

SPECIALTY

CABLE-IN-CONDUIT UL1990

- ▶ Cable-in-Conduit is available in ranges 1/2" to 3" diameters
- ▶ Manufactured from flexible HDPE, makes gradual bends without special equipment
- ▶ Continuous lengths reduce joining costs
- ▶ Excellent low-temperature properties, allows installation in cold climates
- ▶ Outstanding long-term cable protection from shifting ground, rock, and root impingement
- ▶ Provides a permanent pathway, simplifies future cable repairs or replacement

INSTALLATION TYPES

Direct Burial

SIZE RANGE

1/2"	1 1/2"
3/4"	2"
1"	2 1/2"
1 1/4"	3"

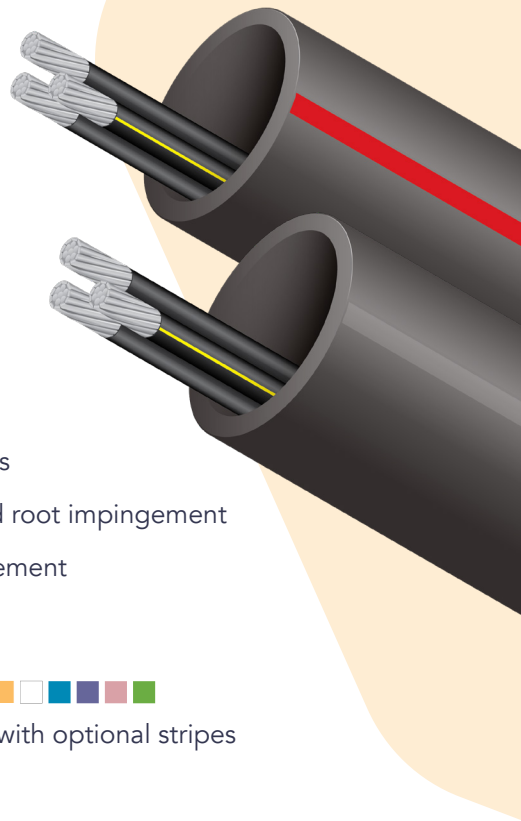
WALL TYPES

EPEC-11
EPEC-13.5
SCH 40
SCH 80

COLORS



or custom colors with optional stripes



STANDARD

MATERIAL Manufactured from flexible HDPE (High Density Polyethylene)

SPECIFICATIONS 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

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

OPTIONS

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.

PRE-INSTALLED CABLE Single or multiple cables may be pre-installed. Typical cable components are: Service Drops, Fiber, Coaxial, 600 Volt Al, 600 Volt Cu, Medium Voltage. Custom options available.

FEATURES



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SMOOTHWALL TECHNICAL SPECIFICATIONS (additional sizes next page)

SIZE	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)	SWP5 (LB)
1/2"	EPEC-13.5	0.840	0.004	0.062	0.020	0.696	0.676	0.072	8	16	365
	EPEC-11	0.840	0.004	0.076	0.020	0.668	0.487	0.084	8	16	458
	SCH 40	0.840	0.004	0.109	0.020	0.602	0.582	0.111	8	16	601
	SCH 80	0.840	0.004	0.147	0.020	0.526	0.506	0.139	8	16	768
3/4"	EPEC-13.5	1.050	0.004	0.078	0.020	0.874	0.854	0.110	10	20	570
	EPEC-11	1.050	0.004	0.095	0.020	0.840	0.820	0.128	10	20	701
	SCH 40	1.050	0.004	0.113	0.020	0.804	0.784	0.148	10	20	798
	SCH 80	1.050	0.004	0.154	0.020	0.722	0.702	0.188	10	20	1,040
1"	EPEC-13.5	1.050	0.004	0.078	0.020	0.874	0.854	0.110	10	20	570
	EPEC-11	1.050	0.004	0.095	0.020	0.840	0.820	0.128	10	20	701
	SCH 40	1.050	0.004	0.113	0.020	0.804	0.784	0.148	10	20	798
	SCH 80	1.050	0.004	0.154	0.020	0.722	0.702	0.188	10	20	1,040
1 1/4"	EPEC-13.5	1.050	0.004	0.078	0.020	0.874	0.854	0.110	10	20	570
	EPEC-11	1.050	0.004	0.095	0.020	0.840	0.820	0.128	10	20	701
	SCH 40	1.050	0.004	0.113	0.020	0.804	0.784	0.148	10	20	798
	SCH 80	1.050	0.004	0.154	0.020	0.722	0.702	0.188	10	20	1,040
1 1/2"	EPEC-13.5	1.900	0.006	0.141	0.020	1.598	1.578	0.342	19	38	1,867
	EPEC-11	1.900	0.006	0.173	0.021	1.533	1.512	0.408	19	38	2,232
	SCH 40	1.900	0.006	0.145	0.020	1.590	1.570	0.350	19	38	1,919
	SCH 80	1.900	0.006	0.200	0.024	1.476	1.452	0.463	19	38	2,564
2"	EPEC-13.5	2.375	0.006	0.176	0.021	2.002	1.981	0.528	24	48	2,917
	EPEC-11	2.375	0.006	0.216	0.026	1.917	1.891	0.636	24	48	3,474
	SCH 40	2.375	0.006	0.154	0.020	2.047	2.027	0.469	24	48	2,579
	SCH 80	2.375	0.006	0.218	0.026	1.913	1.887	0.641	24	48	2,545
2 1/2"	EPEC-13.5	2.875	0.007	0.213	0.026	2.423	2.397	0.775	29	58	4,274
	EPEC-11	2.875	0.007	0.261	0.031	2.322	2.291	0.930	29	58	5,087
	SCH 40	2.875	0.007	0.203	0.024	2.445	2.421	0.740	29	58	4,090
	SCH 80	2.875	0.007	0.276	0.033	2.290	2.257	0.978	29	58	5,409



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SMOOTHWALL (SDR/SCH) TECHNICAL SPECIFICATIONS (additional sizes previous page)

SIZE	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)
3"	EPEC-13.5	3.500	0.008	0.259	0.031	2.951	2.920	1.146	39	78	6,335
	EPEC-11	3.500	0.008	0.318	0.038	2.826	2.788	1.380	39	78	7,535
	SCH 40	3.500	0.008	0.216	0.026	3.042	3.016	0.969	39	78	5,348
	SCH 80	3.500	0.008	0.300	0.036	2.864	2.828	1.310	39	78	7,238

* 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

ASTM D-3350 RESIN REQUIREMENTS

having a minimum cell classification of PE334480 C for black and E for color

CELL #	PROPERTY	DESCRIPTION MINIMUM REQUIREMENTS	ACCEPTABLE TEST METHODS
3	Resin Density	0.940-0.947 g/cm ³	ASTM D-1505 or ASTM D-792 or ASTM D-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/H ₂ O solution, F10 > 96hr	ASTM D-1693
0	Hydrostatic Design Basis	Non-pressure rated	ASTM D-2837
C	Black UV Resistance	Added carbon black @ 2-4% by weight	ASTM D-4218
or E	Color UV Resistance	Color with UV inhibitor and antioxidant	ASTM D-4238



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