MicroDuct itself.

Couplers and End Caps provide an air and water tight connection and keep debris out of MicroDuct pathway. They are designed and tested to meet or exceed industry standards, and the low profile design withstands chemical and harsh environment conditions.



Straight MicroDuct Cutter



Round MicroDuct Cutter



18 mm Coupler



16 mm Coupler



12.7/10 mm Coupler



8.5/6 mm Coupler



18 mm End Cap



16 mm End Cap



12.7/10 mm End Cap

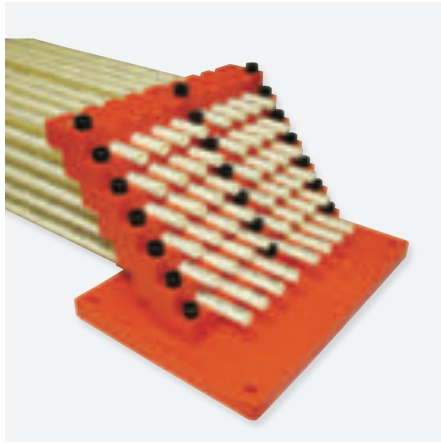


8.5/6 mm End Cap

### MICRODUCT ACCESSORIES

	VERIZON SSI#	VERIZON MMID#	DURA-LINE PART #	DESCRIPTION	QUANTITY PER BOX
CUTTER	11023598	10796236	20001745	Round Cutter	1 Cutter
	11023599	10796269	20001856	Straight Cutter	1 Cutter
COUPLER	11083069	10796268	20001518	18mm MicroDuct Coupler	10
	11179972	10796234	20001517	16mm MicroDuct Coupler	10
	11023396	10796247	20001832	12.7mm MicroDuct Coupler	10
	11023398	10796270	20001834	8.5mm MicroDuct Coupler	10
END CAP	11083068	10796245	20001485	18mm MicroDuct End Cap	10
	11179971	10796248	20001908	16mm MicroDuct End Cap	10
	11023397	10796254	20001482	12.7mm MicroDuct End Cap	10
	11023399	10796246	20001523	8.5mm MicroDuct End Cap	10

VERIZON SSI#	VERIZON MMID#	DURA-LINE PART #	REPLACEMENT STRING	QTY/SPPOOL	WEIGHT	SIZE
11182601	10796230	20000652	Replacement String for MDU MicroDucts	14,000'	5 lbs	14"



## MicroDuct Mounting Brackets & Plates

In MDU applications, a method was needed to organize and secure the MicroDucts. Dura-Line developed a bracket system that securely holds the MicroDucts in place and avoids possible damage and potential fiber breakage. Each bracket solidly holds 8 MicroDucts, keeping them neat and organized. It is modular so it can be customized for specific requirements. Depending on the application, the brackets will also work with both Riser and Plenum rated MicroDucts.

### Features:

- Modular system, grow as needed. Order only what you need, add on in the future.
- Each bracket holds 8 MicroDucts securely in place.
- First bracket comes already mounted to the base plate.
- No special tools required, just a 3/16" Allen wrench needed to assemble and disassemble the bracket.

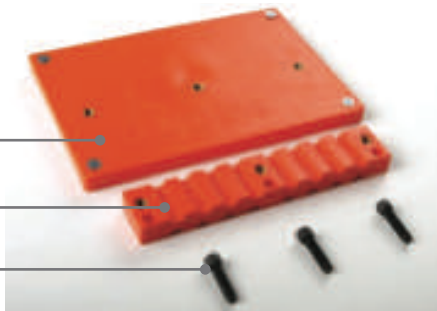
MICRODUCT MOUNTING BRACKET						
	VERIZON SSI#	VERIZON MMID#	DURA-LINE PART #	MATERIAL DESCRIPTIONS	QUANTITY	COLOR
8.5	11047107	10796251	20002120	8.5mm Mounting Plate with 1 Bracket	1	Orange
	11047108	10796235	20001719	8.5mm Mounting Bracket with 3 screws	1	Orange
12.7	11047105	10796255	20002121	12.7mm Mounting Plate with 1 Bracket	1	Orange
	11047106	10796250	20001929	12.7mm Mounting Bracket with 3 screws	1	Blue

### Wall Mounting Plate

Wall Plate

Base Bracket

Screws



### Wall Mounting Plate Assembled



**Mounting Bracket**  
Secures each row of MicroDucts, includes 3 screws



**Wall Bracket**  
Fully Assembled First Row

### Ordering info:

- **(1) Wall Mounting Plate which includes:** one (1) Wall Plate + one (1) Base Mounting Bracket **AND** order One (1) Mounting Bracket **to complete first row.**
- For each additional row of MicroDucts, order only one (1) Mounting Bracket per row of eight (8) MicroDucts.





