

# STANDARD UL 651A

- ETL Listed to UL 651A, used per NEC Article 353
- Manufactured from flexible HDPE, makes gradual bends without special equipment
- Excellent low temperature properties, for better handling in cold climates
- Outstanding ductility and strength, protects cables from shifting ground, rock and root impingement, increasing UG cable life
- Provides a permanent pathway, simplifies future cable repair and replacement

## INSTALLATION TYPES

Existing Conduit  
Directional Bore  
Concrete Encased  
Plow

## SIZE RANGE AVAILABLE

0.5"	1.5"	4.0"
0.75"	2.0"	5.0"
1.0"	2.5"	6.0"
1.25"	3.0"	

## WALL TYPES

EPEC-B/SDR 13.5  
EPEC-40/SCH 40  
EPEC-80/SCH 80

## STANDARD COLORS

■ UV Stabilized

## STRIPE COLORS



FEATURES

### STANDARD

**FOOTAGE MARKINGS** Sequential foot or meter markings. Custom print streams available.

**UV STABILIZATION** package added.

**STANDARD** Meets or exceeds the HDPE resin requirements per ASTM D 3350 UV Black (minimum carbon black loading of 2%), Sequential footage markings, permanent ink jet or indent print, tested and listed by Intertek Laboratories (ETL) to assure compliance with UL 651A, certified by Dura-Line to comply with all UL 651A property and testing requirements.

**PACKAGING** Long continuous lengths on reels or coils. Stick lengths of 40' or 50'.

### OPTIONS

**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.

**PREINSTALLED TAPE** Factory pre-installed Bull-Line™ Pull Tape with EVEN-LOAD™, ensures extra slack at any access point throughout the reel. Available 500lb - 6,000lb tensile strength or locatable.

