



Comm-Line

United Poly System's Comm-Line is one of the most common conduit solutions for telecommunications and fiber-optic projects across the United States.

It is available in IPS (Iron Pipe Size) in diameters from 3/4 to 16 inches and DIPS (Ductile Iron Pipe Size) in diameters 4 inches and up. It can be installed in existing conduit or via plow, direct burial or HDD (horizontal directional drilling) installation methods.

United Poly Systems offers HDPE coil and reel options in multiple lengths to easily facilitate shipping and installation of long lengths of pipe. This is ideal for oil and gas installations and handling of materials on site.



Comm-Line is typically identified by a solid orange or terracotta color. However, Comm-Line is available in 12 colors, and added striping can result in up to 144 variations to meet any project requirement. Special coloring or print line identification can be used to identify the product and differentiate it from other telecom companies who might be sharing the same trench. Comm-Line is available for delivery on segmented reels; separate multiple lines can be wound on a single reel for easy installation of multiple lines at the job site.



Print Line Information

Comm-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)



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.*