



Smoothwall Innerduct

North Coast Conduit Smoothwall is manufactured from High Density Polyethylene (HDPE) and is intended for use in underground, aerial, and innerduct applications. Smoothwall offers superior protection and serves as an ideal raceway for future cable expansion.

Smoothwall Innerduct Innerduct is available available in 1/2" through 4" diameters .

- Internal ribs
- Silicone pre-lube
- Aerial UV protection
- Pre installed pulling tapes
- A large variety of colors and striping
- Multiple lengths on a reel 1/2" through 2"

Smoothwall Innerduct is offered in custom lengths on collapsible steel reels or in straight lengths, as well as a full line of couplers and terminal connectors.

Standards

North Coast Conduit Innerduct is manufactured according to the following industry standards:

ASTM F 2160 - Solid wall High Density Polyethylene (HDPE) Conduit Based on Controlled Outside Diameter.

NEMA TC-7- Smoothwall Coilable Polyethylene Electrical Plastic Conduit.

Resin Properties

The standard resin properties used meet or exceed the minimum values listed in ASTM D 3350 for HDPE cell classification. (PE334430C or E)

ASTM Test	Description	Typical Values HDPE
D-1505	Density g/CM 3	0.941 - 0.955
D-1238	Melt Index, g/10 min Condition E	0.05 - 0.50
D- 638	Tensile strength at yield (psi)	3000 psi min.
D-1693	Environmental Stress Crack Resistance Condition B,.	F10> 96 hr.
D-790	Flexural Modulus, MPa (PSI)	80,000 min.
D-746	Brittleness Temperature	-75°C

Schedule 40 & Schedule 80

SCHEDULE 40 - ASTM F2160 / NEMA TC-7 EPEC-40					
*ETL Listed to UL 651A					
SIZE	Type	MIN WALL ¹ (in.)	AVG OD ¹ (in.)	ID SMOOTH (lb/ft.)	ID RIBBED (lb/ft.)
1/2"	SCH 40	0.109	0.840	0.111	0.117
3/4"	SCH 40	0.113	1.050	0.148	0.155
1"	SCH 40	0.133	1.315	0.218	0.229
1-1/4"	SCH 40	0.140	1.660	0.294	0.309
1-1/2"	SCH 40	0.145	1.900	0.351	0.369
2"	SCH 40	0.154	2.375	0.471	0.495
2-1/2"	SCH 40	0.203	2.875	0.744	0.781
3"	SCH 40	0.216	3.500	0.973	1.022
4"	SCH 40	0.237	4.500	1.387	1.456

SCHEDULE 80 - ASTM F2160 / NEMA TC-7 EPEC-80					
*ETL Listed to UL 651A					
SIZE	Type	MIN WALL ¹ (in.)	AVG OD ¹ (in.)	ID SMOOTH (lb/ft.)	ID RIBBED (lb/ft.)
1/2"	SCH 80	0.147	0.840	0.139	0.146
3/4"	SCH 80	0.154	1.050	0.189	0.198
1"	SCH 80	0.179	1.315	0.277	0.291
1-1/4"	SCH 80	0.191	1.660	0.383	0.402
1-1/2"	SCH 80	0.200	1.900	0.465	0.488
2"	SCH 80	0.218	2.375	0.644	0.676
2-1/2"	SCH 80	0.276	2.875	0.982	1.031
3"	SCH 80	0.300	3.500	1.315	1.381
4"	SCH 80	0.337	4.500	1.923	2.019

**ETL Listed product available upon request*

SDR Conduit Dimensions / ASTM F-2160

SIZE	SDR	MIN WALL (in.)	AVG OD (in.)	OD SMOOTH/ ID SMOOTH (lb/ft)	OD SMOOTH/ ID RIBBED (lb/ft)
SDR 7					
1/2"	7	0.12	0.84	0.119	0.125
1"	7	0.188	1.315	0.288	0.302
1-1/4"	7	0.237	1.66	0.458	0.480
1-1/2"	7	0.271	1.9	0.600	0.630
3"	7	0.5	3.5	2.037	2.139
4"	7	0.643	4.5	3.367	3.535
SDR 9					
1/2"	9	0.093	0.84	0.098	0.103
3/4"	9	0.117	1.05	0.152	0.159
1"	9	0.146	1.315	0.234	0.246
1-1/4"	9	0.184	1.66	0.370	0.388
1-1/2"	9	0.211	1.9	0.485	0.509
2"	9	0.264	2.375	0.759	0.797
3"	9	0.389	3.5	1.648	1.730
4"	9	0.5	4.5	2.722	2.859
SDR 11					
1/2"	11	0.076	0.84	0.084	0.088
3/4"	11	0.095	1.05	0.128	0.135
1"	11	0.12	1.315	0.199	0.209
1-1/4"	11	0.151	1.66	0.312	0.328
1-1/2"	11	0.173	1.9	0.408	0.428
2"	11	0.216	2.375	0.636	0.668
2-1/2"	11	0.261	2.875	0.930	0.976
3"	11	0.318	3.5	1.379	1.448
4"	11	0.409	4.5	2.281	2.395
SDR 13.5 / *ETL Listed Conforming to UL 651A					
1/2"	13.5	0.062	0.84	0.072	0.075
3/4"	13.5	0.078	1.05	0.110	0.115
1"	13.5	0.097	1.315	0.167	0.176
1-1/4"	13.5	0.123	1.66	0.263	0.276
1-1/2"	13.5	0.141	1.9	0.342	0.359
2"	13.5	0.176	2.375	0.528	0.555
2-1/2"	13.5	0.213	2.875	0.775	0.813
3"	13.5	0.259	3.5	1.146	1.203
4"	13.5	0.333	4.5	1.894	1.989
*ETL Listed product available upon request					



