

TECHNICAL REFERENCE

Conduit Capacity Chart

Conduit Size		1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	3 1/2	4	4 1/2	5
I.D., inches		.622	.824	1.049	1.380	1.610	2.067	2.469	3.068	3.548	4.026	4.506	5.047
Permissible Area*		0.12	0.21	0.34	0.60	0.82	1.34	1.92	2.95	3.96	5.09	6.38	8.00
Cable O.D. inch	Cable Area Sq. inch												
0.100	0.008	15	27	44	76	103	170	243	376	503	648	812	1018
0.125	0.012	9	17	28	48	66	109	156	240	322	414	519	652
0.150	0.018	6	12	19	33	46	75	108	167	223	288	360	452
0.175	0.024	5	8	14	24	33	55	79	122	164	211	265	332
0.200	0.031	3	6	11	19	25	42	60	94	125	162	203	254
0.225	0.040	3	5	8	15	20	33	48	74	99	128	160	201
0.250	0.049	2	4	7	12	16	27	39	60	80	103	129	163
0.275	0.059	2	3	5	10	13	22	32	49	66	85	107	134
0.300	0.071	1	3	4	8	11	18	27	41	55	72	90	113
0.325	0.083	1	2	4	7	9	16	23	35	47	61	76	96
0.350	0.096	1	2	3	6	8	13	19	30	41	52	66	83
0.375	0.110	1	1	3	5	7	12	17	26	35	46	57	72
0.400	0.126	-	1	2	4	6	10	15	23	31	40	50	63
0.425	0.142	-	1	2	4	5	9	13	20	27	35	44	56
0.450	0.159	-	1	2	3	5	8	12	18	24	32	40	50
0.475	0.177	-	1	1	3	4	7	10	16	22	28	35	45
0.500	0.196	-	1	1	3	4	6	9	15	20	25	32	40
0.525	0.216	-	-	1	2	3	6	8	13	18	23	29	36
0.550	0.238	-	-	1	2	3	5	8	12	16	21	26	33
0.575	0.260	-	-	1	2	3	5	7	11	15	19	24	30
0.600	0.283	-	-	1	2	2	4	6	10	13	18	22	28
0.625	0.307	-	-	1	1	2	4	6	9	12	16	20	26
0.650	0.332	-	-	1	1	2	4	5	8	11	15	19	24
0.675	0.358	-	-	-	1	2	3	5	8	11	14	17	22
0.700	0.385	-	-	-	1	2	3	4	7	10	13	16	20
0.725	0.413	-	-	-	1	1	3	4	7	9	12	15	19
0.750	0.442	-	-	-	1	1	3	4	6	8	11	14	18
0.775	0.472	-	-	-	1	1	2	4	6	8	10	13	16
0.800	0.503	-	-	-	1	1	2	3	5	7	10	12	15
0.825	0.535	-	-	-	1	1	2	3	5	7	9	11	14
0.850	0.567	-	-	-	1	1	2	3	5	6	8	11	14
0.875	0.601	-	-	-	-	1	2	3	4	6	8	10	13
0.900	0.636	-	-	-	-	1	2	3	4	6	8	10	12
0.925	0.672	-	-	-	-	1	1	2	4	5	7	9	11
0.950	0.709	-	-	-	-	1	1	2	4	5	7	8	11
0.975	0.747	-	-	-	-	1	1	2	3	5	6	8	10
1.000	0.785	-	-	-	-	1	1	2	3	5	6	8	10
1.025	0.825	-	-	-	-	-	1	2	3	4	6	7	9
1.050	0.866	-	-	-	-	-	1	2	3	4	5	7	9
1.075	0.908	-	-	-	-	-	1	2	3	4	5	7	8
1.100	0.950	-	-	-	-	-	1	2	3	4	5	6	8
1.125	0.994	-	-	-	-	-	1	1	2	3	5	6	8
1.150	1.039	-	-	-	-	-	1	1	2	3	4	6	7
1.175	1.084	-	-	-	-	-	1	1	2	3	4	5	7
1.200	1.131	-	-	-	-	-	1	1	2	3	4	5	7
1.225	1.179	-	-	-	-	-	1	1	2	3	4	5	6
1.250	1.227	-	-	-	-	-	1	1	2	3	4	5	6
1.275	1.277	-	-	-	-	-	1	1	2	3	3	4	6
1.300	1.327	-	-	-	-	-	1	1	2	2	3	4	6
1.325	1.379	-	-	-	-	-	-	1	2	2	3	4	5
1.350	1.431	-	-	-	-	-	-	1	2	2	3	4	5
1.375	1.485	-	-	-	-	-	-	1	1	2	3	4	5
1.400	1.539	-	-	-	-	-	-	1	1	2	3	4	5
1.425	1.595	-	-	-	-	-	-	1	1	2	3	3	5
1.450	1.651	-	-	-	-	-	-	1	1	2	3	3	4
1.475	1.709	-	-	-	-	-	-	1	1	2	2	3	4
1.500	1.767	-	-	-	-	-	-	1	1	2	2	3	4

Important Note: This conduit capacity chart is to be used as a general guideline. Because local codes can vary from the National Electrical Code, West Penn Wire cannot be held responsible for this information as it pertains to your installation. Proper conduit fill is the sole responsibility of the installer and it is your responsibility to see that your installation will pass local codes.

* Permissible Area to be occupied (sq. in.) based on the NEC standard of 40% fill, which applies to three or more non-lead covered cables installed in the same conduit.