## MicroDuct/MicroCable Sealing End Cap

Once the fiber optic cable is installed, a simple way to keep the dirt and water from getting inside of the MicroDuct is installing a MicroDuct/MicroCable Sealing End Cap. No tools required and quick to install. The gel inside does not stick to your hands, but molds around the MicroDuct and fiber optic cable to stop any contaminants from getting inside of the MicroDuct.

### Features:

- Fits 12.7/10mm MicroDuct
- No tools required/Simple and quick to install
- Can be installed, reopened and re-installed, reusable
- Designed for handholes, manholes or direct buried installations

### MICRODUCT/MICROCABLE SEALING END CAP

VERIZON SSI#	VERIZON MMID#	DURA-LINE PART #	MATERIAL DESCRIPTIONS	QTY PER BOX
11283613	10825000	20001931	12.7/10mm Sealing End Cap	10



## Conduit HT FlexClip w/Screw

Wall mountable clip that will hold one duct or multiple ducts, such as MicroDuct from 0.75" to 1.40" OD

### Features:

- One screw easily screws into mounting service
- Holds one or several ducts securely
- Re-useable clip can be opened and reclosed as needed



### CONDUIT HT FLEXCLIP W/SCREW

VERIZON SSI#	VERIZON MMID#	DURA-LINE PART #	MATERIAL DESCRIPTION	MOQ
11293300	10796272	20002885	Conduit HT FlexClip with Screw (0.75-1.40 OD)	10



## Shur-Lock Coupler

The Shur-Lock II is designed for coupling HDPE and PVC conduit. It features stainless steel band clamps, hand tighten with 5/16" nut driver, and a locking ring. The Shur-Lock II provides excellent pull out strength on HDPE, PVC, FRP and steel.

### Features:

- One person installation
- Re-enterable, no special tools required
- Air & water tight

SHUR-LOCK COUPLER				
VERIZON SSI#	VERIZON MMID#	DURA-LINE PART #	MATERIAL DESCRIPTION	QTY PER BOX
11330827	10796282	20003962	1" True SDR 9 Shur-Lock	10
11330826	10796273	20003963	1" True SDR 11.5 Shur-Lock	10
11330825	10796257	20003964	1.25" True SDR 9 Shur-Lock	10
11330824	10796256	20003965	1.25" True SDR 11.5 Shur-Lock	10
11330823	10796283	20003966	1.5" True SDR 11 Shur-Lock	10
11330822	10796284	20003967	2" True SDR11/True SDR 13.5 Shur-Lock	10
call for quote	10796199	20000172	2.5" SDR 11 Shur-Lock	6
11330821	10796216	20000173	3" SDR 11 Shur-Lock	6
11330820	10796228	20000245	4" SDR 11 Shur-Lock	4



## 2" Push-Lock Coupler

### Features:

- Simple, one person 'push-on' assembly lowers installation costs
- Self-locking ring design assembles in seconds; is re-enterable
- High strength molded plastic body ideal for buried duct applications
- Pre-lubricated O-ring is water and air tight suitable for both cable pulling & jetting applications
- Max tensile pullout: 1,700 lbs
- Max pressure: 150psi

PUSH-LOCK COUPLER				
VERIZON SSI#	VERIZON MMID#	DURA-LINE PART #	MATERIAL DESCRIPTION	MOQ
11366576	10830038	20004632	2" VZN True SDR 11/True SDR 13.5 Push-Lock	50
11371405	10857908	20001847	2" Standard Push-Lock (NOTE: to only be used on 2" SDR 9 Product)	50



## E-LOC Coupler

### Features:

- Low-cost PVC push-on coupler with a molded rubber gripping insert
- Can be used on HDPE, PVC, Fiberglass (FRE), and metal conduit
- Fast push-on installation
- One person installation
- Low pull out strength
- Not recommended for blowing or plow chute applications
- Transition couplers are used to join ducts with different outside diameters. The double E-LOC versions are suitable for cable blowing applications.

