

STANDARD

HDPE STICKS

- Manufactured from flexible HDPE, makes gradual bends without special equipment
- HDPE Sticks can be joined with a mechanical coupler based on size and applications (Shur-Lock II, Push-Lock, E-Loc, or Split-Lock +) or joined with butt fusion
- 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
Directional Bore



SIZE RANGE AVAILABLE

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

WALL TYPES

SDR 9	SCH 40
SDR 11	SCH 80
SDR 13.5	

STANDARD COLORS

Sizes 2"– 6" 
Size 8" 



FEATURES

STANDARD

MATERIAL Manufactured from flexible HDPE (High Density Polyethylene)

SPECIFICATIONS All HDPE Stick dimensions meet or exceed one or more of the following: ASTM F-2160, ASTM D-3350, ASTM D-3485, 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.

UV PROTECTANT UV PROTECTANT available for above ground applications



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HDPE SMOOTHWALL STICKS TECHNICAL SPECIFICATIONS (sizes 5"–8" next page)

	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"	SDR 9	2.375	0.012	0.264	0.032	1.815	1.783	0.759	24	48	4,200
	SDR 11	2.375	0.012	0.216	0.026	1.917	1.891	0.636	24	48	3,515
	SDR 13.5	2.375	0.012	0.176	0.021	2.002	1.981	0.528	24	48	2,917
	SCH 40	2.375	0.012	0.154	0.020	2.047	2.027	0.469	24	48	2,579
	SCH 80	2.375	0.012	0.218	0.026	1.913	1.887	0.641	24	48	2,545
2 1/2"	SDR 9	2.875	0.014	0.319	0.038	2.199	2.161	1.110	29	58	6,155
	SDR 11	2.875	0.014	0.261	0.031	2.322	2.291	0.930	29	58	5,151
	SDR 13.5	2.875	0.014	0.213	0.026	2.423	2.397	0.775	29	58	4,274
	SCH 40	2.875	0.014	0.203	0.024	2.445	2.421	0.740	29	58	4,090
	SCH 80	2.875	0.014	0.276	0.033	2.290	2.257	0.978	29	58	5,409
3"	SDR 9	3.500	0.018	0.389	0.047	2.675	2.628	1.648	39	78	9,122
	SDR 11	3.500	0.018	0.318	0.038	2.826	2.788	1.380	39	78	7,633
	SDR 13.5	3.500	0.018	0.259	0.031	2.951	2.920	1.146	39	78	6,335
	SCH 40	3.500	0.018	0.216	0.026	3.042	3.016	0.969	39	78	5,348
	SCH 80	3.500	0.018	0.300	0.036	2.864	2.828	1.310	39	78	7,238

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
8" through 16"	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.

HDPE SMOOTHWALL STICKS TECHNICAL SPECIFICATIONS (sizes 2"–4" previous page)

	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)
4"	SDR 9	4.500	0.023	0.500	0.060	3.440	3.380	2.723	50	100	15,080
	SDR 11	4.500	0.023	0.409	0.049	3.633	3.584	2.282	50	100	12,618
	SDR 13.5	4.500	0.023	0.333	0.040	3.794	3.754	1.895	50	100	10,472
	SCH 40	4.500	0.023	0.237	0.028	3.998	3.970	1.380	50	100	7,618
	SCH 80	4.500	0.023	0.337	0.040	3.786	3.746	1.914	50	100	10,578
5"	SDR 9	5.563	0.028	0.618	0.074	4.253	4.179	4.161	61	122	23,045
	SDR 11	5.563	0.028	0.506	0.061	4.490	4.429	3.490	61	122	19,284
	SDR 13.5	5.563	0.028	0.412	0.049	4.690	4.641	2.896	61	122	16,004
	SCH 40	5.563	0.028	0.258	0.031	5.016	4.985	1.872	61	122	10,320
	SCH 80	5.563	0.028	0.375	0.045	4.768	4.723	2.657	61	122	14,669
6"	SDR 9	6.625	0.033	0.736	0.088	5.065	4.977	5.901	73	146	32,684
	SDR 11	6.625	0.033	0.602	0.072	5.349	5.277	4.944	73	146	27,349
	SDR 13.5	6.625	0.033	0.491	0.059	5.584	5.525	4.112	73	146	22,697
	SCH 40	6.625	0.033	0.280	0.034	6.031	5.997	2.432	73	146	13,395
	SCH 80	6.625	0.033	0.432	0.052	5.709	5.657	3.656	73	146	20,172
8"	SDR 9	8.625	0.043	0.958	0.115	6.593	6.479	10.001	155	233	55,397
	SDR 11	8.625	0.043	0.784	0.094	6.963	6.869	8.383	155	233	46,355
	SDR 13.5	8.625	0.043	0.639	0.077	7.270	7.193	6.969	155	233	38,470
	SCH 40	8.625	0.043	0.322	0.039	7.942	7.903	3.661	155	233	20,158

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" through 16"	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.



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HDPE SMOOTHWALL STICKS ORDER REFERENCE

STICKS	SIZE FOR ALL WALL RATIOS	BUNDLES PER TRUCK	STICKS PER TRUCK	FOOTAGE PER TRUCK
20' STICKS	2"	24	2,352	47,040
	2 1/2"	28	2,184	43,680
	3"	28	1,400	28,000
	4"	28	812	16,240
	5"	28	420	8,400
	6"	28	364	7,280
	8"	16	224	4,480
40' STICKS	2"	12	1,176	47,040
	2 1/2"	14	1,092	43,680
	3"	14	700	28,000
	4"	14	406	16,240
	5"	14	210	8,400
	6"	14	182	7,280
	8"	8	112	4,480
50' STICKS	2"	12	1,176	58,800
	2 1/2"	12	936	46,800
	3"	12	700	35,000
	4"	14	406	20,300
	5"	14	210	10,500
	6"	14	182	9,100
	8"	8	112	5,600



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