

CONDUIT FILL CHART

SIZE (IN)	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	3-1/2"	4"	CABLE AREA	CABLE O.D.
INTERNAL DIAMETER	0.622	0.824	1.049	1.38	1.61	2.067	2.469	3.068	3.548	4.026		
40% FILLED AREA	0.1215	0.2133	0.3457	0.5983	0.8143	1.3422	1.9151	2.9571	3.9547	5.0921		
31% FILLED AREA	0.0942	0.1653	0.2679	0.4637	0.6311	1.0402	1.4842	2.2917	3.0649	3.9464		
53% FILLED AREA	0.1610	0.2826	0.4581	0.7927	1.0790	1.7785	2.5375	3.9181	5.2400	6.7470		
MAXIMUM NUMBER OF CABLES @ 40% FILL RATE	15	27	44	76	103	170	243	376	503	648	0.0079	0.100
	14	24	39	69	94	155	221	341	456	588	0.0087	0.105
	12	22	36	62	85	141	201	311	416	535	0.0095	0.110
	11	20	33	57	78	129	184	284	380	490	0.0104	0.115
	10	18	30	52	72	118	169	261	349	450	0.0113	0.120
	9	17	28	48	66	109	156	240	322	414	0.0123	0.125
	9	16	26	45	61	101	144	222	297	383	0.0133	0.130
	8	14	24	41	56	93	133	206	276	355	0.0143	0.135
	7	13	22	38	52	87	124	192	256	330	0.0154	0.140
	7	12	20	36	49	81	115	179	239	308	0.0165	0.145
	6	12	19	33	46	75	108	167	223	288	0.0177	0.150
	6	11	18	31	43	71	101	156	209	269	0.0189	0.155
	6	10	17	29	40	66	95	147	196	253	0.0201	0.160
	5	9	16	27	38	62	89	138	184	238	0.0214	0.165
	5	9	15	26	35	59	84	130	174	224	0.0227	0.170
	5	8	14	24	33	55	79	122	164	211	0.0241	0.175
	4	8	13	23	32	52	75	116	155	200	0.0254	0.180
	4	7	12	22	30	49	71	110	147	189	0.0269	0.185
	4	7	12	21	28	47	67	104	139	179	0.0284	0.190
	4	7	11	20	27	44	64	99	132	170	0.0299	0.195
	3	6	11	19	25	42	60	94	125	162	0.0314	0.200
	3	6	10	18	24	40	58	89	119	154	0.0330	0.205
	3	6	9	17	23	38	55	85	114	147	0.0346	0.210
	3	5	9	16	22	36	52	81	108	140	0.0363	0.215
	3	5	9	15	21	35	50	77	104	133	0.0380	0.220
	3	5	8	15	20	33	48	74	99	128	0.0398	0.225
	2	5	8	14	19	32	46	71	95	122	0.0415	0.230
	2	4	7	13	18	30	44	68	91	117	0.0434	0.235
	2	4	7	13	18	29	42	65	87	112	0.0452	0.240
	2	4	7	12	17	28	40	62	83	108	0.0471	0.245
	2	4	7	12	16	27	39	60	80	103	0.0491	0.250
	2	4	6	11	15	26	37	57	77	99	0.0511	0.255
	2	4	6	11	15	25	36	55	74	95	0.0531	0.260
	2	3	6	10	14	24	34	53	71	92	0.0552	0.265
	2	3	6	10	14	23	33	51	69	88	0.0573	0.270
	2	3	5	10	13	22	32	49	66	85	0.0594	0.275
	1	3	5	9	13	21	31	48	64	82	0.0616	0.280
	1	3	5	9	12	21	30	46	61	79	0.0638	0.285
	1	3	5	9	12	20	28	44	59	77	0.0661	0.290
	1	3	5	8	11	19	28	43	57	74	0.0683	0.295

