

**SYSTEM VOLTAGE:** 12**VOLTAGE DROP** 5.00%**TEMP (DEG C):** 75

R = f(T) 3.1400 1.9800 1.2400 0.7780 0.4910 0.3080 0.2450 0.1940 0.1540 0.1220 0.0967 0.0766 0.0608 0.0515

NUMBERS IN COLUMNS BENEATH WIRE GAUGES REPRESENT ONE-WAY WIRE RUNS IN FEET. PURPLE LINE REPRESENTS BREAKER SIZE. DO NOT USE LENGTHS BELOW

Amps	#14	#12	#10	#8	#6	#4	#3	#2	#1	#1/0	#2/0	#3/0	#4/0	250 MCM
1	95.54	151.52	241.94	385.60	611.00	974.03	1224.49	1546.39	1948.05	2459.02	3102.38	3916.45	4934.21	5825.24
2	47.77	75.76	120.97	192.80	305.50	487.01	612.24	773.20	974.03	1229.51	1551.19	1958.22	2467.11	2912.62
3	31.85	50.51	80.65	128.53	203.67	324.68	408.16	515.46	649.35	819.67	1034.13	1305.48	1644.74	1941.75
4	23.89	37.88	60.48	96.40	152.75	243.51	306.12	386.60	487.01	614.75	775.59	979.11	1233.55	1456.31
5	19.11	30.30	48.39	77.12	122.20	194.81	244.90	309.28	389.61	491.80	620.48	783.29	986.84	1165.05
6	15.92	25.25	40.32	64.27	101.83	162.34	204.08	257.73	324.68	409.84	517.06	652.74	822.37	970.87
7	13.65	21.65	34.56	55.09	87.29	139.15	174.93	220.91	278.29	351.29	443.20	559.49	704.89	832.18
8	11.94	18.94	30.24	48.20	76.37	121.75	153.06	193.30	243.51	307.38	387.80	489.56	616.78	728.16
9	10.62	16.84	26.88	42.84	67.89	108.23	136.05	171.82	216.45	273.22	344.71	435.16	548.25	647.25
10	9.55	15.15	24.19	38.56	61.10	97.40	122.45	154.64	194.81	245.90	310.24	391.64	493.42	582.52
11	8.69	13.77	21.99	35.05	55.55	88.55	111.32	140.58	177.10	223.55	282.03	356.04	448.56	529.57
12	7.96	12.63	20.16	32.13	50.92	81.17	102.04	128.87	162.34	204.92	258.53	326.37	411.18	485.44
13	7.35	11.66	18.61	29.66	47.00	74.93	94.19	118.95	149.85	189.16	238.64	301.27	379.55	448.10
14	6.82	10.82	17.28	27.54	43.64	69.57	87.46	110.46	139.15	175.64	221.60	279.75	352.44	416.09
15	6.37	10.10	16.13	25.71	40.73	64.94	81.63	103.09	129.87	163.93	206.83	261.10	328.95	388.35
16	5.97	9.47	15.12	24.10	38.19	60.88	76.53	96.65	121.75	153.69	193.90	244.78	308.39	364.08
17	5.62	8.91	14.23	22.68	35.94	57.30	72.03	90.96	114.59	144.65	182.49	230.38	290.25	342.66
18	5.31	8.42	13.44	21.42	33.94	54.11	68.03	85.91	108.23	136.61	172.35	217.58	274.12	323.62
19	5.03	7.97	12.73	20.29	32.16	51.26	64.45	81.39	102.53	129.42	163.28	206.13	259.70	306.59
20	4.78	7.58	12.10	19.28	30.55	48.70	61.22	77.32	97.40	122.95	155.12	195.82	246.71	291.26
22	4.34	6.89	11.00	17.53	27.77	44.27	55.66	70.29	88.55	111.77	141.02	178.02	224.28	264.78
24	3.98	6.31	10.08	16.07	25.46	40.58	51.02	64.43	81.17	102.46	129.27	163.19	205.59	242.72
26	3.67	5.83	9.31	14.83	23.50	37.46	47.10	59.48	74.93	94.58	119.32	150.63	189.78	224.05
28	3.41	5.41	8.64	13.77	21.82	34.79	43.73	55.23	69.57	87.82	110.80	139.87	176.22	208.04
30	3.18	5.05	8.06	12.85	20.37	32.47	40.82	51.55	64.94	81.97	103.41	130.55	164.47	194.17
32	2.99	4.73	7.56	12.05	19.09	30.44	38.27	48.32	60.88	76.84	96.95	122.39	154.19	182.04
34	2.81	4.46	7.12	11.34	17.97	28.65	36.01	45.48	57.30	72.32	91.25	115.19	145.12	171.33
36	2.65	4.21	6.72	10.71	16.97	27.06	34.01	42.96	54.11	68.31	86.18	108.79	137.06	161.81
38	2.51	3.99	6.37	10.15	16.08	25.63	32.22	40.69	51.26	64.71	81.64	103.06	129.85	153.30
40	2.39	3.79	6.05	9.64	15.27	24.35	30.61	38.66	48.70	61.48	77.56	97.91	123.36	145.63
42	2.27	3.61	5.76	9.18	14.55	23.19	29.15	36.82	46.38	58.55	73.87	93.25	117.48	138.70
44	2.17	3.44	5.50	8.76	13.89	22.14	27.83	35.15	44.27	55.89	70.51	89.01	112.14	132.39
46	2.08	3.29	5.26	8.38	13.28	21.17	26.62	33.62	42.35	53.46	67.44	85.14	107.27	126.64
48	1.99	3.16	5.04	8.03	12.73	20.29	25.51	32.22	40.58	51.23	64.63	81.59	102.80	121.36
50	1.91	3.03	4.84	7.71	12.22	19.48	24.49	30.93	38.96	49.18	62.05	78.33	98.68	116.50
52	1.84	2.91	4.65	7.42	11.75	18.73	23.55	29.74	37.46	47.29	59.66	75.32	94.89	112.02
54	1.77	2.81	4.48	7.14	11.31	18.04	22.68	28.64	36.08	45.54	57.45	72.53	91.37	107.87