

SYSTEM VOLTAGE: 48**VOLTAGE DROP** 3.50%**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	267.52	424.24	677.42	1079.69	1710.79	2727.27	3428.57	4329.90	5454.55	6885.25	8686.66	10966.06	13815.79	16310.68
2	133.76	212.12	338.71	539.85	855.40	1363.64	1714.29	2164.95	2727.27	3442.62	4343.33	5483.03	6907.89	8155.34
3	89.17	141.41	225.81	359.90	570.26	909.09	1142.86	1443.30	1818.18	2295.08	2895.55	3655.35	4605.26	5436.89
4	66.88	106.06	169.35	269.92	427.70	681.82	857.14	1082.47	1363.64	1721.31	2171.66	2741.51	3453.95	4077.67
5	53.50	84.85	135.48	215.94	342.16	545.45	685.71	865.98	1090.91	1377.05	1737.33	2193.21	2763.16	3262.14
6	44.59	70.71	112.90	179.95	285.13	454.55	571.43	721.65	909.09	1147.54	1447.78	1827.68	2302.63	2718.45
7	38.22	60.61	96.77	154.24	244.40	389.61	489.80	618.56	779.22	983.61	1240.95	1566.58	1973.68	2330.10
8	33.44	53.03	84.68	134.96	213.85	340.91	428.57	541.24	681.82	860.66	1085.83	1370.76	1726.97	2038.83
9	29.72	47.14	75.27	119.97	190.09	303.03	380.95	481.10	606.06	765.03	965.18	1218.45	1535.09	1812.30
10	26.75	42.42	67.74	107.97	171.08	272.73	342.86	432.99	545.45	688.52	868.67	1096.61	1381.58	1631.07
11	24.32	38.57	61.58	98.15	155.53	247.93	311.69	393.63	495.87	625.93	789.70	996.91	1255.98	1482.79
12	22.29	35.35	56.45	89.97	142.57	227.27	285.71	360.82	454.55	573.77	723.89	913.84	1151.32	1359.22
13	20.58	32.63	52.11	83.05	131.60	209.79	263.74	333.07	419.58	529.63	668.20	843.54	1062.75	1254.67
14	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
15	17.83	28.28	45.16	71.98	114.05	181.82	228.57	288.66	363.64	459.02	579.11	731.07	921.05	1087.38
16	16.72	26.52	42.34	67.48	106.92	170.45	214.29	270.62	340.91	430.33	542.92	685.38	863.49	1019.42
17	15.74	24.96	39.85	63.51	100.63	160.43	201.68	254.70	320.86	405.01	510.98	645.06	812.69	959.45
18	14.86	23.57	37.63	59.98	95.04	151.52	190.48	240.55	303.03	382.51	482.59	609.23	767.54	906.15
19	14.08	22.33	35.65	56.83	90.04	143.54	180.45	227.89	287.08	362.38	457.19	577.16	727.15	858.46
20	13.38	21.21	33.87	53.98	85.54	136.36	171.43	216.49	272.73	344.26	434.33	548.30	690.79	815.53
22	12.16	19.28	30.79	49.08	77.76	123.97	155.84	196.81	247.93	312.97	394.85	498.46	627.99	741.39
24	11.15	17.68	28.23	44.99	71.28	113.64	142.86	180.41	227.27	286.89	361.94	456.92	575.66	679.61
26	10.29	16.32	26.05	41.53	65.80	104.90	131.87	166.53	209.79	264.82	334.10	421.77	531.38	627.33
28	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
30	8.92	14.14	22.58	35.99	57.03	90.91	114.29	144.33	181.82	229.51	289.56	365.54	460.53	543.69
32	8.36	13.26	21.17	33.74	53.46	85.23	107.14	135.31	170.45	215.16	271.46	342.69	431.74	509.71
34	7.87	12.48	19.92	31.76	50.32	80.21	100.84	127.35	160.43	202.51	255.49	322.53	406.35	479.73
36	7.43	11.78	18.82	29.99	47.52	75.76	95.24	120.27	151.52	191.26	241.30	304.61	383.77	453.07
38	7.04	11.16	17.83	28.41	45.02	71.77	90.23	113.94	143.54	181.19	228.60	288.58	363.57	429.23
40	6.69	10.61	16.94	26.99	42.77	68.18	85.71	108.25	136.36	172.13	217.17	274.15	345.39	407.77
42	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
44	6.08	9.64	15.40	24.54	38.88	61.98	77.92	98.41	123.97	156.48	197.42	249.23	314.00	370.70
46	5.82	9.22	14.73	23.47	37.19	59.29	74.53	94.13	118.58	149.68	188.84	238.39	300.34	354.58
48	5.57	8.84	14.11	22.49	35.64	56.82	71.43	90.21	113.64	143.44	180.97	228.46	287.83	339.81
50	5.35	8.48	13.55	21.59	34.22	54.55	68.57	86.60	109.09	137.70	173.73	219.32	276.32	326.21
52	5.14	8.16	13.03	20.76	32.90	52.45	65.93	83.27	104.90	132.41	167.05	210.89	265.69	313.67
54	4.95	7.86	12.54	19.99	31.68	50.51	63.49	80.18	101.01	127.50	160.86	203.08	255.85	302.05