

Wire Size	Distance	12V - 2A 24 Watts	24V - 2A 48 Watts	12V - 4A 48 Watts	24V - 4A 96 Watts	12V - 8.33A 100 Watts	24V - 8.33A 200 Watts	12V - 16.7A 200 Watts	24V - 16.7A 400 Watts	12V - 25A 300 Watts	24V - 25A 600 Watts
18 AWG	10 feet	11.74	23.7	11.49	22.8	10.94	23.9	9.87	21.96	8.81	N/A
	25 feet	11.36	23.3	10.72	21	9.34	21.34	N/A	18.91	N/A	N/A
	50 feet	10.72	22.7	9.45	18	N/A	18.6	N/A	10.1	N/A	N/A
	100 feet	9.45	19	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	200 feet	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
14 AWG	10 feet	11.90	23.01	11.80	23.60	11.58	23.58	11.16	23.20	10.75	22.75
	25 feet	11.75	23.70	11.49	22.80	10.95	23.96	9.89	22.00	8.84	20.85
	50 feet	11.49	23.50	10.99	21.60	9.90	21.91	7.78	19.96	5.69	17.71
	100 feet	10.99	23.01	9.98	19.40	7.79	19.80	N/A	N/A	N/A	N/A
	200 feet	9.98	21.98	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
12 AWG	10 feet	11.94	23.90	11.87	23.80	11.74	23.73	11.47	23.50	11.21	23.20
	25 feet	11.84	23.90	11.68	23.20	11.34	23.34	10.67	22.73	10.01	22.02
	50 feet	11.68	23.84	11.36	22.60	10.68	22.68	9.35	21.46	8.03	20.03
	100 feet	11.36	23.36	10.73	21.00	9.35	21.36	N/A	N/A	N/A	N/A
	200 feet	10.73	22.73	9.46	18.00	N/A	18.72	N/A	N/A	N/A	N/A
10 AWG	10 feet	11.96	23.96	11.92	23.80	11.83	23.83	11.67	23.68	11.50	23.50
	25 feet	11.90	23.90	11.80	23.60	11.53	23.58	11.17	23.20	10.75	22.76
	50 feet	11.80	23.90	11.60	23.00	11.17	23.17	10.33	22.40	9.50	21.50
	100 feet	11.60	23.60	11.20	22.20	10.34	22.34	8.66	20.81	N/A	19.01
	200 feet	11.20	23.20	10.40	20.40	N/A	N/A	N/A	N/A	N/A	N/A

**NOTE: THIS CHART IS INTENDED FOR QUICK REFERENCE ONLY. ALL VOLTAGE DROPS SHOULD BE RE-CALCULATED BY USER TO VERIFY DATA.
THIS CHART IS BASED ON ESTIMATIONS UNDER NORMAL CONDITIONS.
THE ACTUAL VOLTAGE DROP MAY VARY DEPENDING ON CONDITIONS OF WIRE, CONDUIT USED, INSULATION AND AMBIENT ENVIRONMENTAL TEMPERATURE.**