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MAXIMUM NUMBER OF CABLES @ 40% FILL RATE	1	3	4	8	11	18	27	41	55	72	0.0707	0.300
	1	2	4	8	11	18	26	40	54	69	0.0731	0.305
	1	2	4	7	10	17	25	39	52	67	0.0755	0.310
	1	2	4	7	10	17	24	37	50	65	0.0779	0.315
	1	2	4	7	10	16	23	36	49	63	0.0804	0.320
	1	2	4	7	9	16	23	35	47	61	0.0830	0.325
	1	2	4	6	9	15	22	34	46	59	0.0855	0.330
	1	2	3	6	9	15	21	33	44	57	0.0881	0.335
	1	2	3	6	8	14	21	32	43	56	0.0908	0.340
	1	2	3	6	8	14	20	31	42	54	0.0935	0.345
	1	2	3	6	8	13	19	30	41	52	0.0962	0.350
	1	2	3	6	8	13	19	29	39	51	0.0990	0.355
	1	2	3	5	8	13	18	29	38	50	0.1018	0.360
	1	2	3	5	7	12	18	28	37	48	0.1046	0.365
	1	1	3	5	7	12	17	27	36	47	0.1075	0.370
	1	1	3	5	7	12	17	26	35	46	0.1104	0.375
	1	1	3	5	7	11	16	26	34	44	0.1134	0.380
	1	1	2	5	6	11	16	25	33	43	0.1164	0.385
	1	1	2	5	6	11	16	24	33	42	0.1195	0.390
	0	1	2	4	6	10	15	24	32	41	0.1225	0.395
	0	1	2	4	6	10	15	23	31	40	0.1257	0.400
	0	1	2	4	6	10	14	22	30	39	0.1288	0.405
	0	1	2	4	6	10	14	22	29	38	0.1320	0.410
	0	1	2	4	6	9	14	21	29	37	0.1353	0.415
	0	1	2	4	5	9	13	21	28	36	0.1385	0.420
	0	1	2	4	5	9	13	20	27	35	0.1419	0.425
	0	1	2	4	5	9	13	20	27	35	0.1452	0.430
	0	1	2	4	5	9	12	19	26	34	0.1486	0.435
	0	1	2	3	5	8	12	19	26	33	0.1521	0.440
	0	1	2	3	5	8	12	19	25	32	0.1555	0.445
	0	1	2	3	5	8	12	18	24	32	0.1590	0.450
	0	1	2	3	5	8	11	18	24	31	0.1626	0.455
	0	1	2	3	4	8	11	17	23	30	0.1662	0.460
	0	1	2	3	4	7	11	17	23	29	0.1698	0.465
	0	1	1	3	4	7	11	17	22	29	0.1735	0.470
	0	1	1	3	4	7	10	16	22	28	0.1772	0.475
	0	1	1	3	4	7	10	16	21	28	0.1810	0.480
	0	1	1	3	4	7	10	16	21	27	0.1847	0.485
	0	1	1	3	4	7	10	15	20	27	0.1886	0.490
	0	1	1	3	4	6	9	15	20	26	0.1924	0.495
	0	1	1	3	4	6	9	15	20	25	0.1963	0.500
	0	1	1	2	4	6	9	14	19	25	0.2003	0.505
	0	1	1	2	3	6	9	14	19	24	0.2043	0.510
	0	1	1	2	3	6	9	14	18	24	0.2083	0.515
	0	1	1	2	3	6	9	13	18	23	0.2124	0.520
	0	0	1	2	3	6	8	13	18	23	0.2165	0.525
	0	0	1	2	3	6	8	13	17	23	0.2206	0.530

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MAXIMUM NUMBER OF CABLES @ 40% FILL RATE	0	0	1	2	3	5	8	13	17	22	0.2248	0.535
	0	0	1	2	3	5	8	12	17	22	0.2290	0.540
	0	0	1	2	3	5	8	12	16	21	0.2333	0.545
	0	0	1	2	3	5	8	12	16	21	0.2376	0.550
	0	0	1	2	3	5	7	12	16	21	0.2419	0.555
	0	0	1	2	3	5	7	12	16	20	0.2463	0.560
	0	0	1	2	3	5	7	11	15	20	0.2507	0.565
	0	0	1	2	3	5	7	11	15	19	0.2552	0.570
	0	0	1	2	3	5	7	11	15	19	0.2597	0.575
	0	0	1	2	3	5	7	11	14	19	0.2642	0.580
	0	0	1	2	3	4	7	11	14	18	0.2688	0.585
	0	0	1	2	2	4	7	10	14	18	0.2734	0.590
	0	0	1	2	2	4	6	10	14	18	0.2781	0.595
	0	0	1	2	2	4	6	10	13	18	0.2827	0.600
	0	0	1	2	2	4	6	10	13	17	0.2875	0.605
	0	0	1	2	2	4	6	10	13	17	0.2922	0.610
	0	0	1	2	2	4	6	9	13	17	0.2971	0.615
	0	0	1	1	2	4	6	9	13	16	0.3019	0.620
	0	0	1	1	2	4	6	9	12	16	0.3068	0.625
	0	0	1	1	2	4	6	9	12	16	0.3117	0.630
	0	0	1	1	2	4	6	9	12	16	0.3167	0.635
	0	0	1	1	2	4	5	9	12	15	0.3217	0.640
	0	0	1	1	2	4	5	9	12	15	0.3267	0.645
	0	0	1	1	2	4	5	8	11	15	0.3318	0.650
	0	0	1	1	2	3	5	8	11	15	0.3370	0.655
	0	0	1	1	2	3	5	8	11	14	0.3421	0.660
	0	0	0	1	2	3	5	8	11	14	0.3473	0.665
	0	0	0	1	2	3	5	8	11	14	0.3526	0.670
	0	0	0	1	2	3	5	8	11	14	0.3578	0.675
	0	0	0	1	2	3	5	8	10	14	0.3632	0.680
	0	0	0	1	2	3	5	8	10	13	0.3685	0.685
	0	0	0	1	2	3	5	7	10	13	0.3739	0.690
	0	0	0	1	2	3	5	7	10	13	0.3794	0.695
	0	0	0	1	2	3	4	7	10	13	0.3848	0.700
	0	0	0	1	2	3	4	7	10	13	0.3904	0.705
	0	0	0	1	2	3	4	7	9	12	0.3959	0.710
	0	0	0	1	2	3	4	7	9	12	0.4015	0.715
	0	0	0	1	2	3	4	7	9	12	0.4072	0.720
	0	0	0	1	1	3	4	7	9	12	0.4128	0.725
	0	0	0	1	1	3	4	7	9	12	0.4185	0.730
	0	0	0	1	1	3	4	6	9	12	0.4243	0.735
	0	0	0	1	1	3	4	6	9	11	0.4301	0.740
	0	0	0	1	1	3	4	6	9	11	0.4359	0.745
	0	0	0	1	1	3	4	6	8	11	0.4418	0.750
	0	0	0	1	1	2	4	6	8	11	0.4477	0.755
	0	0	0	1	1	2	4	6	8	11	0.4536	0.760
	0	0	0	1	1	2	4	6	8	11	0.4596	0.765

