

Power and Communications Market Products

Conduit Product Suite





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

Sizes Available:

- IPS (Iron Pipe Size) in diameters from $\frac{3}{4}$ to 16 inches
- DIPS (Ductile Iron Pipe Size) in diameters 4 inches and up

Installation Methods:

- Plow
- Direct burial
- HDD (horizontal directional drilling)
- Within existing conduit

Colors:

- Available in 12 colors
- Added striping can result in up to 144 variations to meet any project requirement
- Special coloring or print line identification used to identify and differentiate the product from other telecom companies sharing the same trench.

Delivery Methods:

- Segmented reels
- Separate 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 inch 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.



HDPE Conduit IP Sizes

IPS Size	Avg. OD	SDR PSI	7 335	7.3 320	9 250	11 200	13.5 160	15.5 139	17 130	19 110	21 100	26 80	32.5 65
½	0.84	Min Wall Avg ID Weight lb/ft	– – –	– – –	0.093 0.648 0.092	0.076 0.683 0.077	0.062 0.712 0.064	– – –	– – –	– – –	– – –	– – –	– – –
¾	1.05	Min Wall Avg ID Weight lb/ft	0.150 0.732 0.180	– – –	0.117 0.802 0.150	0.095 0.849 0.120	0.078 0.885 0.100	– – –	– – –	– – –	– – –	– – –	– – –
1	1.315	Min Wall Avg ID Weight lb/ft	0.188 0.916 0.288	0.180 0.933 0.278	0.146 1.005 0.230	0.120 1.061 0.200	0.097 1.109 0.160	– – –	– – –	– – –	– – –	– – –	– – –
1 ¼	1.66	Min Wall Avg ID Weight lb/ft	0.237 1.157 0.459	0.227 1.178 0.442	0.184 1.292 0.370	0.151 1.358 0.310	0.123 1.414 0.250	0.107 1.446 0.224	0.107 1.465 0.206	– – –	– – –	– – –	– – –
1 ½	1.90	Min Wall Avg ID Weight lb/ft	0.271 1.325 0.600	0.260 1.348 0.580	0.211 1.478 0.480	0.173 1.554 0.400	0.141 1.618 0.330	0.123 1.654 0.295	0.112 1.676 0.270	– – –	– – –	– – –	– – –
2	2.375	Min Wall Avg ID Weight lb/ft	0.339 1.656 0.939	0.325 1.685 0.906	0.264 1.815 0.760	0.213 1.917 0.640	0.176 2.002 0.530	0.153 2.069 0.458	0.140 2.078 0.430	0.125 2.110 0.390	0.113 2.135 0.350	– – –	– – –
2 ½	2.875	Min Wall Avg ID Weight lb/ft	0.411 2.004 1.377	0.394 2.040 1.329	0.319 2.198 1.109	0.262 2.351 0.930	0.213 2.449 0.764	0.213 2.424 0.771	0.169 2.516 0.622	– – –	– – –	– – –	– – –
