



Static Colors

Wire Gauge Chart

The correlation of wattage and distance is used to determine an appropriate wire gauge. On the chart below, locate where the wattage of your LED run intersects with the distance to your power supply.

Maximum cable length per wattage and wire gauge. Use this chart for single-color LED systems only.

24V POWER APPLICATIONS

Wattage	10AWG	12AWG	14AWG	16AWG	18AWG	20AWG	22AWG
20W	1449ft	912ft	573ft	360ft	227ft	142ft	89ft
40W	720ft	453ft	285ft	179ft	113ft	70ft	44ft
60W	481ft	303ft	190ft	120ft	75ft	47ft	29ft
80W	361ft	227ft	143ft	90ft	57ft	35ft	22ft
100W	288ft	182ft	114ft	72ft	45ft	28ft	18ft

CCT/RGB/RGBW

Wire Gauge Chart

CCT/RGB/RGBW

For determining minimum wire gauge requirements based on wire lengths.

Maximum cable length per wattage and wire gauge for 5% voltage drop.

24V POWER APPLICATIONS

Wattage	10AWG	12AWG	14AWG	16AWG	18AWG	20AWG	22AWG
20W	725ft	456ft	287ft	180ft	114ft	71ft	45ft
40W	360ft	227ft	143ft	90ft	57ft	35ft	22ft
60W	241ft	152ft	95ft	60ft	38ft	24ft	15ft
80W	181ft	114ft	72ft	45ft	29ft	18ft	11ft
100W	144ft	91ft	57ft	36ft	23ft	14ft	9ft