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MAXIMUM NUMBER OF CABLES @ 40% FILL RATE	0	0	0	1	1	2	4	6	8	10	0.4657	0.770
	0	0	0	1	1	2	4	6	8	10	0.4717	0.775
	0	0	0	1	1	2	4	6	8	10	0.4778	0.780
	0	0	0	1	1	2	3	6	8	10	0.4840	0.785
	0	0	0	1	1	2	3	6	8	10	0.4902	0.790
	0	0	0	1	1	2	3	5	7	10	0.4964	0.795
	0	0	0	1	1	2	3	5	7	10	0.5027	0.800
	0	0	0	1	1	2	3	5	7	10	0.5090	0.805
	0	0	0	1	1	2	3	5	7	9	0.5153	0.810
	0	0	0	1	1	2	3	5	7	9	0.5217	0.815
	0	0	0	1	1	2	3	5	7	9	0.5281	0.820
	0	0	0	1	1	2	3	5	7	9	0.5346	0.825
	0	0	0	1	1	2	3	5	7	9	0.5411	0.830
	0	0	0	1	1	2	3	5	7	9	0.5476	0.835
	0	0	0	1	1	2	3	5	7	9	0.5542	0.840
	0	0	0	1	1	2	3	5	7	9	0.5608	0.845
	0	0	0	1	1	2	3	5	6	8	0.5675	0.850
	0	0	0	1	1	2	3	5	6	8	0.5741	0.855
	0	0	0	1	1	2	3	5	6	8	0.5809	0.860
	0	0	0	1	1	2	3	5	6	8	0.5877	0.865
	0	0	0	1	1	2	3	4	6	8	0.5945	0.870
	0	0	0	0	1	2	3	4	6	8	0.6013	0.875
	0	0	0	0	1	2	3	4	6	8	0.6082	0.880
	0	0	0	0	1	2	3	4	6	8	0.6151	0.885
	0	0	0	0	1	2	3	4	6	8	0.6221	0.890
	0	0	0	0	1	2	3	4	6	8	0.6291	0.895
	0	0	0	0	1	2	3	4	6	8	0.6362	0.900
	0	0	0	0	1	2	2	4	6	7	0.6433	0.905
	0	0	0	0	1	2	2	4	6	7	0.6504	0.910
	0	0	0	0	1	2	2	4	6	7	0.6576	0.915
	0	0	0	0	1	2	2	4	5	7	0.6648	0.920
	0	0	0	0	1	1	2	4	5	7	0.6720	0.925
	0	0	0	0	1	1	2	4	5	7	0.6793	0.930
	0	0	0	0	1	1	2	4	5	7	0.6866	0.935
	0	0	0	0	1	1	2	4	5	7	0.6940	0.940
	0	0	0	0	1	1	2	4	5	7	0.7014	0.945
	0	0	0	0	1	1	2	4	5	7	0.7088	0.950
	0	0	0	0	1	1	2	4	5	7	0.7163	0.955
	0	0	0	0	1	1	2	4	5	7	0.7238	0.960
	0	0	0	0	1	1	2	4	5	6	0.7314	0.965
	0	0	0	0	1	1	2	4	5	6	0.7390	0.970
	0	0	0	0	1	1	2	3	5	6	0.7466	0.975
	0	0	0	0	1	1	2	3	5	6	0.7543	0.980
	0	0	0	0	1	1	2	3	5	6	0.7620	0.985
	0	0	0	0	1	1	2	3	5	6	0.7698	0.990
	0	0	0	0	1	1	2	3	5	6	0.7776	0.995
	0	0	0	0	1	1	2	3	5	6	0.7854	1.000

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