3	3.50	Min Wall Avg ID Weight lb/ft	0.500 2.44 2.040	0.479 2.484 1.968	0.389 2.675 1.660	0.318 2.826 1.390	0.259 2.951 1.150	0.226 3.048 0.997	0.206 3.063 0.932	0.184 3.110 0.840	0.167 3.146 0.770	0.135 3.214 0.63	0.1076 3.285 0.494
4	4.50	Min Wall Avg ID Weight lb/ft	0.643 3.137 3.372	0.616 3.193 3.253	0.500 3.440 2.740	0.409 3.633 2.290	0.333 3.794 1.900	0.290 3.920 1.645	0.265 3.938 1.514	0.237 3.998 1.390	0.214 4.046 1.260	0.173 4.133 1.03	0.138 4.207 0.83
5	5.563	Min Wall Avg ID Weight lb/ft	0.795 3.878 5.170	0.762 3.947 4.975	0.618 4.253 4.180	0.506 4.490 3.510	0.412 4.690 2.910	0.359 4.844 2.517	0.327 4.870 2.352	0.293 4.942 2.120	0.265 5.001 1.930	0.214 5.109 1.57	0.171 5.20 1.27
6	6.625	Min Wall Avg ID Weight lb/ft	0.946 4.619 7.330	0.908 4.701 7.059	0.736 5.065 5.930	0.602 5.349 4.970	0.491 5.584 4.130	0.427 5.771 3.566	0.390 5.798 3.340	0.349 5.885 3.010	0.315 5.957 2.730	0.255 6.084 2.23	0.204 6.193 1.781
7	7.125	Min Wall Avg ID Weight lb/ft	– – –	– – –	– – –	– – –	– – –	– – –	0.419 6.236 3.821	0.375 6.330 3.442	0.339 6.406 3.128	0.274 6.544 2.553	0.219 6.660 2.057
8	8.625	Min Wall Avg ID Weight lb/ft	1.232 6.013 12.385	1.182 6.120 11.963	0.958 6.593 9.988	0.784 6.963 8.359	0.639 7.271 6.939	0.556 7.445 6.100	0.507 7.549 5.597	0.454 7.663 5.044	0.411 7.754 4.591	0.332 7.922 3.744	0.265 8.062 3.012
10	10.75	Min Wall Avg ID Weight lb/ft	1.536 7.494 19.245	1.473 7.628 18.581	1.194 8.218 15.515	0.977 8.678 12.983	0.796 9.062 10.774	0.694 9.280 9.490	0.632 9.409 8.695	0.566 9.551 7.838	0.512 9.665 7.128	0.413 9.873 5.805	0.331 10.049 4.689
12	12.75	Min Wall Avg ID Weight lb/ft	1.821 8.889 27.062	1.747 9.047 26.138	1.417 9.747 21.837	1.159 10.293 18.267	0.944 10.748 15.155	0.823 11.006 13.348	0.750 11.160 12.238	0.671 11.327 11.021	0.607 11.463 10.023	0.490 11.710 8.169	0.392 11.918 6.587
14	14.00	Min Wall Avg ID Weight lb/ft	2.000 9.760 32.635	1.918 9.934 31.511	1.556 10.702 26.329	1.273 11.302 22.030	1.037 11.801 18.279	0.903 12.085 16.082	0.824 12.254 14.763	0.737 12.438 13.292	0.667 12.587 12.093	0.538 12.858 9.848	0.431 13.087 7.952
16	16.00	Min Wall Avg ID Weight lb/ft	2.286 11.154 42.629	2.192 11.353 41.157	1.778 12.231 34.384	1.455 12.916 28.777	1.185 13.487 23.872	1.032 13.812 21.005	0.941 14.005 19.269	0.842 14.215 17.355	0.762 14.385 15.789	0.615 14.695 12.866	0.492 14.956 10.37

