

STANDARD

NEMA TC-7

- Meets all standards as outlined in the Polymer Raceway Products Section of NEMA TC-7 in regards to electrical cable installation
- 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

Existing Conduit
Plow
Directional Bore

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-11 (SDR-11)
EPEC-13.5 (SDR 13.5)
EPEC-17 (SDR 17)
EPEC-40 (SCH 40)
EPEC-80 (SCH 80)

STRIPE COLORS



FEATURES

STANDARD

PRODUCT SPECIFICATIONS All Smoothwall conduit dimensions meets or exceeds one or more of the following specifications: ASTM F-2160, ASTM D-3485, NEMA TC-7, UL 651A, UL 1990, Bellcore GR-356

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

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

INTERNAL RIBS Internal straight ribs greatly reduce friction for longer, faster pulls

NEMA TC-7 TECHNICAL SPECIFICATIONS

	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-11 (SDR 11)	0.840	0.004	0.076	0.020	0.668	0.648	0.084	8	16	440
	EPEC-13.5 (SDR 13.5)	0.840	0.004	0.062	0.020	0.696	0.676	0.072	8	16	365
	EPEC-17 (SDR 17)	-	-	-	-	-	-	-	-	-	-
	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-11 (SDR 11)	1.050	0.005	0.095	0.020	0.840	0.820	0.128	10	20	687
	EPEC-13.5 (SDR 13.5)	1.050	0.005	0.078	0.020	0.874	0.854	0.110	10	20	570
	EPEC-17 (SDR 17)	1.050	0.005	0.062	0.020	0.906	0.886	0.084	10	20	460
	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-11 (SDR 11)	1.315	0.007	0.120	0.020	1.055	1.035	0.199	13	26	1,078
	EPEC-13.5 (SDR 13.5)	1.315	0.007	0.097	0.020	1.101	1.081	0.167	13	26	894
	EPEC-17 (SDR 17)	1.315	0.007	0.077	0.020	1.141	1.121	0.138	13	26	722
	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-11 (SDR 11)	1.660	0.008	0.151	0.020	1.338	1.318	0.312	17	34	1,717
	EPEC-13.5 (SDR 13.5)	1.660	0.008	0.123	0.020	1.394	1.374	0.263	17	34	1,425
	EPEC-17 (SDR 17)	1.660	0.008	0.098	0.020	1.440	1.424	0.217	17	34	1,150
	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-11 (SDR 11)	1.900	0.010	0.173	0.021	1.533	1.512	0.408	19	38	2,249
	EPEC-13.5 (SDR 13.5)	1.900	0.010	0.141	0.020	1.598	1.578	0.342	19	38	1,867
	EPEC-17 (SDR 17)	1.900	0.010	0.112	0.020	1.656	1.636	0.281	19	38	1,507
	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-11 (SDR 11)	2.375	0.012	0.216	0.026	1.917	1.891	0.636	24	48	3,515
	EPEC-13.5 (SDR 13.5)	2.375	0.012	0.176	0.021	2.002	1.981	0.528	24	48	2,917
	EPEC-17 (SDR 17)	2.375	0.012	0.140	0.020	2.075	2.055	0.432	24	48	2,355
	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

NEMA TC-7 TECHNICAL SPECIFICATIONS

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2 1/2"	EPEC-11 (SDR 11)	2.875	0.014	0.261	0.031	2.322	2.291	0.930	29	58	5,151
	EPEC-13.5 (SDR 13.5)	2.875	0.014	0.213	0.026	2.423	2.397	0.775	29	58	4,274
	EPEC-17 (SDR 17)	2.875	0.014	0.169	0.020	2.517	2.497	0.625	29	58	3,450
	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-11 (SDR 11)	3.500	0.018	0.318	0.038	2.826	2.788	1.380	39	78	7,633
	EPEC-13.5 (SDR 13.5)	3.500	0.018	0.259	0.031	2.951	2.920	1.146	39	78	6,335
	EPEC-17 (SDR 17)	3.500	0.018	0.206	0.025	3.063	3.038	0.928	39	78	5,114
	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-11 (SDR 11)	4.500	0.023	0.409	0.049	3.633	3.584	2.282	50	100	12,618
	EPEC-13.5 (SDR 13.5)	4.500	0.023	0.333	0.040	3.794	3.754	1.895	50	100	10,472
	EPEC-17 (SDR 17)	4.500	0.023	0.265	0.032	3.938	3.906	1.534	50	100	8,453
	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-11 (SDR 11)	5.563	0.028	0.506	0.061	4.490	4.429	3.490	61	122	19,284
	EPEC-13.5 (SDR 13.5)	5.563	0.028	0.412	0.049	4.690	4.641	2.896	61	122	16,004
	EPEC-17 (SDR 17)	5.563	0.028	0.327	0.039	4.870	4.831	2.339	61	122	12,918
	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-11 (SDR 11)	6.625	0.033	0.602	0.072	5.349	5.277	4.944	73	146	27,349
	EPEC-13.5 (SDR 13.5)	6.625	0.033	0.491	0.059	5.584	5.525	4.112	73	146	22,697
	EPEC-17 (SDR 17)	6.625	0.033	0.390	0.047	5.798	5.751	3.324	73	146	18,321
	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

NEMA TC-7 NOTES:

- Bend Radius
 1/2" through 2 1/2" 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.