

BLUE DIAMOND 
INDUSTRIES, LLC

20TH 
ANNIVERSARY

Protecting critical infrastructure with **USA-made HDPE conduit solutions.**



/ OVERVIEW

Blue Diamond Industries, a member of the Hexatronic Group of Sweden, is headquartered in Lexington, KY with manufacturing facilities in Middlesboro, Kentucky, near the Tennessee border; Aubrey, Texas, just north of Dallas; Clinton, South Carolina, Northwest of Columbia; and we will soon open an new facility in Ogden, Utah, near Salt Lake City.

Blue Diamond Industries is a valued market leader in providing HDPE (High Density Polyethylene) conduit solutions for the protection of fiber optic, data and power cables. Blue Diamond's conduit solutions are installed through horizontal directional drilling, plowing and through traditional trenching methods, supporting a wide-range of market applications from residential, power utility, Cable TV, Broadband, Commercial & Industrial, Department of Transportation and the US infrastructure investment nationwide.

Blue Diamond conduit solutions of duct, innerduct and microduct support the needs of a loyal customer base by providing optimal service and value through delivery, technology and economic benefit. Blue Diamond's highly efficient manufacturing locations provide the production agility necessary to support the demands of the rapidly growing infrastructure expansion throughout the US market. Blue Diamond Industries is an ISO 9001:2015 certified company.

/ MICRODUCT

Blue Diamond offers both single-tube and multi-tube combinations. Our multi-tube duct is offered in both regular wall and heavy wall oversheath options. Other standard features include: permanent SuperGlide® interior, ribbed inside wall, tracer wire, multiple color options oversheathed in various combinations.

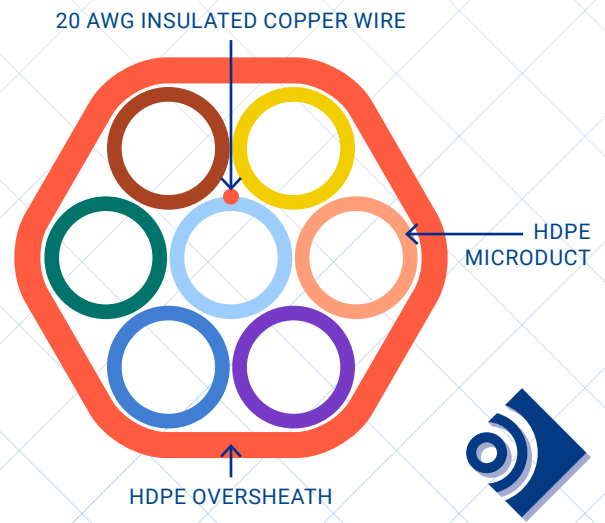
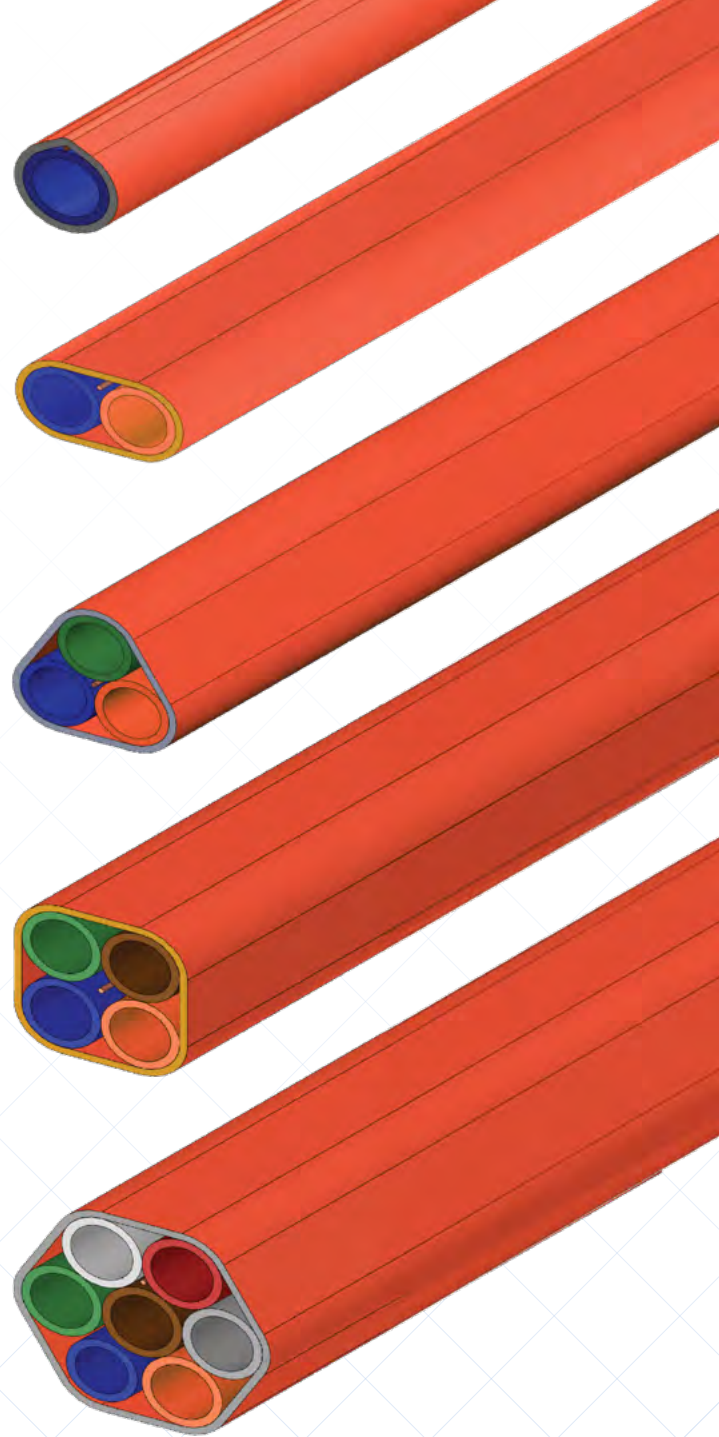
Options