E-LOC COUPLER				
VERIZON SSI#	VERIZON MMID#	DURA-LINE PART #	MATERIAL DESCRIPTION	MOQ
11372193	10859470	20005061	2" Aerial E-LOC (2.350 OD)	5



## Aluminum Threaded Coupler

### Features:

- Reverse-threaded aluminum coupler
- Tapered threads accommodate a wide range of conduit OD's within a given conduit size
- Wide tolerance to fit most conduits
- Easy to install
- Not air or water tight
- Threads may reduce conduit ID
- Self-threading, which draws each end of the conduit into the center of the coupler

ALUMINUM THREADED COUPLER				
VERIZON SSI#	VERIZON MMID#	DURA-LINE PART #	MATERIAL DESCRIPTION	MOQ
11260427	10858174	20003141	1" AL Threaded Coupler (1.160-1.410 OD)	5
11260426	10858157	20003913	1.25" AL Threaded Coupler (1.4-1.57 OD)	5
11260424	10858192	20003897	1.5" AL Threaded Coupler (1.800-2.000 OD)	5
11260423	10858175	20005865	2" AL Threaded Coupler (2.310-2.450 OD)	5



## Innerduct Plugs

- Prevents foreign material from entering conduit
- Features internal eye for securing factory installed pull-line
- Re-usable, non-metallic design, no special tools needed
- Sizes from 3/4" to 6"
- Provides a water tight seal in smooth, ribbed, and corrugated conduit
- Water Seal to 15 PSI

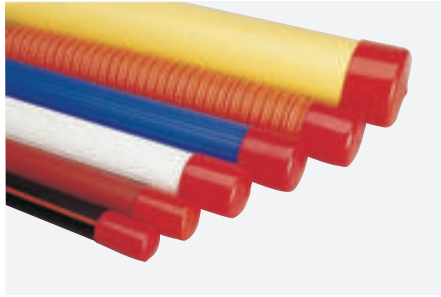
### EXPANSION PLUGS

VERIZON SSI#	VERIZON MMID#	DURA-LINE PART #	MATERIAL DESCRIPTION	QUANTITY PER BOX
11371437	10858130	20001768	1" Expansion Plug for Conduit ID 0.994"-1.390"	5
11371438	10858131	20001871	1.25" Expansion Plug for Conduit ID 1.156"-1.510"	5
11371439	10858170	20001973	1.5" Expansion Plug for Conduit ID 1.460"-1.830"	5
11371440	10858182	20001870	2" Expansion Plug for Conduit ID 1.834"-2.386"	5
11371441	10858167	20003426	2.5" Expansion Plug for Conduit ID 2.300"-2.990"	5
11371442	10858101	20001764	3" Expansion Plug for Conduit ID 2.920"-3.450"	5
11371443	10858165	20001765	4" Expansion Plug for Conduit ID 3.94"-4.33"	5
11371446	10858166	20004989	1.25 0 Simplex Plug (Cable OD 0.35"- 0.57")	5
11371445	10858187	20004990	1.250. Simplex Plug (Cable OD 0.51"-0.71")	5
11371447	10858176	20004991	1.25IN/ Simplex Plug (Cable OD 0.71"- 0.84")	5
11371454	10858186	20004994	2" Simplex Plug (Cable OD 0.15"- 0.24")	5
11371453	10858156	20004996	2" Simplex Plug (Cable OD 0.25"- 0.51")	5
11371451	10858158	20004995	2" Simplex Plug (Cable OD 0.52"- 0.75")	5
PENDING	PENDING	20005084	2" Simplex Plug (Cable OD 0.76"-1.00")	5
11371448	10858184	20004992	Square Conduit Plug 3.25-3.65	5
11371452	10858185	20004997	Square Conduit Plug 4.00 3.74	5
11371449	10858168	20004993	3.5" Solid Round Conduit Plug	5
11371444	10858173	20001873	4" Triplex Duct Plug OD Ranges 1.48"-1.52"	5
11371450	10858169	20004998	4" Quadplex Conduit Plug 3.97" - 4.09"	5

## Innerduct Repair Kits

### REPAIR KITS

VERIZON SSI#	VERIZON MMID#	DURA-LINE PART #	MATERIAL DESCRIPTION	QUANTITY PER BOX
11036253	pending	20001959	1.25" True SIDR 9 Innerduct Repair Kit	1
11036254	pending	20001960	1.5" True SDR 11 Innerduct Repair Kit	1
11036255	pending	20001961	2" True SDR 11 Innerduct Repair Kit	1



## Vinyl End Caps

Flat Vinyl Innerduct Caps are used as a cover protection from dust and dirt.

