



## 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 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"
- Cable-In-Conduit (Fiber Optic, Coaxial, FAA Lighting, and Electrical)
- Microduct

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

**ASTM D 2239**- Polyethylene (PE) Plastic Pipe (SIDR) Based on Controlled Inside Diameter.

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

*\*UL Rated product available upon request – (ETL Listed to UL Standard 651A - Continuous Length HDPE Conduit)*

## Standard 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



<b>SCHEDULE 40 - ASTM D2447 / F2160 / NEMA TC-7 EPEC-40</b>					
<b>*ETL Listed to UL 651A</b>					
SIZE	Type	MIN WALL <sup>1</sup> (in.)	AVG OD <sup>1</sup> (in.)	ID SMOOTH (lb/ft.)	ID RIBBED (lb/ft.)
1/2"	SCH 40	0.109	0.836	0.111	0.117
3/4"	SCH 40	0.113	1.045	0.148	0.155
1"	SCH 40	0.133	1.308	0.218	0.229
1-1/4"	SCH 40	0.140	1.652	0.294	0.309
1-1/2"	SCH 40	0.145	1.890	0.351	0.369
2"	SCH 40	0.154	2.363	0.471	0.495
2-1/2"	SCH 40	0.203	2.861	0.744	0.781
3"	SCH 40	0.216	3.482	0.973	1.022
4"	SCH 40	0.237	4.477	1.387	1.456

<b>SCHEDULE 80 - ASTM D2447 / F2160 / NEMA TC-7 EPEC-80</b>					
<b>*ETL Listed to UL 651A</b>					
SIZE	Type	MIN WALL <sup>1</sup> (in.)	AVG OD <sup>1</sup> (in.)	ID SMOOTH (lb/ft.)	ID RIBBED (lb/ft.)
1/2"	SCH 80	0.147	0.836	0.139	0.146
3/4"	SCH 80	0.154	1.045	0.189	0.198
1"	SCH 80	0.179	1.308	0.277	0.291
1-1/4"	SCH 80	0.191	1.652	0.383	0.402
1-1/2"	SCH 80	0.200	1.890	0.465	0.488
2"	SCH 80	0.218	2.363	0.644	0.676
2-1/2"	SCH 80	0.276	2.861	0.982	1.031
3"	SCH 80	0.300	3.482	1.315	1.381
4"	SCH 80	0.337	4.477	1.923	2.019

*\*ETL Listed product available upon request*