



UL 651A CONDUIT

APPLICATIONS INCLUDE:

Power Utility, Electrical, Telecom, Energy, DOT, Etc.

INSTALLATION:

Existing Conduit, Plow, Direct Burial, HDD
(Horizontal Directional Drilling).

Certified to comply with UL 651A Standards by NSF International

- Product may be striped for a number of different indicators.
- Product is manufactured in IPS (iron pipe size). Product available in 3/4" to 4" diameters.
- The material requirements for PE conduit shall be classified in accordance with ASTM Standard D 3350 "Standard Specification for Polyethylene Plastic Pipe and Fittings Materials". ASTM D 3350 defines important physical properties of HDPE materials into ranges, or cell classes, so that each property can be defined within a range that is appropriate for the application, **NSF international tested to assure compliance with UL 651A.**



For HDPE conduit according to ASTM F 2160, the High Density Polyethylene material is defined as noted below:

PROPERTY	RANGE OR MINIMUM REQUIREMENT	UNITS	CELL CLASS	TEST METHOD
Density	0.941 - 0.955	g / cc	3	ASTM D 792 or 1505
Melt Index ^a	<0.25 - 0.40	g / 10 minutes	3 or 4	ASTM D 1238
Flexural Modulus	110,000 - 160,000	Psi	4 or 5	ASTM D 790
Tensile Strength	3000 - 4000	Psi	4 or 5	ASTM D 638
Environmental Stress Crack Resistance ^b	F20 > 192	Hours (condition C)	3 or 4	ASTM D 1693
HDB	Not Defined		0,1,2,3 or 4	ASTM D 2837

*Nominal values are to be used as guidelines only; this is not a product specification and does not indicate minimum or maximum values.

PRINT LINE

The duct product shall be sequentially marked and identified along its outer length in contrasting color.

The print interval shall be every two feet and shall include the following:

MANUFACTURER'S NAME: United Poly Systems **PRODUCT SIZE/SDR**
PRODUCTION CODE (Date, Location, Period) **SPECIFICATION**
LENGTH OF CONDUIT (in feet) on reel

Optional custom print lines are available and may include customer name, project name, application etc.

HDPE - UNITED POLY SYSTEMS - 1" - IPS - SCH40 - NSF® ELECTRICAL UL 651A 3-03-19 A2 MO. LOT 3-03-



OPTIONS

Optional custom print lines are available and may include customer name, project name, application, lightning bolt etc.

Pull tape is offered in several tensile strengths. United Poly Systems standard pull tape is an 1130# strength, while other options include strengths from 200# to 2500#.

SIZES AVAILABLE:

SDR 13.5

1 1/2" through 6"

SCH 40

3/4" through 3"

SCH 80

3/4" through 4"





UL LISTED SIZES SDR 13.5 - SCH 40 - SCH 80

IPS SIZE	AVG. OD	SDR	13.5	SCH 40	SCH 80
3/4	1.05	Min Wall Avg ID Weight p/ft		0.113 0.804 0.215	0.154 0.0722 0.188
1	1.315	Min Wall Avg ID Weight p/ft		0.133 0.804 0.145	0.179 0.936 0.277
1 1/4	1.66	Min Wall Avg ID Weight p/ft		0.140 1.360 0.291	0.191 1.255 0.383
1 1/2	1.90	Min Wall Avg ID Weight p/ft	0.141 1.618 0.330	0.145 1.59 0.349	0.200 1.476 0.465
2	2.375	Min Wall Avg ID Weight p/ft	0.176 2.002 0.530	0.154 2.047 0.469	0.218 1.913 0.644
3	3.50	Min Wall Avg ID Weight p/ft	0.259 2.951 1.150	0.216 3.042 0.973	0.300 2.864 1.315
4	4.50	Min Wall Avg ID Weight p/ft	0.333 3.794 1.900		0.337 3.786 1.923
5	5.563	Min Wall Avg ID Weight p/ft	0.412 4.690 2.910		
6	6.625	Min Wall Avg ID Weight p/ft	0.491 5.584 4.130		