### Features:

- Protects inner contents from disturbance
- Flexible nature allows for easy installation
- Excellent stay ability
- Caps are 1 1/2" in length

### FLAT VINYL END CAPS

VERIZON SSI#	VERIZON MMID#	DURA-LINE PART #	MATERIAL DESCRIPTION	QUANTITY PER BOX
11012704	10858193	20001807	1" Flat End Cap (1.315 OD)	50
11371433	10858155	20001737	1" Tapered End Cap (1.300 OD)	50
11012698	10858195	20001738	1.25" Flat End Cap (1.660 OD)	50
11012703	10858196	20001810	1.25" Flat End Cap (1.488 OD)	50
11371434	10858164	20001739	1.25" Tapered End Cap (1.640 OD)	50
11012702	10858197	20002533	1.5" Flat End Cap (1.900 OD)	50
11371435	10858183	20002055	1.5" Tapered End Cap (1.900 OD)	50
11012701	10858198	20001815	2" Flat End Cap (2.375 OD)	50
11371436	10858172	20001740	2" Tapered End Cap (2.375 OD)	50

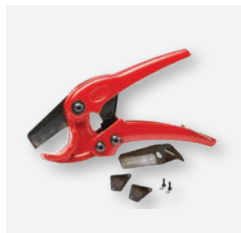


## Sealant Kits

Foam-in-place two-part polyurethane material expands approximately 15 times in volume to form a strong, tough foam for sealing conduits and innerducts, cracks in walls and filling large voids

### SEALANT KITS

VERIZON SSI#	VERIZON MMID#	DURA-LINE PART #	MATERIAL DESCRIPTION	QUANTITY PER BOX
11371410	10858163	20000329	Sealant Kit-1 Cylinder, 2 Donuts, 2 Stripes, Gloves	20 per case
11371411	10858129	20000332	Sealant Kit-1 Cylinder, 2 Stripes, Gloves	20 per case
pending	10861712	20000014	Hydra-Seal S-50 1lb. Putty Bars	30 per case



Ratchet Cutter



Kwik Cutter



Rotary Cutter

## Cutters

- Ratchet cutter is designed to utilize average hand gripping strength to shear cut HDPE
- Kwik cutter cuts up to 2" duct
- Rotary cutter designed for gradual, even cutting

CUTTERS				
VERIZON SSI#	VERIZON MMID#	DURA-LINE PART #	MATERIAL DESCRIPTION	QUANTITY PER BOX
11090325	10859455	20001923	Ratchet Cutter for 3/4" to 1.25" Duct	1
11101116	10859466	20001803	Ratchet Cutter for 2" Duct	1
11101115	10859450	20001907	Replacement Blade for 20001923	1
11090322	10859472	20001718	Replacement Blade for 20001803	1
11330715	10859351	20001922	Kwik Cutter-cuts up to 2" Duct	1
11371689	pending	20001857	Rotary Cutter 1 7/8"-4 1/2"	1



## Bull-Line Pull Tape

Bull-Line pull tape is available in both detectable and non-detectable versions with pull strengths of 1,250 lbs, 1,800 lbs, or 2,500 lbs for all your installation needs.

### Features:

- Woven Bull-Line® POLYESTER Fiber
- Best burn-through (conduit cutting) resistance
- Good blow-ability into conduit
- Accurate sequential foot markings
- Available on reels in a wide variety of continuous lengths

BULL-LINE PULL TAPE					
VERIZON SSI#		VERIZON MMID#	DURA-LINE PART #	MATERIAL DESCRIPTION	FOOTAGE PER REEL
NON-DETECTABLE	11350858	10824942	20000052	1250lb Bull-Line Pull Tape	3,000'
	11350857	10824884	20000054	1250lb Bull-Line Pull Tape	5,000'
	11073853	10796266	20000068	1800lb Bull-Line Pull Tape	3,000'
	11073852	10796220	20000070	1800lb Bull-Line Pull Tape	5,000'
	11073851	10796252	20000383	1800lb Bull-Line Pull Tape	12,000'
	11101065	10824932	20000282	200lb Pull String in a box	6,500'
DETECTABLE	11073850	10796215	20000163	1800lb Detectable Bull-Line Pull Tape	3,000'
	11073849	10796201	20000384	1800lb Detectable Bull-Line Pull Tape	5,500'
	11073848	10796263	20000387	2500lb Detectable Bull-Line Pull Tape	5,000'





## Even-Load

Dura-Line Corporation has long been recognized for its field solutions to everyday problems. Such was the case with EVEN-LOAD. This unique process confidently provides easy access to the pull line regardless of how many runs are originated. By placing extra pull line footage evenly in the duct during the manufacturing process, Dura-Line's EVEN-LOAD Slack Process ensures slack in the tape at any access point throughout the duct reel. EVEN-LOAD is included in all ducts ordered with any of the approved tapes.

