

HDPE Conduit - ASTM F2160

OVERVIEW

Optilex is a conduit made of HDPE (high density polyethylene) by extrusion process, with a smooth outside surface and longitudinal ribs on the inside. It can be supplied in several colors, with or without a stripe. The main application is for cable protection in underground installations of Optical Fiber, Telecommunication and Power cables.



DIMENSIONS

Nominal Diameter	SDR Schedule	OD Outside Diameter		Wall Thickness	
		Inches	Tolerance	Inches	Tolerance
		Min.		Min.	
1/2"	SDR 9	0,840	± 0,004	0.093	+0.020
	SDR 11	0,840	± 0,004	0.076	+0.020
	SDR 13.5	0,840	± 0,004	0.062	+0.020
	DR 15.5	0,840	± 0,004	0.062	+0.020
	Schedule 40	0,840	± 0,004	0.109	+0.020
	Schedule 80	0,840	± 0,004	0.147	+0.020
3/4"	SDR 9	1,050	± 0,005	0.117	+0.020
	SDR 11	1,050	± 0,005	0.095	+0.020
	SDR 13.5	1,050	± 0,005	0.078	+0.020
	DR 15.5	1,050	± 0,005	0.068	+0.020
	Schedule 40	1,050	± 0,005	0.113	+0.020
	Schedule 80	1,050	± 0,005	0.154	+0.020
1"	SDR 9	1,315	± 0,007	0.146	+0.020
	SDR 11	1,315	± 0,007	0.120	+0.020
	SDR 13.5	1,315	± 0,007	0.097	+0.020
	DR 15.5	1,315	± 0,007	0.084	+0.020
	Schedule 40	1,315	± 0,007	0.133	+0.020
	Schedule 80	1,315	± 0,007	0.179	+0.021

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Nominal Diameter	SDR Schedule	OD Outside Diameter		Wall Thickness	
		Inches	Tolerance	Inches	Tolerance
		Min.		Min.	
1.1/4"	SDR 9	1,660	± 0,008	0.184	+0.022
	SDR 11	1,660	± 0,008	0.151	+0.020
	SDR 13.5	1,660	± 0,008	0.123	+0.020
	DR 15.5	1,660	± 0,008	0.107	+0.020
	Schedule 40	1,660	± 0,008	0.140	+0.020
	Schedule 80	1,660	± 0,008	0.191	+0.023
1.1/2"	SDR 9	1,900	± 0,010	0.211	+0.025
	SDR 11	1,900	± 0,010	0.173	+0.021
	SDR 13.5	1,900	± 0,010	0.141	+0.020
	DR 15.5	1,900	± 0,010	0.123	+0.020
	Schedule 40	1,900	± 0,010	0.145	+0.020
	Schedule 80	1,900	± 0,010	0.200	+0.024
2"	SDR 9	2,375	± 0,012	0.264	+0.032
	SDR 11	2,375	± 0,012	0.216	+0.026
	SDR 13.5	2,375	± 0,012	0.176	+0.020
	DR 15.5	2,375	± 0,012	0.153	+0.020
	Schedule 40	2,375	± 0,012	0.154	+0.020
	Schedule 80	2,375	± 0,012	0.218	+0.026
2.1/2"	SDR 9	2,875	± 0,014	0.319	+0.038
	SDR 11	2,875	± 0,014	0.261	+0.031
	SDR 13.5	2,875	± 0,014	0.213	+0.020
	DR 15.5	2,875	± 0,014	0.185	+0.022
	Schedule 40	2,875	± 0,014	0.203	+0.024
	Schedule 80	2,875	± 0,014	0.276	+0.033
3"	SDR 9	3,500	± 0,018	0.389	+0.047
	SDR 11	3,500	± 0,018	0.318	+0.038
	SDR 13.5	3,500	± 0,018	0.259	+0.031
	DR 15.5	3,500	± 0,018	0.226	+0.027
	Schedule 40	3,500	± 0,018	0.216	+0.026
	Schedule 80	3,500	± 0,018	0.300	+0.036
4"	SDR 9	4,500	± 0,023	0.500	+0.060
	SDR 11	4,500	± 0,023	0.409	+0.049
	SDR 13.5	4,500	± 0,023	0.333	+0.040
	DR 15.5	4,500	± 0,023	0.290	+0.035
	Schedule 40	4,500	± 0,023	0.237	+0.028
	Schedule 80	4,500	± 0,023	0.337	+0.040

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Nominal Diameter	SDR Schedule	OD Outside Diameter		Wall Thickness	
		Inches	Tolerance	Inches	Tolerance
		Min.		Min.	
5"	SDR 9	5,563	± 0,028	0.618	+0.074
	SDR 11	5,563	± 0,028	0.506	+0.061
	SDR 13.5	5,563	± 0,028	0.412	+0.049
	DR 15.5	5,563	± 0,028	0.359	+0.043
	Schedule 40	5,563	± 0,028	0.258	+0.031
	Schedule 80	5,563	± 0,028	0.375	+0.045
6"	SDR 9	6,625	± 0,033	0.736	+0.088
	SDR 11	6,625	± 0,033	0.602	+0.072
	SDR 13.5	6,625	± 0,033	0.491	+0.059
	DR 15.5	6,625	± 0,033	0.427	+0.051
	Schedule 40	6,625	± 0,033	0.280	+0.034
	Schedule 80	6,625	± 0,033	0.432	+0.05
8"	SDR 9	8,625	± 0,043	0.958	+0.115
	SDR 11	8,625	± 0,043	0.784	+0.094
	SDR 13.5	8,625	± 0,043	0.639	+0.077
	DR 15.5	8,625	± 0,043	---	---
	Schedule 40	8,625	± 0,043	---	---
	Schedule 80	8,625	± 0,043	---	---
10"	SDR 9	10,750	± 0,054	1.194	+0.143
	SDR 11	10,750	± 0,054	0.977	+0.117
	SDR 13.5	10,750	± 0,054	0.796	+0.096
	DR 15.5	10,750	± 0,054	---	---
	Schedule 40	10,750	± 0,054	---	---
	Schedule 80	10,750	± 0,054	---	---
12"	SDR 9	12,750	± 0,064	1.417	+0.170
	SDR 11	12,750	± 0,064	1.159	+0.139
	SDR 13.5	12,750	± 0,064	0.944	+0.113
	DR 15.5	12,750	± 0,064	---	---
	Schedule 40	12,750	± 0,064	---	---
	Schedule 80	12,750	± 0,064	---	---

HDPE Conduit - ASTM F2160**RAW MATERIAL**

The raw material used to produce Optilex is HDPE - High Density Polyethylene, with added antioxidants, UV stabilizers and pigments, which provides resistance to UV light, chemical products and environmental stress crack (ESCR).

IDENTIFICATION

Optilex is hot stamped on the surface with the following information:

- Manufacturer name
- Product name
- Nominal outside diameter
- Production date

PACKAGING

Optilex conduits up to 2" OD are supplied in 4,922' to 6,562' lengths* in steel reels with the following dimensions:

- Outside diameter: 100"
- Inside diameter: 33"
- Width: 47"

Optilex conduits from 2 ½" OD to 12" OD are supplied in rolls of 164' and 328' lengths*

** Custom lengths are available to conform with client and project specifications.*

STANDARD

All Optilex conduit specifications meet or exceed **ASTM F2160** standard.