

MICROTECHNOLOGY

FUTUREPATH

- ▶ MicroDucts factory bundled with a polyethylene oversheath
- ▶ 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
- ▶ Multiple configurations available

INSTALLATION TYPES

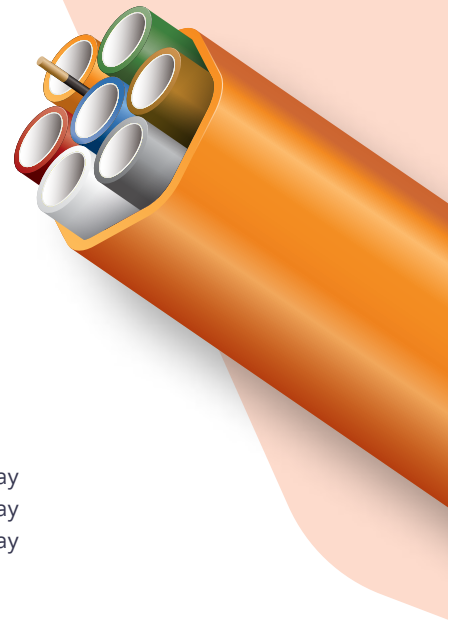
Subdivided Conduit	Plow
Directional Bore	Tray
Overrides	Trench
MicroTrench	

CONFIGURATIONS

2-way	7-way	12-way
3-way	8-way	19-way
4-way	10-way	24-way

OVERSHEATH & MICRODUCT COLORS


 or custom colors with optional stripes



FEATURES

STANDARD

SPECIFICATIONS/DETAILS FuturePath is a unit of bundled MicroDucts. Manufactured from flexible HDPE (High Density Polyethylene)

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. With a coefficient of friction 60% lower than standard HDPE conduit without the aid of wet lubricants, SILICORE® ULF exhibits no loss in performance over time or in extreme temperature conditions.

INTERNAL RIBS Standard (except 3.5mm ID MicroDucts which are designed with a standard smooth interior)

LOCATE WIRE Includes a 20 AWG insulated copper wire

RIP CORDS For easy opening of the oversheath

OPTIONS

THICKER OVERSHEATH Available in most configurations to meet your needs for more rugged projects



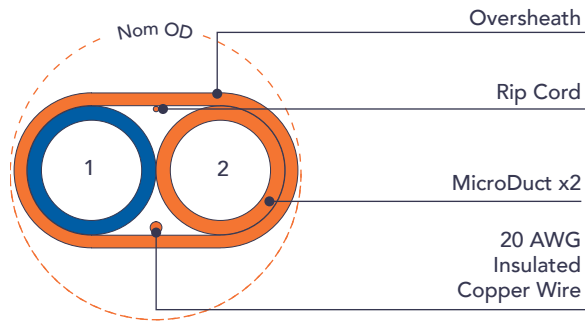
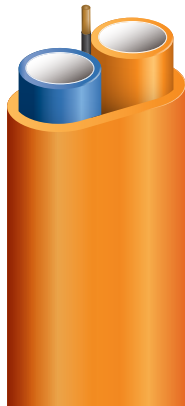
An Orbia Connectivity Solutions business.

+1 800 847 7661
WWW.DURALINE.COM

TL9000



FUTUREPATH 2-WAY TECHNICAL SPECIFICATIONS



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

† 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.



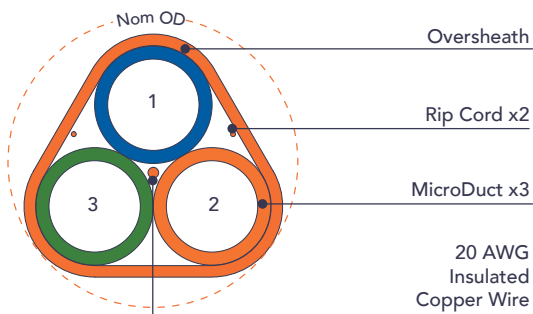
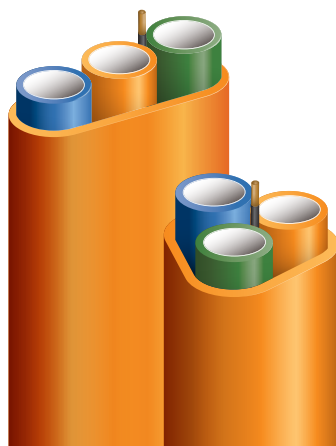
An Orbia Connectivity Solutions business.