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SIZE	SDR	MIN WALL (in.)	AVG OD (in.)	OD SMOOTH/ ID SMOOTH (lb/ft)	OD SMOOTH/ ID RIBBED (lb/ft)
SDR 15.5					
3/4"	15.5	0.068	1.05	0.098	0.103
1"	15.5	0.084	1.315	0.149	0.156
1-1/4"	15.5	0.107	1.66	0.234	0.245
1-1/2"	15.5	0.123	1.9	0.304	0.319
2"	15.5	0.153	2.375	0.467	0.490
3"	15.5	0.226	3.5	1.010	1.061
4"	15.5	0.29	4.5	1.668	1.751
SDR 17					
1/2"	17	0.062	0.84	0.072	0.075
3/4"	17	0.062	1.05	0.091	0.096
1"	17	0.077	1.315	0.138	0.145
1-1/4"	17	0.098	1.66	0.217	0.228
1-1/2"	17	0.112	1.9	0.281	0.295
2"	17	0.14	2.375	0.432	0.453
3"	17	0.206	3.5	0.928	0.974
4"	17	0.265	4.5	1.534	1.611
SDR 21					
1"	21	0.063	1.315	0.107	0.113
2"	21	0.113	2.375	0.358	0.376
4"	21	0.214	4.5	1.255	1.318
SDR 26					
2-1/2"	26	0.111	2.875	0.419	0.203
SDR 17 TRUE					
1-1/2"	17 True	0.088	1.702	0.194	0.203
2"	17 True	0.117	2.26	0.337	0.354

Note: Ovality is a packaging condition when roundable conduit is wound into a coil or a reel. Larger conduit will have significant ovality, 10%+, and may require re-rounding in the field. For further information refer to ASTM F2160.

SIDR Conduit Dimensions

SIZE	SDR	MIN WALL (in.)	AVG ID (in.)	AVG OD (in.)	OD SMOOTH/ ID SMOOTH (lb/ft)	OD SMOOTH/ ID RIBBED (lb/ft)
SIDR 7						
3/4"	7	0.118	0.824	1.06	0.154	0.162
1"	7	0.15	1.049	1.349	0.246	0.258
1 – 1/4 "	7	0.197	1.38	1.774	0.423	0.444
1 – 1/2 "	7	0.23	1.61	2.07	0.576	0.605
2"	7	0.295	2.067	2.657	0.948	0.995
3"	7*	0.438	3.068	3.944	2.105	2.21
SIDR 9						
3/4"	9	0.092	0.824	1.008	0.12	0.126
1"	9	0.117	1.049	1.283	0.19	0.199
1 – 1/4 "	9	0.153	1.38	1.686	0.321	0.337
1 – 1/2 "	9	0.179	1.61	1.968	0.435	0.457
2"	9	0.23	2.067	2.527	0.721	0.757
4"	9*	0.447	4.026	4.92	2.742	2.879
SIDR 11.5						
1/2"	11.5	0.06	0.622	0.742	0.061	0.064
3/4"	11.5	0.072	0.824	0.968	0.094	0.099
1"	11.5	0.091	1.049	1.231	0.148	0.155
1 – 1/4 "	11.5	0.12	1.38	1.62	0.251	0.263
1 – 1/2 "	11.5	0.14	1.61	1.89	0.338	0.355
2"	11.5	0.18	2.067	2.427	0.553	0.58
4"	11.5	0.35	4.026	4.726	2.081	2.195
SIDR 15						
1/2"	15	0.06	0.622	0.742	0.061	0.064
3/4"	15	0.06	0.824	0.944	0.079	0.083
1"	15	0.07	1.049	1.189	0.115	0.121
1 – 1/4 "	15	0.092	1.38	1.564	0.193	0.203
1 – 1/2 "	15	0.107	1.61	1.824	0.258	0.271
SIDR 11.5t						
1"	11.5 t	0.087	1.02	1.194	0.138	0.145
1 – 1/4 "	11.5 t	0.109	1.27	1.488	0.211	0.221
1 – 1/2 "	11.5 t	0.13	1.52	1.78	0.297	0.312
2"	11.5 t	0.174	1.995	2.343	0.517	0.542
4"	11.5 t	0.325	4.05	4.7	1.97	2.068
SIDR 9t						
1"	9 t	0.111	1.02	1.242	0.176	0.184
1 – 1/4 "	9 t	0.128	1.27	1.526	0.248	0.26

*Wall tolerances for 4"SIDR 9 and 3" SIDR 7 taken from ASTM F 2160.

Note: Ovality is a packaging condition when roundable conduit is wound into a coil or a reel. Larger conduit will have significant ovality, 10%+, and may require re-rounding in the field. For further information refer to ASTM F2160.