- / Sizes: 5mm - 27mm
- / Multi-tube configurations are available in 2-way, 3-way, 4-way, and 7-way
- / Other configurations are available upon request
- / Ripcord options available
- / Insulated tracer wire options available
- / Thin and heavy oversheath walls available

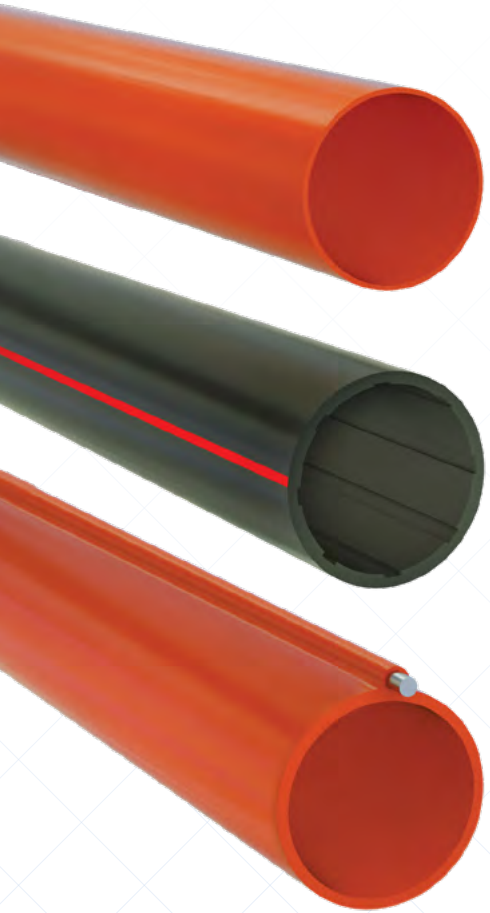
Applications & Benefits

- / Allow home-runs from node to customer
- / Allows for override in existing conduits
- / Direct bury, bore, trench or plow
- / Reduce cost with faster fiber installation
- / Flat configurations for microtrenching installations

SIZE OD/ID	WEIGHT LBS/FT	MAX FIBER COUNT	FIBER OD RANGE MM
27/20	0.168	432	10.0 - 16.0
22/16	0.117	432	7.8 - 12.4
18/14	0.065	288	6.8 - 10.9
16/13	0.044	288	6.4 - 10.2
16/12	0.057	192	5.80 - 9.2
14/10	0.049	144	5.0 - 7.9
12.7/10	0.031	144	4.9 - 7.8
10/8	0.018	96	4.0 - 6.3
8.5/6	0.019	96	3.0 - 4.7
7/3.5	0.010	48	2.7 - 4.3
5/3.5	0.007	12	1.7 - 2.7



/ COMMUNICATION & HDPE CONDUIT



HDPE Conduit

Blue Diamond Industries HDPE Conduit solutions enable the essential infrastructure by providing protection of fiber, data and power cables.

