

Electrical and High Voltage Conduit

Power-Line is United Poly System's line of conduit used to protect electrical lines. Applications include neighborhood electrical transfer, long distance transfer, municipal applications and Department of Transportation projects where power lines are run alongside highways to power lighting, junction boxes, etc. Power-Line is UL listed for electrical use in these applications. It is available in almost any size and can be shipped on coils, reels or as sticks. It is identified by grey, red or red-striped coloring. A lighting bolt indicator is also available in the print line.

Power-Line is manufactured in IPS (Iron Pipe Size) ¾- to 16-in. diameter and DIPS (Ductile Iron Pipe Size) 4- to 16-in. diameter.

The material requirements for Power-Line meet or exceed ASTM Standard D3350 "Standard Specification for Polyethylene Plastic Pipe and Fittings Materials." ASTM D3350 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. direct burial or HDD (horizontal directional drilling) installation methods.



Print Line Information

Power-Line is sequentially marked and identified along its outer length in contrasting color.

The print interval is every two feet and includes the following:

MANUFACTURER'S NAME: United Poly Systems PRODUCT SIZE/SDR

PRODUCTION CODE Date, Location, Period SPECIFICATION

LENGTH OF CONDUIT (in feet)

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

Options

Straight longitudinal internal ribbing is available for all pipes 2 in. diameter and below. Uniform straight internal ribbing spans the length of the pipe.

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

Pull tape is offered in several tensile strengths. United Poly Systems standard pull tape is 1130 lb strength. Other options include strengths from 200 to 2500 lb.

Several colors and stripes are offered to customize the product to the customer’s needs. United Poly Systems offers custom colors upon request.

HDPE conduit material definition according to ASTM F2160

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	< 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	F20 > 192	Hours (condition C)	3 or 4	ASTM D 1693
HDB	Not Defined		0, 1, 2, 3 or 4	ASTM D 2837

These are nominal values and used as guidelines only.
This is not a product specification and does not indicate minimum or maximum operating values.