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HDPE Conduit SCH 40 and SCH 80 Sizes

SCH	SIZE OD	3/4 1.05	1 1.31	1 1/4 1.66	1 1/2 1.90	2 2.37	2 1/2 2.87	3 3.50	4 4.50	5 5.56	6 6.62
40	Min Wall Avg ID Weight lb/ft	0.113 0.804 0.215	0.133 1.030 0.145	0.140 1.360 0.291	0.145 1.590 0.349	0.154 2.047 0.469	0.203 2.445 0.744	0.216 3.042 0.973	0.237 3.998 1.387	0.258 5.016 1.882	0.280 6.031 2.443
80	Min Wall Avg ID Weight lb/ft	0.154 0.722 0.188	0.179 0.936 0.277	0.191 1.255 0.383	0.200 1.476 0.465	0.218 1.913 0.644	0.276 2.290 0.982	0.300 2.864 1.315	0.337 3.786 1.923	0.375 4.768 2.668	0.432 5.709 3.669

Note: 4"sch 40, 5" sch 40 & 6" sch 40 & sch 80 are NON COILABLE items due to thin walls

Part Number Builder

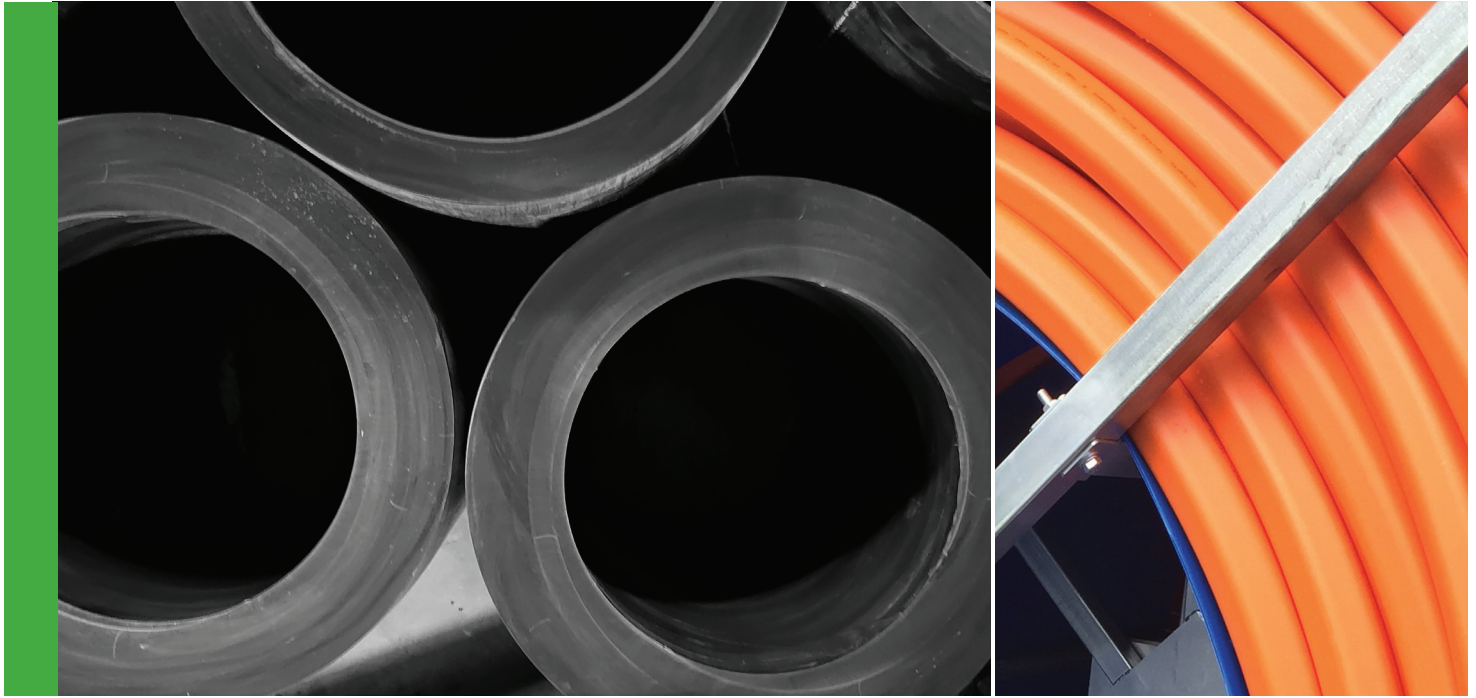
Atkore has consolidated and standardized data management for the entire HDPE Business Unit. All Atkore Legacy brand part numbers have been replaced. We now reference our individual HDPE products in literature, labeling and price sheets using the part number builder and a 4-6 digit system SKU number, which are used for RFQ's, order entry and invoicing.

Atkore part numbers are created using ten different values describing the attributes that make up each product and is used to easily identify each products characteristics.