SMOOTH WALL INNERDUCT

Smooth wall is the standard High Density Polyethylene (HDPE) Duct. The interior of smooth wall has a slick finish which delivers the lowest coefficient of friction of all available non-lubricated innerduct. Smooth wall innerduct is a durable high quality product for direct burial and HDD (horizontal directional drilling) applications.

RIBBED WALL INNERDUCT

Blue Diamond's ribbed wall innerduct provides turbulent airflow when blowing fiber cable. Ribbed wall innerduct is available through 6" diameter in any SDR and SDR rating.

TRACER WIRE INNERDUCT

Tracer wire innerduct provides a method of locating underground fiber optic cable. The tracer wire is a single copper wire co-extruded onto the wall of the innerduct providing a corrosion resistant conductor. An alternative method of locating buried fiber optic cable is to use traceable tape, available pre-installed in any of our duct products.

Colors & Identification

STRIPING

- / Striping combinations are available in all colors. Three stripes located 120 degrees apart are extruded into the wall of the conduit.

IDENTIFICATION

- / Innerduct size, SDR, and sequential markings every 2' are in jet imprinted on every order.
- / Custom imprints such as company name, project name, or any special identification markings are also available.

OPTIONS

- / Lubrication
- / Up to three lengths/colors of innerduct per reel available in parallel or segmented
- / Pre-installed pull tape, tracer tape, or cable
- / SuperGlide®

AVAILABLE COLORS*



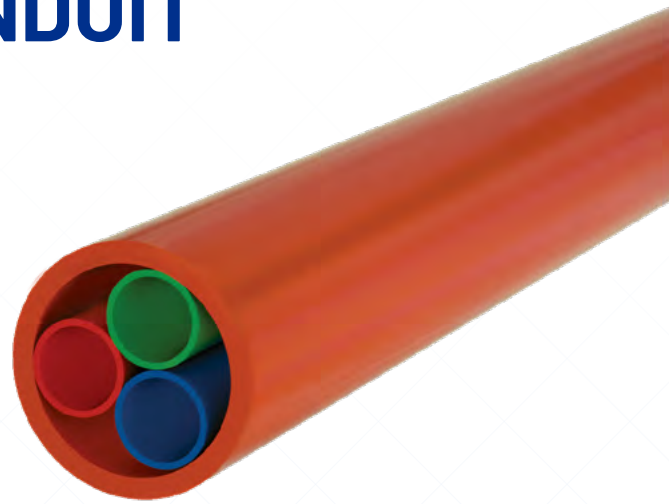
*Special colors may be available.

/ SPECIALTY HDPE CONDUIT

3N1™ Boreable Conduit

PATENT NO. 9,819,160

- / Pre-installation of 3 or 4 innerducts inside of a 4" case pipe
- / Blue Diamond's 3N1™ can be directional drilled or plowed
- / Available lengths are 500' to 1,000' on steel reels
- / Configurations:
 - 4" SDR 11.5 casing w/ 3-1.25" SDR 13.5 innerducts
 - 4" SDR 13.5 casing with 3-1" SDR 13.5 innerducts
 - 4" SDR 11.5 casing with 4-1" SDR 13.5 innerducts



UL Listed HDPE

UL Listed HDPE is a coilable nonmetallic underground conduit manufactured from High Density Polyethylene (HDPE) used for underground or innerduct applications to protect cables and wires. UL Listed HDPE is compliant with NEC 2017 Article 353 and is manufactured to UL 651A specifications. UL 1990 is the standard for UL certified conduit with conductors installed at the manufacturing facility, known as CIC (Cable in Conduit), Unit Duct, and Duct Cable. Its high tensile strength-to-weight ratio, superior crush resistance and low coefficient of friction for cable installation makes it ideal for directional boring.



