

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

wall types

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

standard 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 651, UL 1990, Bellcore GR-356

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

OPTIONS

SILICORE is co-extruded with the tough HDPE jacket creating a super, slick permanent lining. SILICORE lined ducts allow for higher speed cable jetting and longer cable pulls

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



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NEMA TC-7 TECHNICAL SPECIFICATIONS

PIPE SIZE	½"	¾"	1"	1 ¼"	1 ½"	2"	2 ½"	3"	4"	5"	6"	
WALL TYPE	NOM OD (IN)	0.84	1.05	1.315	1.66	1.9	2.375	2.875	3.5	4.5	5.563	6.625
	OD TOLERANCE +/-	0.004	0.005	0.007	0.008	0.01	0.012	0.014	0.018	0.023	0.028	0.033
	BEND RADIUS SUP (IN)	8	10	13	17	19	24	29	39	50	61	73
	BEND RADIUS UNSUP (IN)	16	20	26	34	38	48	58	78	100	122	146
EPEC-11 (SDR-11)	MIN. WALL (IN)	0.076	0.095	0.119	0.151	0.173	0.216	0.261	0.318	0.409	0.506	0.602
	WALL TOLERANCE +	0.02	0.02	0.02	0.02	0.021	0.026	0.031	0.038	0.049	0.061	0.072
	AVG ID (IN)	0.668	0.84	1.057	1.338	1.53	1.917	2.322	2.826	3.633	4.491	5.348
	MIN ID (IN)	0.648	0.82	1.037	1.318	1.512	1.891	2.291	2.788	3.584	4.429	5.277
	WEIGHT (#/FT)	0.079	0.124	0.195	0.312	0.409	0.638	0.934	1.385	2.291	3.501	4.966
	SWPS [†]	440	687	1,078	1,717	2,249	3,515	5,151	7,633	12,618	19,284	27,349
EPEC-13.5 (SDR 13.5)	MIN. WALL (IN)	0.062	0.078	0.097	0.123	0.141	0.176	0.213	0.259	0.333	0.412	0.491
	WALL TOLERANCE +	0.02	0.02	0.02	0.02	0.02	0.021	0.026	0.031	0.04	0.049	0.059
	AVG ID (IN)	0.696	0.874	1.101	1.394	1.598	2.002	2.423	2.951	3.794	4.689	5.585
	MIN ID (IN)	0.676	0.854	1.081	1.374	1.578	1.981	2.397	2.92	3.754	4.641	5.525
	WEIGHT (#/FT)	0.066	0.104	0.162	0.259	0.34	0.53	0.777	1.151	1.902	2.909	4.126
	SWPS [†] (LBS)	365	570	894	1,425	1,867	2,917	4,274	6,335	10,472	16,004	22,697
EPEC-17 (SDR 17)	MIN. WALL (IN)		0.062	0.077	0.098	0.112	0.14	0.169	0.206	0.265	0.327	0.39
	WALL TOLERANCE +		0.02	0.02	0.02	0.02	0.02	0.02	0.025	0.032	0.039	0.047
	AVG ID (IN)		0.906	1.141	1.44	1.656	2.075	2.517	3.063	3.939	4.869	5.799
	MIN ID (IN)		0.886	1.121	1.424	1.636	2.055	2.497	3.038	3.906	4.831	5.751
	WEIGHT (#/FT)		0.084	0.131	0.21	0.275	0.429	0.628	0.931	1.538	2.351	3.334
	SWPS [†] (LBS)		460	722	1,150	1,507	2,355	3,450	5,114	8,453	12,918	18,321

NEMA TC-7 TECHNICAL SPECIFICATIONS

PIPE SIZE	½"	¾"	1"	1 ¼"	1 ½"	2"	2 ½"	3"	4"	5"	6"
EPEC-40 (SCH 40) MIN. WALL (IN)	0.109	0.113	0.133	0.14	0.145	0.154	0.203	0.216	0.237	0.258	0.28
WALL TOLERANCE +	0.02	0.02	0.02	0.02	0.02	0.02	0.024	0.026	0.028	0.031	0.034
AVG ID (IN)	0.602	0.804	1.029	1.36	1.59	2.047	2.445	3.042	3.998	5.016	6.031
MIN ID (IN)	0.582	0.784	1.009	1.34	1.57	2.027	2.421	3.016	3.97	4.985	5.997
WEIGHT (#/FT)	0.109	0.145	0.215	0.291	0.349	0.469	0.744	0.973	1.387	1.882	2.443
SWPS ¹ (LBS)	601	798	1,340	1,604	1,919	2,579	4,090	5,348	7,618	10,320	13,395

EPEC-80 (SCH 80) MIN. WALL (IN)	0.147	0.154	0.179	0.191	0.2	0.218	0.276	0.3	0.337	0.375	0.432
WALL TOLERANCE +	0.02	0.02	0.021	0.023	0.024	0.026	0.033	0.036	0.04	0.045	0.052
AVG ID (IN)	0.526	0.722	0.936	1.255	1.476	1.913	2.29	2.864	3.786	4.768	5.709
MIN ID (IN)	0.506	0.702	0.915	1.232	1.452	1.887	2.257	2.828	3.746	4.723	5.657
WEIGHT (#/FT)	0.139	0.188	0.277	0.383	0.465	0.644	0.982	1.315	1.923	2.668	3.669
SWPS ¹ (LBS)	768	1,040	1,533	2,116	2,564	3,545	5,409	7,238	10,578	14,669	20,172

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
- 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.