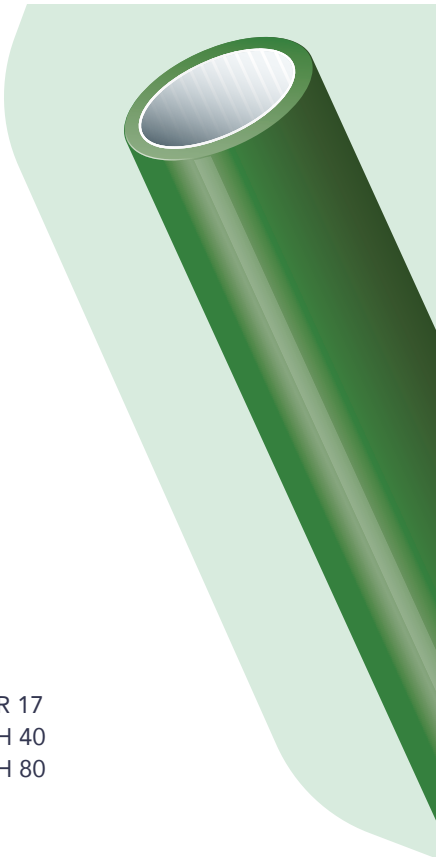


**STANDARD**

# SMOOTH OUT/ RIBBED IN



- ▶ Manufactured from flexible HDPE, makes gradual bends without special equipment
- ▶ Internal longitudinal ribbing reduces friction during cable placement
- ▶ 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**

Aerial  
Trench  
Subdivided Conduit  
Directional Bore  
Plow  
Tray

**SIZE RANGE AVAILABLE**

1"	2"	4"
1 1/4"	2 1/2"	5"
1 1/2"	3"	6"

**WALL TYPES**

SDR 9	SDR 17
SDR 11	SCH 40
SDR 13.5	SCH 80
SDR 15.5	

**STANDARD COLORS**

 or custom colors with optional stripes

**FEATURES**

**STANDARD**

**MATERIAL** Manufactured from flexible HDPE (High Density Polyethylene)

**SPECIFICATIONS** All Smooth Out/Ribbed In 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, CSA C22.2 No. 327-18

**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

**UV PROTECTANT** Available for UV exposure applications (Aerial, Lashed, or External Tray)



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**SMOOTH OUT / RIBBED IN (SDR/SCH) TECHNICAL SPECIFICATIONS** (additional sizes next pages)

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)
1"	SDR 9	1.315	0.007	0.146	0.020	0.963	0.943	0.250	13	26	1,288
	SDR 11	1.315	0.007	0.120	0.020	1.015	0.995	0.215	13	26	1,078
	SDR 13.5	1.315	0.007	0.097	0.020	1.061	1.041	0.183	13	26	894
	SDR 15.5	1.315	0.007	0.084	0.020	1.087	1.067	0.165	13	26	792
	SDR 17	1.315	0.007	0.077	0.020	1.101	1.081	0.154	13	26	722
	SCH 40	1.315	0.007	0.133	0.020	0.989	0.969	0.233	13	26	1,340
	SCH 80	1.315	0.007	0.179	0.021	0.896	0.875	0.292	13	26	1,533
1 1/4"	SDR 9	1.660	0.008	0.184	0.022	1.230	1.208	0.386	17	34	2,052
	SDR 11	1.660	0.008	0.151	0.020	1.298	1.278	0.328	17	34	1,717
	SDR 13.5	1.660	0.008	0.123	0.020	1.354	1.334	0.279	17	34	1,425
	SDR 15.5	1.660	0.008	0.107	0.020	1.386	1.366	0.250	17	34	1,234
	SDR 17	1.660	0.008	0.098	0.020	1.404	1.384	0.233	17	34	1,150
	SCH 40	1.660	0.008	0.140	0.020	1.320	1.300	0.309	17	34	1,604
	SCH 80	1.660	0.008	0.191	0.023	1.215	1.192	0.398	17	34	2,116
1 1/2"	SDR 9	1.900	0.010	0.211	0.025	1.413	1.388	0.501	19	38	2,688
	SDR 11	1.900	0.010	0.173	0.021	1.493	1.472	0.424	19	38	2,249
	SDR 13.5	1.900	0.010	0.141	0.020	1.558	1.538	0.358	19	38	1,867
	SDR 15.5	1.900	0.010	0.123	0.020	1.594	1.574	0.320	19	38	1,607
	SDR 17	1.900	0.010	0.112	0.020	1.616	1.596	0.297	19	38	1,507
	SCH 40	1.900	0.010	0.145	0.020	1.550	1.530	0.366	19	38	1,919
	SCH 80	1.900	0.010	0.200	0.024	1.436	1.412	0.479	19	38	2,564
2"	SDR 9	2.375	0.012	0.264	0.032	1.775	1.743	0.784	24	48	4,200
	SDR 11	2.375	0.012	0.216	0.026	1.877	1.851	0.661	24	48	3,515
	SDR 13.5	2.375	0.012	0.176	0.021	1.962	1.941	0.553	24	48	2,917
	SDR 15.5	2.375	0.012	0.153	0.020	2.009	1.989	0.492	24	48	2,466
	SDR 17	2.375	0.012	0.140	0.020	2.035	2.015	0.457	24	48	2,355
	SCH 40	2.375	0.012	0.154	0.020	2.007	1.987	0.494	24	48	2,579
	SCH 80	2.375	0.012	0.218	0.026	1.873	1.847	0.666	24	48	2,545