UL OPTIONS

- / Sizes: 3/4" - 6"
- / Schedule 40
- / Schedule 80
- / Sizes 1 1/2" - 6" SDR 13.5
- / Multiple color and striping options
- / Sequentially marked footage
- / Coilable PE Electrical Plastic conduit

UL 651 LISTED		SCH 40			SCH 80			SDR 13.5		
Nominal Duct Size	Nominal OD	Nominal ID	Min Wall	Weight lbs/ft	Nominal ID	Min Wall	Weight lbs/ft	Nominal ID	Min Wall	Weight lbs/ft
3/4"	1.050	0.804	0.113	0.148	0.722	0.154	0.189	—	—	—
1"	1.315	1.029	0.133	0.218	0.936	0.179	0.278	—	—	—
1 1/4"	1.660	1.360	0.140	0.295	1.255	0.191	0.384	—	—	—
1 1/2"	1.900	1.590	0.145	0.352	1.476	0.200	0.465	1.599	0.141	0.343
2"	2.375	2.047	0.154	0.472	1.913	0.218	0.644	2.002	0.176	0.531
2 1/2"	2.875	2.445	0.203	0.744	2.290	0.276	0.983	2.429	0.213	0.768
3"	3.500	3.042	0.216	0.974	2.482	0.300	1.316	2.950	0.259	1.153
4"	4.500	3.998	0.237	1.387*	3.786	0.337	1.924	3.794	0.333	1.906
5"	5.563	5.009	0.258	1.880*	4.768	0.375	2.671	4.689	0.412	2.912
6"	6.625	6.031	0.280	2.444*	5.711	0.432	3.674*	5.585	0.491	4.130

*Some dimensions only available in stick form.

/ HDPE CONDUIT SIZES

ASTM F 2160 SDR Pipe Data		SDR 9			SDR 11			SDR 13.5		
Nominal Duct Size	Nominal OD	Nominal ID	Min Wall	Weight lbs/ft	Nominal ID	Min Wall	Weight lbs/ft	Nominal ID	Min Wall	Weight lbs/ft
1/2"	0.840	0.633	0.093	0.099	0.667	0.076	0.085	0.696	0.062	0.072
3/4"	1.050	0.797	0.117	0.152	0.839	0.095	0.130	0.874	0.078	0.110
1"	1.315	1.003	0.146	0.235	1.051	0.120	0.200	1.100	0.097	0.169
1 1/4"	1.660	1.270	0.184	0.372	1.338	0.151	0.314	1.394	0.123	0.264
1 1/2"	1.900	1.452	0.211	0.488	1.534	0.173	0.409	1.599	0.141	0.343
2"	2.375	1.816	0.264	0.762	1.917	0.216	0.639	2.002	0.176	0.531
2 1/2"	2.875	2.198	0.319	1.117	2.321	0.261	0.936	2.429	0.213	0.769
3"	3.500	2.676	0.389	1.657	2.825	0.318	1.387	2.950	0.259	1.153
4"	4.500	3.440	0.500	2.737	3.633	0.409	2.293	3.794	0.333	1.906
5"	5.563	4.252	0.618	4.182*	4.490	0.506	3.505	4.689	0.412	2.912
6"	6.625	5.064	0.736	5.930*	5.348	0.602	4.971	5.585	0.491	4.130

ASTM F 2160 SDR Pipe Data		SDR 15.5			SDR 17			SDR 40		
Nominal Duct Size	Nominal OD	Nominal ID	Min Wall	Weight lbs/ft	Nominal ID	Min Wall	Weight lbs/ft	Nominal ID	Min Wall	Weight lbs/ft
1/2"	0.840	—	—	—	—	—	—	—	—	—
3/4"	1.050	0.895	0.068	0.098	0.906	0.062	0.092	0.804	0.113	0.148
1"	1.315	1.127	0.084	0.151	1.140	0.077	0.139	1.029	0.133	0.218
1 1/4"	1.660	1.426	0.107	0.235	1.445	0.098	0.218	1.360	0.140	0.295
1 1/2"	1.900	1.635	0.123	0.305	1.656	0.112	0.282	1.590	0.145	0.352
2"	2.375	2.049	0.153	0.469	2.076	0.140	0.434*	2.047	0.154	0.472
2 1/2"	2.875	2.482	0.185	0.685	2.516	0.169	0.629*	2.445	0.203	0.744
3"	3.500	3.021	0.226	1.015	3.064	0.206	0.932*	3.042	0.216	0.974
4"	4.500	3.885	0.290	1.678	3.939	0.265	1.540*	3.998	0.237	1.387*
5"	5.563	4.801	0.359	2.565*	4.868	0.327	2.351*	5.009	0.258	1.882*
6"	6.625	5.719	0.427	3.633*	5.799	0.390	3.341*	6.031	0.280	2.445*

