



Power-Line™ HDPE Conduit for EV Charging

Power-Line™ has a wide temperature tolerance, high flexibility, and is easy to install, making it an ideal solution for EV charging installation. Thanks to the durability of HDPE, Power-Line™ protects cables all the way from the power source to the charging station.

Benefits

Longevity

- Projected service life up to 100 years*
- Corrosion-resistant
- Wide temperature tolerance
- Includes UV protection

Easier Installation

- Flexibility of HDPE pipe, compared to legacy piping products, aids in installation.
- More installation methods available for HDPE (including directional drilling) as compared to other products.
- HDPE offers the option for fusion assembly, providing a leak-free system.

Logistics

- Easier shipping – flexible HDPE can be shipped on coils or reels
- Lower cost
- Recyclable

Standards & Specifications

- Meets or exceeds ASTM D3350
- UL 651A available in select sizes

Dimensions

- IPS in diameters ¾ - 16 inches
- DIPS in diameters 4 - 26 inches
- SCH 40 & SCH 80 in diameters ¾ - 6 inches

HDPE conduit material definition according to ASTM F2160

Property	Range or Min. 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 D1238
Flexural Modulus	110,000 - 160,000	psi	4 or 5	ASTM D790
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.



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

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Note: Please reach out to your sales representative for more information on DIPS and large-diameter sizes.

Schedule 40 and Schedule 80 Sizes

SCH	SIZE OD	¾ 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	0.113	0.133	0.140	0.145	0.154	0.203	0.216	0.237	0.258	0.280
	Avg ID	0.804	1.030	1.360	1.590	2.047	2.445	3.042	3.998	5.016	6.031
	Weight lb/ft	0.215	0.145	0.291	0.349	0.469	0.744	0.973	1.387	1.882	2.443
80	Min Wall	0.154	0.179	0.191	0.200	0.218	0.276	0.300	0.337	0.375	0.432
	Avg ID	0.722	0.936	1.255	1.476	1.913	2.290	2.864	3.786	4.768	5.709
	Weight lb/ft	0.188	0.277	0.383	0.465	0.644	0.982	1.315	1.923	2.668	3.669

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