**SMOOTH OUT / RIBBED IN (SDR/SCH) TECHNICAL SPECIFICATIONS** (additional sizes and notes 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)	SWPS (LB)
2 1/2"	SDR 9	2.875	0.014	0.319	0.038	2.159	2.121	1.135	29	58	6,155
	SDR 11	2.875	0.014	0.261	0.031	2.282	2.251	0.955	29	58	5,151
	SDR 13.5	2.875	0.014	0.213	0.026	2.383	2.357	0.800	29	58	4,274
	SDR 15.5	2.875	0.014	0.185	0.022	2.443	2.421	0.705	29	58	3,592
	SDR 17	2.875	0.014	0.169	0.020	2.477	2.457	0.650	29	58	3,450
	SCH 40	2.875	0.014	0.203	0.024	2.405	2.381	0.765	29	58	4,090
	SCH 80	2.875	0.014	0.276	0.033	2.250	2.217	1.003	29	58	5,409
3"	SDR 9	3.500	0.018	0.389	0.047	2.635	2.588	1.673	39	78	9,122
	SDR 11	3.500	0.018	0.318	0.038	2.786	2.748	1.405	39	78	7,633
	SDR 13.5	3.500	0.018	0.259	0.031	2.911	2.880	1.171	39	78	6,335
	SDR 15.5	3.500	0.018	0.226	0.027	2.981	2.954	1.036	39	78	5,342
	SDR 17	3.500	0.018	0.206	0.025	3.023	2.998	0.953	39	78	5,114
	SCH 40	3.500	0.018	0.216	0.026	3.002	2.976	0.994	39	78	5,348
	SCH 80	3.500	0.018	0.300	0.036	2.824	2.788	1.335	39	78	7,238
4"	SDR 9	4.500	0.023	0.500	0.060	3.400	3.340	2.748	50	100	15,080
	SDR 11	4.500	0.023	0.409	0.049	3.593	3.544	2.307	50	100	12,618
	SDR 13.5	4.500	0.023	0.333	0.040	3.754	3.714	1.920	50	100	10,472
	SDR 15.5	4.500	0.023	0.290	0.035	3.845	3.810	1.694	50	100	8,814
	SDR 17	4.500	0.023	0.265	0.032	3.898	3.866	1.559	50	100	8,453
	SCH 40	4.500	0.023	0.237	0.028	3.958	3.930	1.405	50	100	7,618
	SCH 80	4.500	0.023	0.337	0.040	3.746	3.706	1.939	50	100	10,578
5"	SDR 9	5.563	0.028	0.618	0.074	4.213	4.139	4.186	61	122	23,045
	SDR 11	5.563	0.028	0.506	0.061	4.450	4.389	3.515	61	122	19,284
	SDR 13.5	5.563	0.028	0.412	0.049	4.650	4.601	2.921	61	122	16,004
	SDR 15.5	5.563	0.028	0.359	0.043	4.762	4.719	2.577	61	122	13,483
	SDR 17	5.563	0.028	0.327	0.039	4.830	4.791	2.364	61	122	12,918
	SCH 40	5.563	0.028	0.258	0.031	4.976	4.945	1.897	61	122	10,320
	SCH 80	5.563	0.028	0.375	0.045	4.728	4.683	2.682	61	122	14,669



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**SMOOTH OUT / RIBBED IN (SDR/SCH) TECHNICAL SPECIFICATIONS** (additional sizes next pages)

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)
1"	SDR 9	6.625	0.033	0.736	0.088	5.025	4.937	5.926	73	146	32,684
	SDR 11	6.625	0.033	0.602	0.072	5.309	5.237	4.969	73	146	27,349
	SDR 13.5	6.625	0.033	0.491	0.059	5.544	5.485	4.137	73	146	22,697
	SDR 15.5	6.625	0.033	0.427	0.051	5.680	5.629	3.640	73	146	19,123
	SDR 17	6.625	0.033	0.390	0.047	5.758	5.711	3.349	73	146	18,321
	SCH 40	6.625	0.033	0.280	0.034	5.991	5.957	2.457	73	146	13,395
	SCH 80	6.625	0.033	0.432	0.052	5.669	5.617	3.681	73	146	20,172

**SMOOTH OUT/RIBBED IN 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.
- Average internal rib height is 0.020" in addition to the MIN and AVG ID's and have been calculated in the listed values.