ASTM F 2160 SDR Pipe Data		SIDR 9			SIDR 11.5			SIDR 15		
Nominal Duct Size	Nominal OD	Nominal ID	Min Wall	Weight lbs/ft	Nominal ID	Min Wall	Weight lbs/ft	Nominal ID	Min Wall	Weight lbs/ft
1"	1.049	1.302	0.117	0.194	1.251	0.091	0.151	1.209	0.070	0.117
1 1/4"	1.380	1.707	0.153	0.327	1.640	0.120	0.255	1.584	0.092	0.197*
1 1/2"	1.610	1.989	0.179	0.444	1.910	0.140	0.343	1.845	0.107	0.263
2"	2.067	2.554	0.230	0.733	2.448	0.180	0.561	2.363	0.138	0.426
2 1/2"	2.469	3.051	0.274	1.044	2.924	0.215	0.800	2.818	0.165	0.613
3"	3.068	3.791	0.341	1.612	3.634	0.267	1.233	3.502	0.205	0.929
4"	4.026	—	—	—	4.768	0.350	2.122	4.595	0.268	1.595
5"	5.046	—	—	—	5.976	0.439	3.337	5.759	0.336	2.501

Please note that some sizes and dimensions may require extended lead times. Please inquire for details.

*Some dimensions only available in stick form.

/ HDPE CONDUIT REEL CAPACITIES

PIPE SIZE

Reel Size = Flange (outside diameter) x outer reel width x drum (inside drum diameter);
Standard arbor hold diameter 3" - 3 1/2"

1/2"	48x48x30 5,500	60x48x30 10,500	72x48x30 17,000	78x48x30 20,000				
3/4"	48x48x30 3,500	60x48x30 6,500	72x48x30 10,500	84x48x30 15,500	96x48x30 20,000			
1"	48x48x30 5,500	60x48x30 4,000	74x48x30 6,800	84x48x30 10,000C	96x48x30 13,500	102x48x30 15,000		
1 1/4"	60x48x30 2,500	72x48x30 4,000	84x48x30 6,500	90x48x30 7,500	96x48x30 8,500	102x48x30 10,000		
1 1/2"	72x48x36 3,000	84x48x36 4,500	96x48x36 6,500	102x48x36 7,500	114x48x36 9,000			
2"	72x48x42 1,500	84x48x42 2,500	90x48x42 3,000	96x48x42 3,750*	102x48x42 4,500	114x48x42 5,500		
2 1/2"	84x48x48 1,500	96x48x48 2,000	102x48x48 2,500	114x48x48 3,500				
3"	96x48x64 1,200	102x48x64 1,500	114x48x64 2,000	48x48x30 2,500				
4"	96x48x60 550 SDR 500 SIDR		102x48x60 750 SDR 700 SIDR		114x48x60 1,000 SDR 900 SIDR		120x48x60 1,250 SDR 1,100 SIDR	
5"	102x48x78 400	114x48x78 600	120x48x78 750					
6"	114x48x64 275	120x48x64 450						

*Can go up to 4000' of 2" on SDR 13.5 or heavier wall.

**Tracer wire will decrease maximum reel capacities.

NOTE: Ovality is a packaging condition when roundable conduit is wound into a coil or a reel. Larger conduit will have significant ovality, 10%+, and may require re-rounding in the field.

*For further information refer to ASTM F2160.