## Bull-Line Pull Tape

The duct can be ordered with a 1,800 pound Pull Tape. The Aerial Duct and Aerial Figure-8 Duct can also be ordered with a standard 1,800 pound Polyester Pull Tape.



## Reels with a single duct or multiple ducts

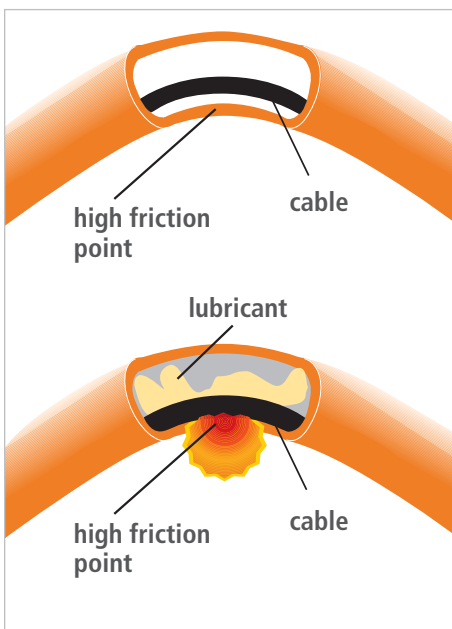
Dura-Line can provide up to three ducts on a single reel as required to ensure a successful installation. The reels are divided reels or compartment reels.

## Silicore

- Super slick permanent lining
- Optional feature on all standard conduit
- Co-extruded during manufacturing
- Easier and faster cable installations
- Reduced coefficient of friction
- Identifiable by its white color

## SuperSilicore

- Standard on all HDPE/OSP MicroDuct products
- Super slick permanent lining
- Permanent: remains unchanged for life of MicroDuct
- Easiest, fastest & farthest cable installs
- Lowest co-efficient of friction
- Identifiable by its bright yellow color



# Verizon reel return credit

In 2014 alone, Dura-Line recycled over 13 million pounds of steel through our steel reel return program. For every pound recycled, enough energy is saved to light a 60-watt bulb for more than a day. That's enough energy savings to power the average American household for almost 2,000 years, or supply Knoxville, TN, home to the Dura-Line corporate offices, for just over a week.

Dura-Line shall extend a reel credit to all Verizon locations for each steel reel returned to Dura-Line per the following requirements for which a credit will be issued in check form. Verizon's representative shall assure through visual inspection that all reels to be returned for credit shall be sent to the original supplier of the reels and that they will meet the following criteria:

- (1) The flanges and ribs are not to be broken.
  - (2) The flanges are not to be flat between spokes.
  - (3) The arbor hole is not to exhibit variation in its ovality.
  - (4) All welds are to be intact with no visible cracks or separations.
  - (5) All cross members are to be secured at all locations with bolts and lock nuts.
  - (6) In the event reels are broken down by Verizon prior to return shipment, all cross members must be included to receive credit.
- Returned reels not meeting the above requirements will not receive credit consideration and may be assessed a disposal fee.
  - Verizon's transportation representative shall have the authority to arrange for the return shipment of reels to the Dura-Line.
  - Credit shall be issued to Verizon based on the total the amount due to Verizon, less any freight costs incurred by Supplier (if applicable) for the return of Empty reels, and issue a credit to Verizon for the difference.
  - Credits will be issued via a check to Verizon.

## Acceptable Steel Reels for Return

Standard steel reel with steel staves returned in acceptable condition that can be reused.



Steel Reel  
Single Arbor Plate



8-10 spoke Construction  
Clip or Bolt-in place Stave



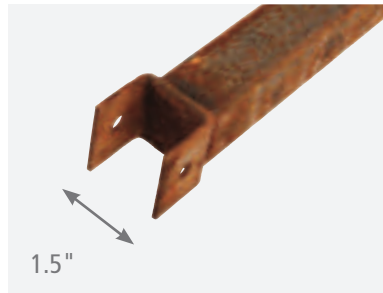
Double Arbor Plate

# Acceptable Staves

Reels cannot have one or more of the following issues to be returned:

- Bent, broken or flattened flanges (spokes)
- Bent, broken or missing staves
- Broken or cracked welds
- Reels with wooden staves

Returned reels can be received assembled or disassembled (preferred) and all flanges and staves must be returned in good condition. Assembly hardware (clips, bolts, etc) does not need to be returned.



## To arrange for Reel Returns:

call Reel Return Coordinator for RA# at:  
**(865) 223.5087**

or email:  
**[reelreturn@duraline.com](mailto:reelreturn@duraline.com)**





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