+1 800 847 7661
WWW.DURALINE.COM

TL9000



FUTUREPATH 3-WAY TECHNICAL SPECIFICATIONS



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	0.51	3.4	0.13	0.040	0.040	7	11	220
7/4	0.66	3.7	0.15	0.030	0.073	10	17	395
8.5/6	0.85	5.9	0.23	0.060	0.110	11	19	593
10/8	0.99	8.1	0.32	0.070	0.128	9	18	684
10/8 (Flat)	1.29	8.1	0.32	0.050	0.116	19	32	619
12.7/10	1.14	9.8	0.39	0.070	0.191	12	24	1,021
14/10	1.25	9.8	0.39	0.030	0.193	19	31	1,026
16/12	1.49	11.6	0.46	0.070	0.292	15	30	1,559
16/12 (Flat)	1.98	11.6	0.46	0.050	0.265	20	40	1,412
16/13	1.49	12.8	0.50	0.070	0.247	20	33	1,331
16/13 (Flat)	1.98	12.8	0.50	0.050	0.220	20	40	1,184
18/14	1.67	13.6	0.54	0.070	0.330	22	37	1,776
18/14 (Flat)	2.23	13.6	0.54	0.050	0.306	22	45	1,645
22/16	1.79	15.4	0.61	0.050	0.413	18	36	2,111
22/18	2.01	18.0	0.71	0.070	0.409	26	44	2,235
27/20	2.37	20.7	0.81	0.050	0.532	31	52	2,847

* 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



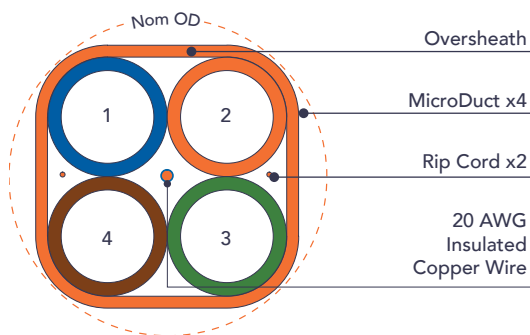
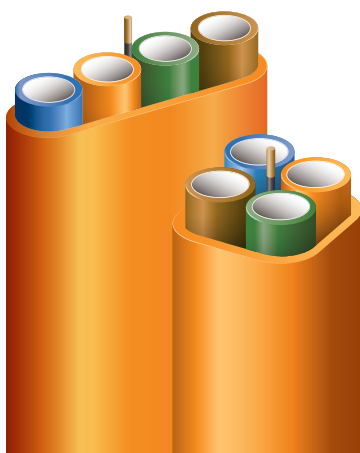
An Orbia Connectivity Solutions business.

+1 800 847 7661
WWW.DURALINE.COM

TL9000



FUTUREPATH 4-WAY TECHNICAL SPECIFICATIONS



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)	SWPST† (LBS)
5/3.5	0.56	3.4	0.13	0.040	0.050	7	12	276
7/4	0.73	3.7	0.15	0.030	0.094	11	18	508
8.5/6	0.93	5.9	0.23	0.060	0.136	12	20	733
10/8	1.04	8.1	0.32	0.040	0.120	9	17	635
12.7/10	1.34	9.8	0.39	0.070	0.236	13	27	1,260
14/10	1.47	9.8	0.39	0.070	0.320	13	25	1,709
16/12	1.66	11.6	0.46	0.070	0.368	17	33	1,963
16/13	1.65	12.8	0.50	0.070	0.308	25	41	1,658
18/14	1.86	13.6	0.54	0.070	0.417	19	37	2,243
22/16	2.23	15.4	0.61	0.070	0.613	28	47	2,840
22/18	2.17	18.0	0.71	0.040	0.436	33	54	2,326
27/20	2.68	20.7	0.81	0.070	0.751	40	67	4,024