**EXTERNAL STRIPES** can be added from our standard color offering to facilitate visual identification.



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**UL 651A TECHNICAL SPECIFICATIONS (NOTES NEXT PAGE)**

	WALL TYPE	NOM OD (IN)	OD TOLERANCE +/-	MIN WALL (IN)	WALL TOLERANCE +	AVG ID (IN)	MIN ID (IN)	WEIGHT (LB/FT)	BEND RADIUS SUP (IN)	BEND RADIUS UNSUP (IN)	SWPS (LB)
1/2"	EPEC-B/SDR 13.5	0.840	0.004	0.062	0.020	0.696	0.676	0.072	8	16	365
	EPEC-40/SCH 40	0.840	0.004	0.109	0.020	0.602	0.582	0.111	8	16	601
	EPEC-80/SCH 80	0.840	0.004	0.147	0.020	0.526	0.506	0.139	8	16	768
3/4"	EPEC-B/SDR 13.5	1.050	0.005	0.078	0.020	0.874	0.854	0.110	10	20	570
	EPEC-40/SCH 40	1.050	0.005	0.113	0.020	0.804	0.784	0.148	10	20	798
	EPEC-80/SCH 80	1.050	0.005	0.154	0.020	0.722	0.702	0.188	10	20	1,040
1"	EPEC-B/SDR 13.5	1.315	0.007	0.097	0.020	1.101	1.081	0.167	13	26	894
	EPEC-40/SCH 40	1.315	0.007	0.133	0.020	1.029	1.009	0.217	13	26	1,340
	EPEC-80/SCH 80	1.315	0.007	0.179	0.021	0.936	0.915	0.276	13	26	1,533
1 1/4"	EPEC-B/SDR 13.5	1.660	0.008	0.123	0.020	1.394	1.374	0.263	17	34	1,425
	EPEC-40/SCH 40	1.660	0.008	0.140	0.020	1.360	1.340	0.293	17	34	1,604
	EPEC-80/SCH 80	1.660	0.008	0.191	0.023	1.255	1.232	0.382	17	34	2,116
1 1/2"	EPEC-B/SDR 13.5	1.900	0.010	0.141	0.020	1.598	1.578	0.342	19	38	1,867
	EPEC-40/SCH 40	1.900	0.010	0.145	0.020	1.590	1.570	0.350	19	38	1,919
	EPEC-80/SCH 80	1.900	0.010	0.200	0.024	1.476	1.452	0.463	19	38	2,564
2"	EPEC-B/SDR 13.5	2.375	0.012	0.176	0.021	2.002	1.981	0.528	24	48	2,917
	EPEC-40/SCH 40	2.375	0.012	0.154	0.020	2.047	2.027	0.469	24	48	2,579
	EPEC-80/SCH 80	2.375	0.012	0.218	0.026	1.913	1.887	0.641	24	48	2,545
2 1/2"	EPEC-B/SDR 13.5	2.875	0.014	0.213	0.026	2.423	2.397	0.775	29	58	4,274
	EPEC-40/SCH 40	2.875	0.014	0.203	0.024	2.445	2.421	0.740	29	58	4,090
	EPEC-80/SCH 80	2.875	0.014	0.276	0.033	2.290	2.257	0.978	29	58	5,409
3"	EPEC-B/SDR 13.5	3.500	0.018	0.259	0.031	2.951	2.920	1.146	39	78	6,335
	EPEC-40/SCH 40	3.500	0.018	0.216	0.026	3.042	3.016	0.969	39	78	5,348
	EPEC-80/SCH 80	3.500	0.018	0.300	0.036	2.864	2.828	1.310	39	78	7,238
4"	EPEC-B/SDR 13.5	4.500	0.023	0.333	0.040	3.794	3.754	1.895	50	100	10,472
	EPEC-40/SCH 40	4.500	0.023	0.237	0.028	3.998	3.970	1.380	50	100	7,618
	EPEC-80/SCH 80	4.500	0.023	0.337	0.040	3.786	3.746	1.914	50	100	10,578
5"	EPEC-B/SDR 13.5	5.563	0.028	0.412	0.049	4.690	4.641	2.896	61	122	16,004
	EPEC-40/SCH 40	5.563	0.028	0.258	0.028	5.016	4.985	1.872	61	122	10,320
	EPEC-80/SCH 80	5.563	0.028	0.375	0.045	4.768	4.723	2.657	61	122	14,669
6"	EPEC-B/SDR 13.5	6.625	0.033	0.491	0.059	5.584	5.525	4.112	73	146	22,697
	EPEC-40/SCH 40	6.625	0.033	0.280	0.034	6.031	5.997	2.432	73	146	13,395
	EPEC-80/SCH 80	6.625	0.033	0.432	0.052	5.709	5.657	3.656	73	146	20,172



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## UL 651A NOTES

- Bend Radius

½" through 2 ½"	Supported Bend Radius 10 times the OD	Unsupported Bend Radius 20 times the OD
3" through 6"	Supported Bend Radius 11 times the OD	Unsupported Bend Radius 22 times the OD
- During cable placement, large sweeping bends are recommended over tighter bends. Pre-formed sweeps are recommended for conduit sizes 8" through 16" diameters.
- SWPS (Safe Working Pull Strength) is calculated using a 25% safety factor with the minimum resin tensile strength of 3,000 psi, the average OD and average wall thickness.
- Internal or external ribs are in addition to the average wall and for determining OD and ID dimensions. The average rib height to be added is 0.020".
- Add 0.016 #/ft for ribbed products 1 1/2" and less. For 2" and larger, add 0.025 #/ft.

## RESIN REQUIREMENTS PER ASTM D 3350, HAVING A MINIMUM CELL CLASSIFICATION OF 334420 C FOR BLACK AND E FOR COLOR

CELL #	PROPERTY	DESCRIPTION MINIMUM REQUIREMENTS	ACCEPTABLE TEST METHODS
3	Resin Density	0.940-0.947 g/cm3	ASTM D 1505 or ASTM D 792 or ASTM 4883
3	Melt Index	<0.4 grams/10 minutes	ASTM D 1238
4	Flexural Modulus	80,000 psi	ASTM D 790
4	Tensile Strength	3,000 psi	ASTM D 638
-	Elongation	400%	ASTM D 638
8	Slow Crack Growth Resistance	Condition B, 10% Igepal/H2O solution, F50>24hrs	ASTM D 1693
0	Hydrostatic Design Basis	Non-pressure rated	ASTM D 2837
C	Black UV Resistance	Added carbon black @ 2% by weight	ASTM D 4218
OR E	Color UV Resistance	Color with UV inhibitor and antioxidant	ASTM D 4238