Respool Footages* (Parallel or Segment)

PIPE SIZE	2-WAY	3-WAY
1"	5,000	3,750
1 1/4"	4,000	2,500
1 1/2"	2,500	1,500
2"	1,500	1,000
3"	375	—

* Respoled duct will decrease maximum reel capacities.

/ Footage based on standard 96" reels.

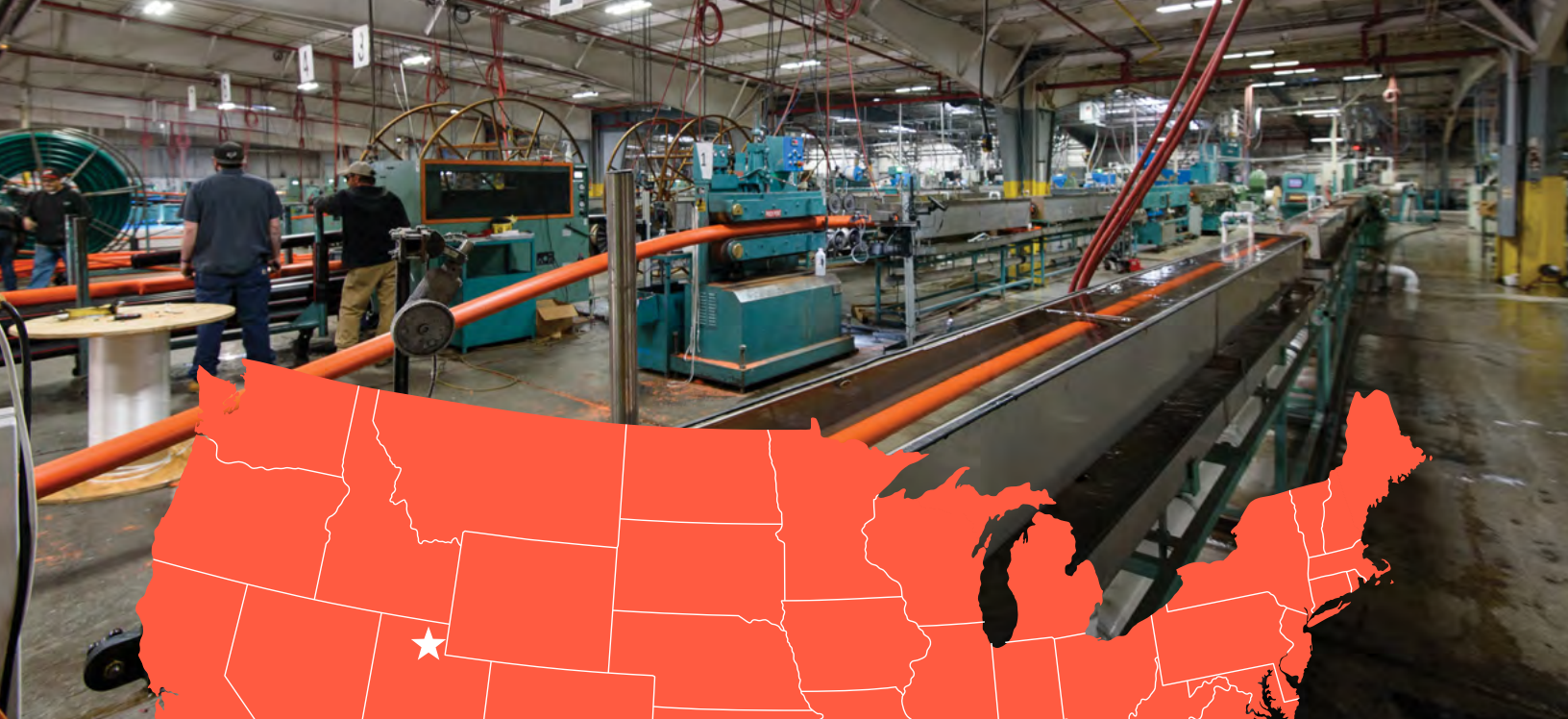
/ Footage is based on equal lengths.

/ Special put-ups are available upon request.

REELS PER TRUCKLOAD

48"	24
60"	20
72"	16
84"	14
96"	12
102"	12
114"	8
120"	8





BLUE DIAMOND



A PART OF HEXATRONIC GROUP

★ MANUFACTURING LOCATIONS

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