D 12505 A O R N N 2 N S T S

Part No. Sections	Product	Size	SDR (SIDR)	Segmented	Color	Strip	Pull Tape	Lube	Ribbing	Market
Sample Section Value	Conduit/Duct	1.25"	13.5	Single way reel	Orange	None	1130#	None	Smooth	Smooth
Sample Value Code	D	125	05	A	OR	NN	2	N	S	TS
Code Finder	Conduit/Duct = D	¾" = 075	SDR 7 = 01	Single way reel = A	None = NN	None = NN	None = N	None = N	Smooth = S	Conduit
	UL Listed = U	1" = 100	SDR 9 = 02	2way reel = B	Black = BK	Black = BK	200# = 1	Lubricated = Y	Ribbed = R	(Telco/Power) = TS
		1.25" = 125	SDR 11 = 03	3way reel = C	Red = RD	Red = RD	1130# = 2			UL 651a Listed = US
		1.5" = 150	SDR 11.5 = 04	4way reel = D	Orange = OR	Orange = OR	1250# = 3			
		2" = 200	SDR 13.5 = 05		Tan = TN	Tan = TN	1800# = 4			
		2.5" = 250	SDR 15.5 = 06		Purple = VT	Purple = VT	2500# = 5			
		3" = 300	SDR 17 = 07		Slate = ST	Slate = ST	2500# Detectable = 6			
		4" = 400	SDR 19 = 08		Gray = GY	Gray = GY	1250# Detectable = 7			
		5" = 500	SDR 21 = 09		Purple = PR	Purple = PR	1800# Detectable = 8			
		6" = 600	SDR 32.5 = 10		None = NS	None = NS	4000# = 9			
			SDR 40 = 11		Green = GN	Green = GN				
			SDR 80 = 12		Blue = BL	Blue = BL				
			SDR 5 = 13		Pink = PK	Pink = PK				
			SDR 26 = 16		White = WH	White = WH				
					Terra Cotta = TC	Terra Cotta = TC				
					Lime = LM	Lime = LM				
					Brown = BN	Brown = BN				
					Lilac = LC	Lilac = LC				

Product Portfolio



Atkore has been focused on investing in and expanding our HDPE pipe and conduit product portfolio while broadening our distribution range to meet the growing demands resulting from the expansion of 5G wireless networks, Fiber to the Home (FTTH), and electrical grid hardening projects throughout the U.S. The past year has seen the acquisition of several industry leaders, including **Four-Star Industries, United Poly Systems, Cascade Poly Pipe + Conduit, and Elite Polymer Solutions**. In 2023, we are opening our newest HDPE facility in Dallas, Texas. Our investments in new manufacturing capacity allow us to be a growth partner and to lead the expansion of the market segment.

HDPE Portfolio

We offer a full product portfolio of conduit products from ½” through 16”. With 12 colors and numerous striping options, combined we have over 144 variations to meet any project requirements.

