

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

Trench
Subdivided Conduit
Directional Bore
Plow

SIZE RANGE AVAILABLE

1/2"	2"	6"
3/4"	2 1/2"	8"
1"	3"	10"
1 1/4"	4"	12"
1 1/2"	5"	

WALL TYPES

EPEC-11 (SDR 11)
EPEC-13.5 (SDR 13.5)
EPEC-15.5 (SDR 15.5)
EPEC-17 (SDR 17)
EPEC-40 (SCH 40)
EPEC-80 (SCH 80)

STANDARD COLORS



FEATURES

STANDARD
MATERIAL Manufactured from flexible HDPE (High Density Polyethylene).
SPECIFICATIONS Meets all standards as outlined in the Polymer Raceway Products Section of NEMA TC-7 in regards to electrical cable installation. Also 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. Refer to Cable-In-Conduit NEMA TC7.
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 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.
PRE-INSTALLED CABLE Cable can be factory pre-installed in conduit. Refer to Cable-In-Conduit NEMA TC7.
UV PROTECTION Standard UV colorants for additional outdoor protection prior to underground installation

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-15.5 (SDR 15.5)	0.840	0.004	0.062	0.020	0.698	0.680	0.071	8	16	386
	EPEC-17 (SDR 17)	0.840	0.004	0.062	0.018	0.698	0.680	0.071	8	16	386
	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-15.5 (SDR 15.5)	1.050	0.005	0.068	0.020	0.894	0.874	0.098	10	20	536
	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-15.5 (SDR 15.5)	1.315	0.007	0.084	0.020	1.127	1.107	0.149	13	26	811
	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-15.5 (SDR 15.5)	1.660	0.008	0.107	0.020	1.426	1.406	0.234	17	34	1,276
	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-15.5 (SDR 15.5)	1.900	0.010	0.123	0.020	1.634	1.614	0.304	19	38	1,661
	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

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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)	
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-15.5 (SDR 15.5)	2.375	0.012	0.153	0.020	2.049	2.029	0.467	24	48	2,549
	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
2 1/2"	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-15.5 (SDR 15.5)	2.875	0.014	0.185	0.022	2.483	2.461	0.680	29	58	3,712
	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-15.5 (SDR 15.5)	3.500	0.018	0.226	0.027	3.021	2.994	1.011	39	78	5,520
	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-15.5 ¹ (SDR 15.5)	4.500	0.023	0.290	0.035	3.885	3.850	1.669	50	100	9,113
	EPEC-40 ¹ (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-15.5 ¹ (SDR 15.5)	5.563	0.028	0.359	0.043	4.802	4.759	2.552	61	122	13,939
	EPEC-40 ¹ (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

¹Diameter and wall types that are available in stick lengths only as diameter or wall thickness are not conducive to coiling.

(additional sizes next page)

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)
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-15.5 [†] (SDR 15.5)	6.625	0.033	0.427	0.051	5.720	5.669	3.615	73	146	19,743
	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
8"	EPEC-11 [†] (SDR 11)	8.625	0.043	0.784	0.094	6.963	6.869	8.383	155	233	46,355
	EPEC-13.5 [†] (SDR 13.5)	8.625	0.043	0.639	0.077	7.270	7.193	6.969	155	233	38,470
	EPEC-40 [†] (SCH 40)	8.625	0.043	0.322	0.039	7.942	7.903	3.661	155	233	20,158
10"	EPEC-11 [†] (SDR 11)	10.75	0.054	0.977	0.117	8.679	8.562	13.019	194	290	71,105
	EPEC-13.5 [†] (SDR 13.5)	10.75	0.054	0.796	0.096	9.062	8.966	10.821	194	290	59,098
12"	EPEC-11 [†] (SDR 11)	12.75	0.064	1.159	0.139	10.293	10.154	18.319	230	344	100,050
	EPEC-13.5 [†] (SDR 13.5)	12.75	0.064	0.944	0.113	10.749	10.636	15.214	230	344	83,094

[†]Diameter and wall types that are available in stick lengths only as diameter or wall thickness are not conducive to coiling.

NEMA TC-7 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
8"	Supported Bend Radius 18 times the OD	Unsupported Bend Radius 27 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.