

Communications Supply Corporation

TECHNICAL DATA

CONDUIT CAPACITY CHART

Conduit Trade 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	0.622	0.824	1.049	1.380	1.610	2.067	2.469	3.068	3.548	4.026	4.506	5.047
O.D., Inches-Conduit	0.840	1.050	1.315	1.660	1.900	2.375	2.875	3.500	4.000	4.500	5.000	5.563
O.D., Inches-EMT	0.760	0.922	1.163	1.510	1.740	2.197	---	---	---	---	---	---
Internal Area, Sq.In.	0.304	0.533	0.864	1.496	2.036	3.356	4.788	7.393	9.887	12.730	15.947	20.006
Permissible Fill, Sq.In. **	0.12	0.21	0.35	0.60	0.81	1.34	1.92	2.96	3.95	5.09	6.38	8.0

O.D.,In.	Area, Sq. In.	1/2	3/4	1	1-1/4	1-1/2	2	2-1/2	3	3-1/2	4	4-1/2	5
.100	.008	15	27	44	76	103	170	243	376	503	648	812	1018
.125	.012	9	17	28	48	66	109	156	240	322	414	519	652
.150	.018	6	12	19	33	46	75	108	167	223	288	360	452
.175	.024	5	8	14	24	33	55	79	122	164	211	265	332
.200	.031	3	6	11	19	25	42	60	94	125	162	203	254
.225	.040	3	5	8	15	20	33	48	74	99	128	160	201
.250	.049	2	4	7	12	16	27	39	60	80	103	129	163
.275	.059	2	3	5	10	13	22	32	49	66	85	107	134
.300	.071	1	3	4	8	11	18	27	41	55	72	90	113
.325	.083	1	2	4	7	9	16	23	35	47	61	76	96
.350	.096	1	2	3	6	8	13	19	30	41	52	66	83
.375	.110	1	1	3	5	7	12	17	26	35	46	57	72
.400	.126	0	1	2	4	6	10	15	23	31	40	50	63
.425	.142	0	1	2	4	5	9	13	20	27	35	44	56
.450	.159	0	1	2	3	5	8	12	18	24	32	40	50
.475	.177	0	1	1	3	4	7	10	16	22	28	35	45
.500	.196	0	1	1	3	4	6	9	15	20	25	32	40
.525	.216	0	0	1	2	3	6	8	13	18	23	29	36
.550	.238	0	0	1	2	3	5	8	12	16	21	26	33
.575	.260	0	0	1	2	3	5	7	11	15	19	24	30
.600	.283	0	0	1	2	2	4	6	10	13	18	22	28
.625	.307	0	0	1	1	2	4	6	9	12	16	20	26
.650	.332	0	0	1	1	2	4	5	8	11	15	19	24
.675	.358	0	0	0	1	2	3	5	8	11	14	17	22
.700	.385	0	0	0	1	2	3	4	7	10	13	16	20
.725	.413	0	0	0	1	1	3	4	7	9	12	15	19
.750	.442	0	0	0	1	1	3	4	6	8	11	14	18
.775	.472	0	0	0	1	1	2	4	6	8	10	13	16
.800	.503	0	0	0	1	1	2	3	5	7	10	12	15
.825	.535	0	0	0	1	1	2	3	5	7	9	11	14
.850	.567	0	0	0	1	1	2	3	5	6	8	11	14
.875	.601	0	0	0	0	1	2	3	4	6	8	10	13
.900	.636	0	0	0	0	1	2	3	4	6	8	10	12
.925	.672	0	0	0	0	1	1	2	4	5	7	9	11
.950	.709	0	0	0	0	1	1	2	4	5	7	8	11
.975	.747	0	0	0	0	1	1	2	3	5	6	8	10
1.000	.785	0	0	0	0	1	1	2	3	5	6	8	10
1.025	.825	0	0	0	0	0	1	2	3	4	6	7	9
1.050	.866	0	0	0	0	0	1	2	3	4	5	7	9

* Table developed for steel or aluminum alloy conduit

** Permissible occupied area based on the NEC prescribed 40% fill factor for 3 or more cables.

Note: A single cable is permitted to occupy 53% and two cables are limited to 31% conduit fill.

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O.D.,In.	Area, Sq. In.	1/2	3/4	1	1-1/4	1-1/2	2	2-1/2	3	3-1/2	4	4-1/2	5
1.075	.908	0	0	0	0	0	1	2	3	4	5	7	8
1.100	.950	0	0	0	0	0	1	2	3	4	5	6	8
1.125	.994	0	0	0	0	0	1	1	2	3	5	6	8
1.150	1.039	0	0	0	0	0	1	1	2	3	4	6	7
1.175	1.084	0	0	0	0	0	1	1	2	3	4	5	7
1.200	1.131	0	0	0	0	0	1	1	2	3	4	5	7
1.225	1.179	0	0	0	0	0	1	1	2	3	4	5	6
1.250	1.277	0	0	0	0	0	1	1	2	3	4	5	6
1.275	1.227	0	0	0	0	0	1	1	2	3	3	4	6
1.300	1.327	0	0	0	0	0	1	1	2	2	3	4	6
1.325	1.379	0	0	0	0	0	0	1	2	2	3	4	5
1.350	1.431	0	0	0	0	0	0	1	2	2	3	4	5
1.375	1.485	0	0	0	0	0	0	1	1	2	3	4	5
1.400	1.539	0	0	0	0	0	0	1	1	2	3	4	5
1.425	1.595	0	0	0	0	0	0	1	1	2	3	3	5
1.450	1.651	0	0	0	0	0	0	1	1	2	3	3	4
1.475	1.709	0	0	0	0	0	0	1	1	2	2	3	4
1.500	1.767	0	0	0	0	0	0	1	1	2	2	3	4
1.525	1.827	0	0	0	0	0	0	1	1	2	2	3	4
1.550	1.887	0	0	0	0	0	0	1	1	2	2	3	4
1.575	1.948	0	0	0	0	0	0	0	1	2	2	3	4
1.600	2.011	0	0	0	0	0	0	0	1	1	2	3	3
1.625	2.074	0	0	0	0	0	0	0	1	1	2	3	3
1.650	2.138	0	0	0	0	0	0	0	1	1	2	2	3
1.675	2.204	0	0	0	0	0	0	0	1	1	2	2	3
1.700	2.270	0	0	0	0	0	0	0	1	1	2	2	3
1.725	2.337	0	0	0	0	0	0	0	1	1	2	2	3
1.750	2.405	0	0	0	0	0	0	0	1	1	2	2	3
1.775	2.474	0	0	0	0	0	0	0	1	1	2	2	3
1.800	2.545	0	0	0	0	0	0	0	1	1	2	2	3
1.825	2.616	0	0	0	0	0	0	0	1	1	1	2	3
1.850	2.688	0	0	0	0	0	0	0	1	1	1	2	2
1.875	2.761	0	0	0	0	0	0	0	1	1	1	2	2
1.900	2.835	0	0	0	0	0	0	0	1	1	1	2	2
1.925	2.910	0	0	0	0	0	0	0	1	1	1	2	2
1.950	2.986	0	0	0	0	0	0	0	0	1	1	2	2
1.975	3.064	0	0	0	0	0	0	0	0	1	1	2	2
2.000	3.142	0	0	0	0	0	0	0	0	0	1	1	2