

SYSTEM VOLTAGE: 24**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	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
2	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
3	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
4	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
5	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
6	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
7	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
8	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
9	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
10	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
11	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
12	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
13	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
14	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
15	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
16	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
17	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
18	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
19	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
20	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
22	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
24	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
26	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
28	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
30	4.46	7.07	11.29	17.99	28.51	45.45	57.14	72.16	90.91	114.75	144.78	182.77	230.26	271.84
32	4.18	6.63	10.58	16.87	26.73	42.61	53.57	67.65	85.23	107.58	135.73	171.34	215.87	254.85
34	3.93	6.24	9.96	15.88	25.16	40.11	50.42	63.67	80.21	101.25	127.74	161.27	203.17	239.86
36	3.72	5.89	9.41	15.00	23.76	37.88	47.62	60.14	75.76	95.63	120.65	152.31	191.89	226.54
38	3.52	5.58	8.91	14.21	22.51	35.89	45.11	56.97	71.77	90.60	114.30	144.29	181.79	214.61
40	3.34	5.30	8.47	13.50	21.38	34.09	42.86	54.12	68.18	86.07	108.58	137.08	172.70	203.88
42	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
44	3.04	4.82	7.70	12.27	19.44	30.99	38.96	49.20	61.98	78.24	98.71	124.61	157.00	185.35
46	2.91	4.61	7.36	11.74	18.60	29.64	37.27	47.06	59.29	74.84	94.42	119.20	150.17	177.29
48	2.79	4.42	7.06	11.25	17.82	28.41	35.71	45.10	56.82	71.72	90.49	114.23	143.91	169.90
50	2.68	4.24	6.77	10.80	17.11	27.27	34.29	43.30	54.55	68.85	86.87	109.66	138.16	163.11
52	2.57	4.08	6.51	10.38	16.45	26.22	32.97	41.63	52.45	66.20	83.53	105.44	132.84	156.83
54	2.48	3.93	6.27	10.00	15.84	25.25	31.75	40.09	50.51	63.75	80.43	101.54	127.92	151.02