* 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



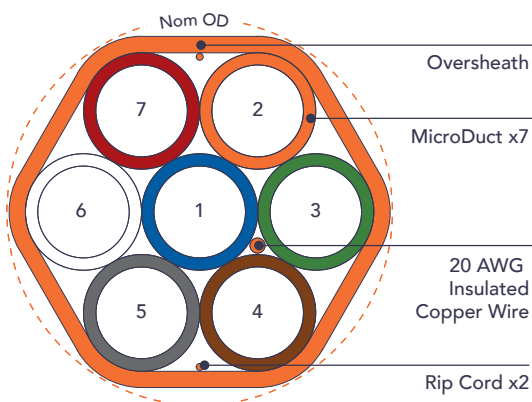
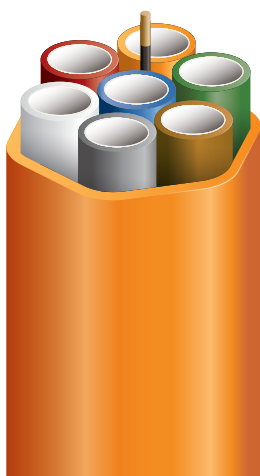
An Orbia Connectivity Solutions business.

+1 800 847 7661
WWW.DURALINE.COM

TL9000



FUTUREPATH 7-WAY TECHNICAL SPECIFICATIONS



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)	SWPSt (LBS)
5/3.5	0.67	3.4	0.13	0.040	0.075	7	13	409
7/4	0.93	3.7	0.15	0.050	0.174	14	23	941
8.5/6	1.13	5.9	0.23	0.060	0.207	16	26	1,112
10/8	1.29	8.1	0.32	0.050	0.204	13	26	1,080
12.7/10	1.64	9.8	0.39	0.070	0.360	16	33	1,926
14/10	1.77	9.8	0.39	0.050	0.465	18	35	2,474
16/12	2.03	11.6	0.46	0.070	0.579	20	40	3,079
16/13	2.03	12.8	0.50	0.070	0.471	20	41	2,530
18/14	2.27	13.6	0.54	0.070	0.656	31	52	3,522
22/16	2.74	15.4	0.61	0.070	1.047	38	63	5,588
22/18	2.74	18.0	0.71	0.070	0.816	38	63	4,259
27/20	2.97	20.7	0.81	0.050	1.126	49	81	6,013

* 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



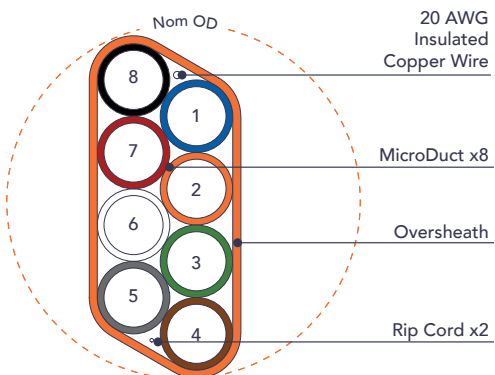
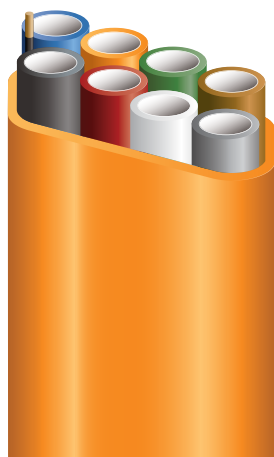
An Orbia Connectivity Solutions business.

