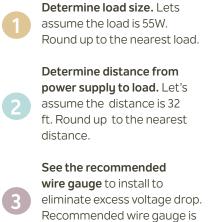
# Voltage Drop

## Voltage Drop Charts

For best performance and lumen output, ensure proper wire gauge is installed to compensate for voltage drop of low voltage circuits.

### 5W 10W 20W 30W 40W 50W 60W 0.42A 0.83A 1.67A 2.5A 3.33A 4.17A 5A 18 AWG 65 ft. 32 ft. 16 ft. 10 ft. 8 ft. 6 ft. 5 ft. 16 AWG 100 ft. 50 ft. 12 ft. 10 ft. 25 ft. 16 ft. 8 ft. 14 AWG 160 ft. 79 ft. 39 ft. 26 ft. 20 ft. 16 ft. 13 ft. 12 AWG 240 ft. 120 ft. 59 ft. 39 ft. 30 ft. 24 ft. 20 ft. 39 ft. 10 AWG 392 ft. 196 ft. 98 ft. 65 ft. 49 ft. 32 ft. . . .

### 12V Voltage Drop & Wire Length Distance Chart



10AWG.

## 24V Voltage Drop & Wire Length Distance Chart

	5W 0.21A	10W 0.42A	20W 0.83A	30W 1.25A	40W 1.67A	50W 2.08A	60W 2.5A	70W 2.92A	80W 3.33A	90W 3.75A	100W 4.17A
18 AWG	261 ft.	130 ft.	65 ft.	43 ft.	32 ft.	26 ft.	21ft.	18 ft.	16 ft.	14 ft.	13 ft.
16 AWG	401 ft.	200 ft.	100 ft.	66 ft.	50 ft.	40 ft.	33 ft.	28 ft.	25 ft.	22 ft.	20 ft.
14 AWG	639 ft.	319 ft.	160 ft.	106 ft.	79 ft.	63 ft.	53 ft.	45 ft.	39 ft.	35 ft.	31 ft.
12 AWG	959 ft.	479 ft.	240 ft.	160 ft.	120 ft.	95 ft.	79 ft.	68 ft.	59 ft.	53 ft.	47 ft.
10 AWG	1570 ft.	785 ft.	392 ft.	261 ft.	196 ft.	157 ft.	130 ft.	112 ft.	98 ft.	87 ft.	78 ft.