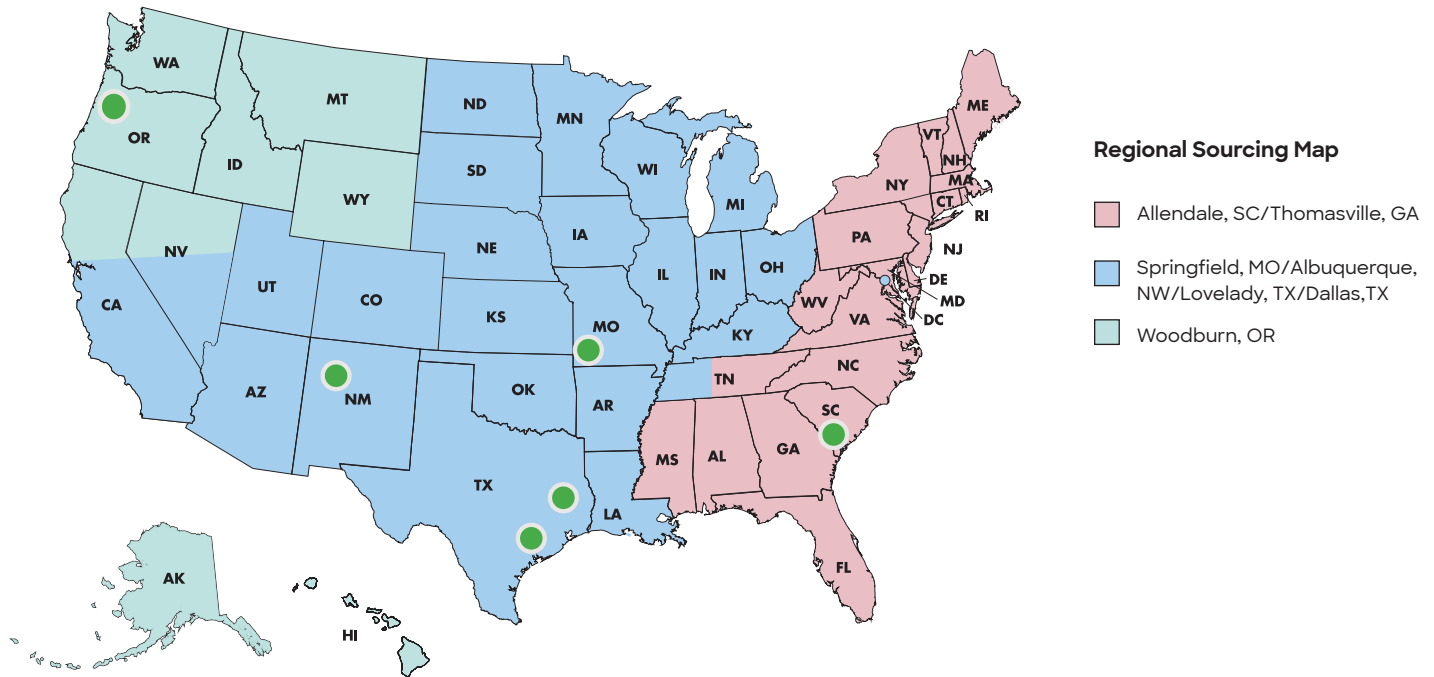
The following factors are pertinent to new and existing customers considering Atkore HDPE Conduit:

- Atkore conduit products are available with independent NSF certification to the strict requirements of the relevant safety standard (UL651A). Additional Atkore locations are in the process of obtaining this certification
- NSF certification indicates that the manufacturing site has been audited by the testing agency and meets follow-up inspections for verification of continued conformance to the UL standard
- NSF International is one of several Agencies classified as a Nationally Recognized Testing Laboratory (NRTL). A NRTL is an independent laboratory recognized by the Occupational Safety and Health Administration (OSHA) to test products to the specifications of applicable product safety standards such as UL or ANSI. The function of a NRTL is to provide independent evaluation, testing, and certification of products to their respective product safety standard. NSF, ETL and UL are all Nationally Recognized Testing Laboratories
- Atkore conduit can be supplied and marked with multiple Legacy brands, including Eastern Wire + Conduit, Four-Star Industries, and United Poly Systems. All Legacy brands were brought under the Atkore umbrella as a result of various acquisitions.

Nationwide Coverage

Nationwide coverage for HDPE pipe manufacturing and shipping

Atkore manufactures HDPE pipe with convenient locations across the country. Our coast-to-coast coverage can reduce your freight costs and shorten lead times for critical orders.



Learn more about
Atkore HDPE
Pipe and Conduit



Allied Tube & Conduit ▴ AFC Cable Systems ▴ Heritage Plastics ▴ Unistrut
Unistrut Construction ▴ Cope ▴ US Tray ▴ Calbrite ▴ Calbond ▴ Kaf-Tech
Power-Strut ▴ Calconduit ▴ Razor Ribbon ▴ Calpipe Security ▴ Vergokan ▴ Cii
Columbia-MBF ▴ Eastern Wire + Conduit ▴ ACS/Uni-Fab ▴ Sasco Strut ▴ Marco
FRE Composites ▴ Queen City Plastics ▴ Four Star Industries ▴ Flexicon

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