+1 800 847 7661
WWW.DURALINE.COM

TL9000



FUTUREPATH 8-WAY TECHNICAL SPECIFICATIONS



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)
7/4	1.38	3.7	0.15	0.050	0.203	9	16	1,099
16/12	2.98	11.6	0.46	0.070	0.673	45	76	3,580

* 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



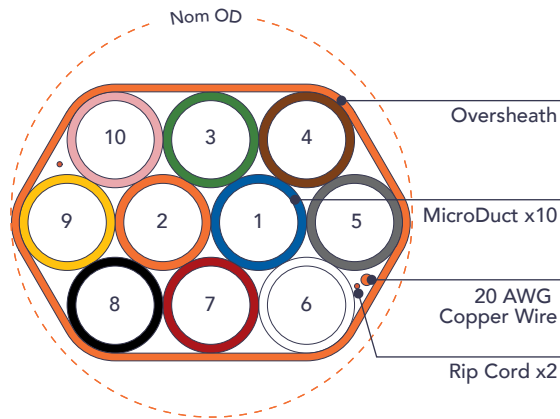
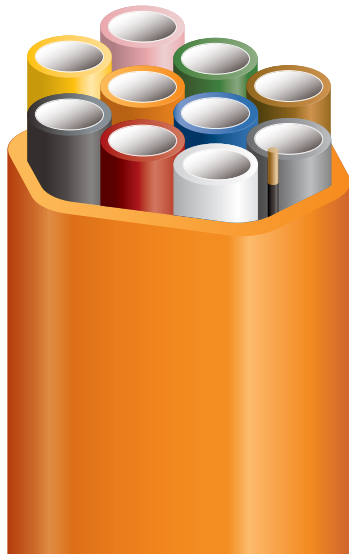
An Orbia Connectivity Solutions business.

+1 800 847 7661
WWW.DURALINE.COM

TL9000



FUTUREPATH 10-WAY TECHNICAL SPECIFICATIONS



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)
18/14	2.98	13.6	0.54	0.070	0.895	31	52	4,801
22/18	3.60	18.0	0.71	0.070	1.114	54	90	5,946

* 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



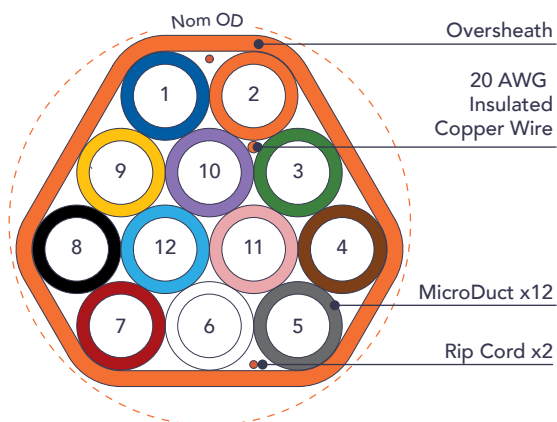
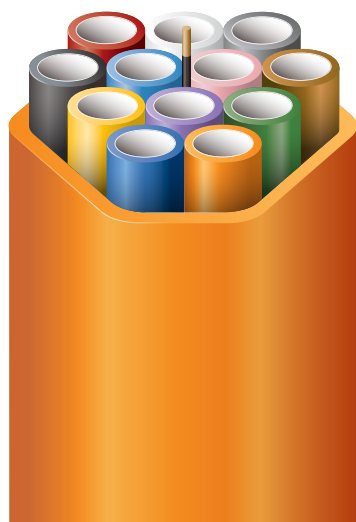
An Orbia Connectivity Solutions business.

+1 800 847 7661
WWW.DURALINE.COM

TL9000



FUTUREPATH 12-WAY TECHNICAL SPECIFICATIONS



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	0.89	3.4	0.13	0.050	0.123	9	18	674
7/4	1.24	3.7	0.15	0.050	0.277	17	28	1,498
8.5/6	1.48	5.9	0.23	0.060	0.322	20	33	1,727
12.7/10	2.14	9.8	0.39	0.070	0.566	20	39	3,004
14/10	2.38	9.8	0.39	0.070	0.800	32	53	4,255

