MICROTECHNOLOGY

FUTUREPATH HYBRID 3-WAY

▸ FuturePath configuration mixing a popular MicroDuct size with a common Smoothwall duct size

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

▸ Multiple pathways for one installation cost, allows flexibility and future growth

▸ No special tools or equipment needed. Installation uses the same as traditional conduit or innerduct

CONFIGURATIONS

1 ¼" SDR 11 (1) + 18/14mm MicroDucts (2)
1 ¼" SDR 11 (1) + 22/16mm MicroDucts (2)
1 ¼" SDR 13.5 (1) + 22/16mm MicroDucts (2)
2" SDR 13.5 (1) + 22/16mm MicroDucts (2)

INSTALLATION TYPES

Plow   Directional Bore
Trench   Tray
MicroTrench

STANDARD COLORS

■ Oversheath ■■ MicroDucts ■■■■■■□■■■■■■■■ Custom colors available

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STANDARD

SPECIFICATIONS/DETAILS FuturePath configuration consisting of two or more different sizes of conduit and or MicroDucts. Manufactured from flexible HDPE (High Density Polyethylene). All Smoothwall conduit dimensions meet or exceed one or more of the following: ASTM F-2160, ASTM D-3350, ASTM D-3485, NEMA TC-7, UL 651A, UL 1990, Bellcore GR-356.

FILL RATIO Choose the correct MicroDuct size based on the Outer Diameter (OD) of desired MicroCable. Dura-Line recommends a fill ratio of 50% to 75% for optimal cable placement performance. Several factors impact jetting distance including the condition of route, bends, and equipment.

CONDUIT MARKINGS Permanent marking along FuturePath includes: material, relevant standards, production info, and sequential feet or meter markings. Custom options available.

CO-EXTRUDED LINING SILICORE® ULF (Ultra-Low Friction) is co-extruded inside the HDPE wall creating a slick, permanent, interior lining. SILICORE® ULF exhibits no loss in performance over time or in extreme temperature conditions.

INTERNAL RIBS Standard on MicroDucts, available as an option in the Conduits

LOCATE WIRE Available with or without a 20 AWG insulated copper wire

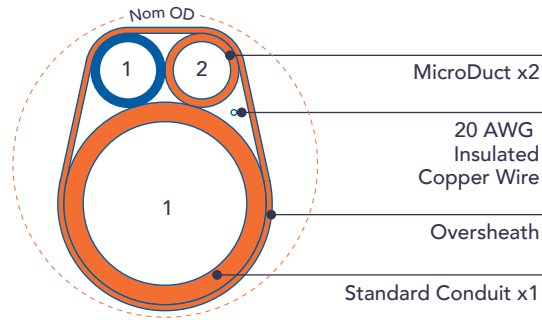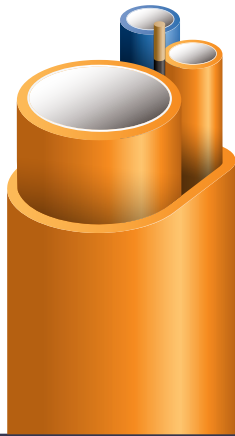**RIP CORDS** For easy opening of the oversheath

FEATURES

◎ dura·line
An Orbia Connectivity Solutions business.

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TL9000

9001 ISO REGISTERED

FUTUREPATH HYBRID 3-WAY TECHNICAL SPECIFICATIONS

Nom OD

1 | 2 — MicroDuct x2

20 AWG Insulated Copper Wire

1 — Oversheath

Standard Conduit x1

DUCT TYPES	MAX OD (IN)	HEIGHT (IN)	WIDTH (IN)	OVERSHEATH (IN)	WEIGHT (LB/FT)	BEND RADIUS SUP (IN)	BEND RADIUS UNSUP (IN)	SWPS (LB)
1 1/4" SDR 11 + 18/14mm	2.54	2.46	1.80	0.070	0.644	38	64	3,500
1 1/4" SDR 11 + 22/16mm	2.68	2.56	1.84	0.050	0.679	28	46	3,672
1 1/4" SDR 13.5 + 22/16mm	2.68	2.56	1.84	0.050	0.893	28	46	4,801
2" SDR 13.5 + 22/16mm	3.39	3.32	2.52	0.070	1.003	63	83	5,441

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

SMOOTHWALL DUCT TECHNICAL SPECIFICATIONS
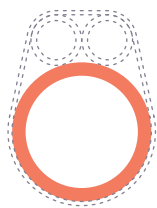
DUCT TYPE	OD (IN)	MIN ID (IN)
1 1/4" SDR 11	1.660	1.318
1 1/4" SDR 13.5	1.660	1.374
2" SDR 13.5	2.375	1.981

MICRODUCT TECHNICAL SPECIFICATIONS
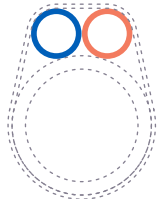
MICRODUCT SIZE	OD (MM/IN)	MIN ID (MM/IN)
18/14mm	18/0.71	13.6/0.54
22/16mm	22/0.87	15.4/0.61

FUTUREPATH 2-WAY TECHNICAL SPECIFICATIONS

Nom OD — Oversheath
Rip Cord
MicroDuct x2
20 AWG Insulated Copper Wire
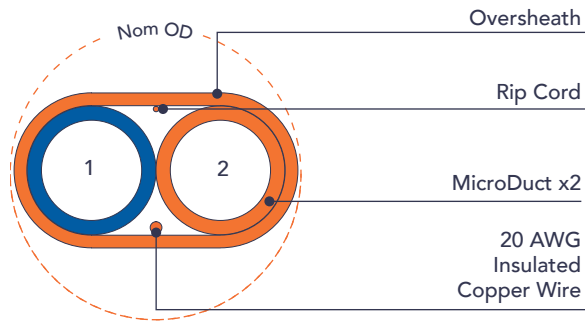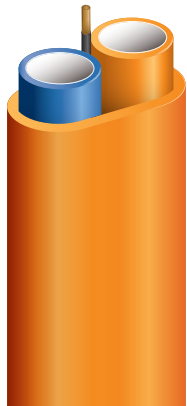
MICRODUCT OD/ID (MM)	NOM OD (IN)	MICRODUCT MIN ID (MM)	MICRODUCT MIN ID (IN)	OVERSHEATH (IN)	WEIGHT (LB/FT)	BEND RADIUS SUP* (IN)	BEND RADIUS UNSUP* (IN)	SWPS† (LBS)
5/3.5	0.45	3.4	0.13	0.030	0.025	7	11	133
7/4	0.65	3.7	0.15	0.050	0.067	6	10	363
8.5/6	0.77	5.9	0.23	0.050	0.075	12	19	404
10/8	0.87	8.1	0.32	0.040	0.070	9	17	373
12.7/10	1.10	9.8	0.39	0.050	0.119	11	22	635
14/10	1.19	9.8	0.39	0.040	0.149	12	24	795
16/12	1.35	11.6	0.46	0.050	0.183	14	27	976
16/13	1.35	12.8	0.50	0.050	0.153	14	27	824
18/14	1.56	13.6	0.54	0.070	0.244	16	31	1,316
22/16	1.82	15.4	0.61	0.070	0.333	18	36	1,788
27/20	2.27	20.7	0.81	0.050	0.374	33	55	2,042

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