

**SYSTEM VOLTAGE:** 120**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	955.41	1515.15	2419.35	3856.04	6109.98	9740.26	12244.90	15463.92	19480.52	24590.16	31023.78	39164.49	49342.11	58252.43
2	477.71	757.58	1209.68	1928.02	3054.99	4870.13	6122.45	7731.96	9740.26	12295.08	15511.89	19582.25	24671.05	29126.21
3	318.47	505.05	806.45	1285.35	2036.66	3246.75	4081.63	5154.64	6493.51	8196.72	10341.26	13054.83	16447.37	19417.48
4	238.85	378.79	604.84	964.01	1527.49	2435.06	3061.22	3865.98	4870.13	6147.54	7755.95	9791.12	12335.53	14563.11
5	191.08	303.03	483.87	771.21	1222.00	1948.05	2448.98	3092.78	3896.10	4918.03	6204.76	7832.90	9868.42	11650.49
6	159.24	252.53	403.23	642.67	1018.33	1623.38	2040.82	2577.32	3246.75	4098.36	5170.63	6527.42	8223.68	9708.74
7	136.49	216.45	345.62	550.86	872.85	1391.47	1749.27	2209.13	2782.93	3512.88	4431.97	5594.93	7048.87	8321.78
8	119.43	189.39	302.42	482.01	763.75	1217.53	1530.61	1932.99	2435.06	3073.77	3877.97	4895.56	6167.76	7281.55
9	106.16	168.35	268.82	428.45	678.89	1082.25	1360.54	1718.21	2164.50	2732.24	3447.09	4351.61	5482.46	6472.49
10	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
11	86.86	137.74	219.94	350.55	555.45	885.48	1113.17	1405.81	1770.96	2235.47	2820.34	3560.41	4485.65	5295.68
12	79.62	126.26	201.61	321.34	509.16	811.69	1020.41	1288.66	1623.38	2049.18	2585.32	3263.71	4111.84	4854.37
13	73.49	116.55	186.10	296.62	470.00	749.25	941.92	1189.53	1498.50	1891.55	2386.44	3012.65	3795.55	4480.96
14	68.24	108.23	172.81	275.43	436.43	695.73	874.64	1104.57	1391.47	1756.44	2215.98	2797.46	3524.44	4160.89
15	63.69	101.01	161.29	257.07	407.33	649.35	816.33	1030.93	1298.70	1639.34	2068.25	2610.97	3289.47	3883.50
16	59.71	94.70	151.21	241.00	381.87	608.77	765.31	966.49	1217.53	1536.89	1938.99	2447.78	3083.88	3640.78
17	56.20	89.13	142.31	226.83	359.41	572.96	720.29	909.64	1145.91	1446.48	1824.93	2303.79	2902.48	3426.61
18	53.08	84.18	134.41	214.22	339.44	541.13	680.27	859.11	1082.25	1366.12	1723.54	2175.81	2741.23	3236.25
19	50.28	79.74	127.33	202.95	321.58	512.65	644.47	813.89	1025.29	1294.22	1632.83	2061.29	2596.95	3065.92
20	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
22	43.43	68.87	109.97	175.27	277.73	442.74	556.59	702.91	885.48	1117.73	1410.17	1780.20	2242.82	2647.84
24	39.81	63.13	100.81	160.67	254.58	405.84	510.20	644.33	811.69	1024.59	1292.66	1631.85	2055.92	2427.18
26	36.75	58.28	93.05	148.31	235.00	374.63	470.96	594.77	749.25	945.78	1193.22	1506.33	1897.77	2240.48
28	34.12	54.11	86.41	137.72	218.21	347.87	437.32	552.28	695.73	878.22	1107.99	1398.73	1762.22	2080.44
30	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
32	29.86	47.35	75.60	120.50	190.94	304.38	382.65	483.25	608.77	768.44	969.49	1223.89	1541.94	1820.39
34	28.10	44.56	71.16	113.41	179.71	286.48	360.14	454.82	572.96	723.24	912.46	1151.90	1451.24	1713.31
36	26.54	42.09	67.20	107.11	169.72	270.56	340.14	429.55	541.13	683.06	861.77	1087.90	1370.61	1618.12
38	25.14	39.87	63.67	101.47	160.79	256.32	322.23	406.95	512.65	647.11	816.42	1030.64	1298.48	1532.96
40	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
42	22.75	36.08	57.60	91.81	145.48	231.91	291.55	368.19	463.82	585.48	738.66	932.49	1174.81	1386.96
44	21.71	34.44	54.99	87.64	138.86	221.37	278.29	351.45	442.74	558.87	705.09	890.10	1121.41	1323.92
46	20.77	32.94	52.59	83.83	132.83	211.74	266.19	336.17	423.49	534.57	674.43	851.40	1072.65	1266.36
48	19.90	31.57	50.40	80.33	127.29	202.92	255.10	322.16	405.84	512.30	646.33	815.93	1027.96	1213.59
50	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
52	18.37	29.14	46.53	74.15	117.50	187.31	235.48	297.38	374.63	472.89	596.61	753.16	948.89	1120.24
54	17.69	28.06	44.80	71.41	113.15	180.38	226.76	286.37	360.75	455.37	574.51	725.27	913.74	1078.75