* 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



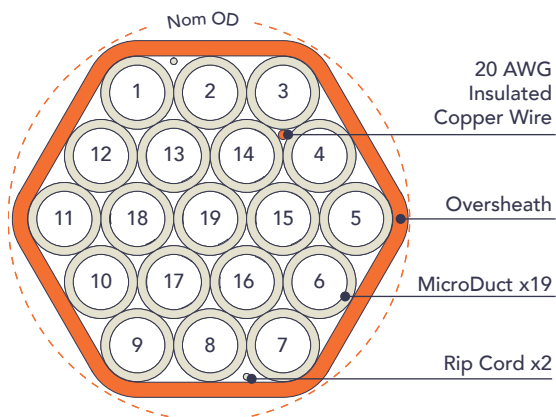
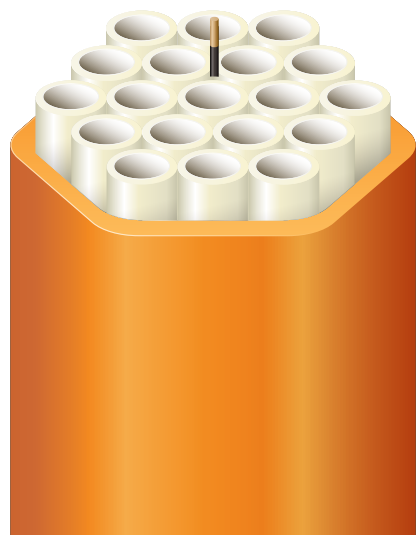
An Orbia Connectivity Solutions business.

+1 800 847 7661
WWW.DURALINE.COM

TL9000



FUTUREPATH 19-WAY TECHNICAL SPECIFICATIONS



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)	SWPST† (LBS)
5/3.5	1.07	3.4	0.13	0.040	0.168	16	27	920
7/4	1.48	3.7	0.15	0.050	0.412	22	37	2,227
8.5/6	1.80	5.9	0.23	0.060	0.472	24	41	2,528
10/8	2.09	8.1	0.32	0.060	0.489	21	42	2,577
12.7/10	2.64	9.8	0.39	0.070	0.826	24	47	4,373

* 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



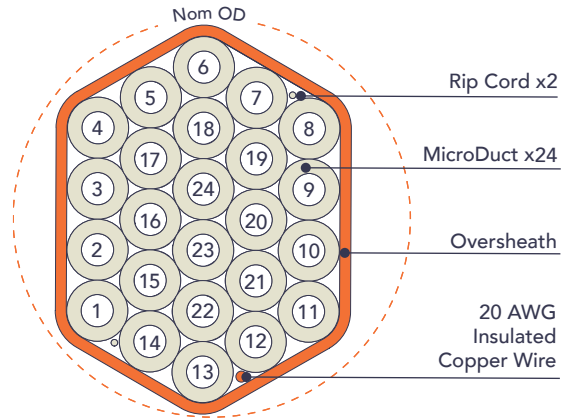
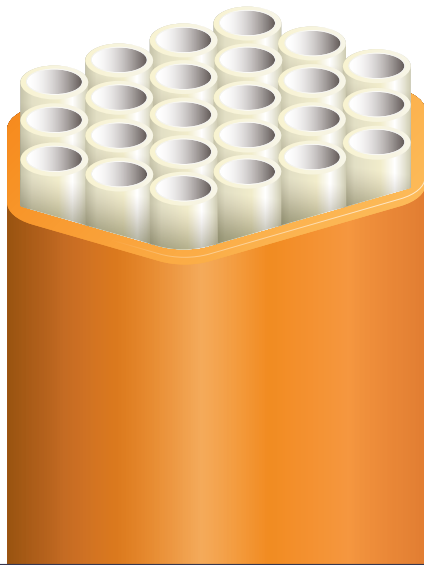
An Orbia Connectivity Solutions business.

+1 800 847 7661
WWW.DURALINE.COM

TL9000



FUTUREPATH 24-WAY TECHNICAL SPECIFICATIONS



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	1.27	3.4	0.13	0.040	0.202	14	24	1,120
7/3.5	1.76	3.7	0.15	0.050	0.527	26	44	2,879
7/4	1.76	3.7	0.15	0.050	0.509	20	33	2,751
8.5/6	2.13	5.9	0.23	0.060	0.579	24	41	3,099

* 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



An Orbia Connectivity Solutions business.

+1 800 847 7661
WWW.DURALINE.COM

TL9000

